

## **Intellectual Property Rights (IPRs); Essential, or potentially Essential, IPRs notified to ETSI in respect of ETSI standards**

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**Reference**

RSR/IPRC-00004

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**Keywords**

IPR

**ETSI**

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# Contents

Foreword.....	4
1 Scope.....	5
2 Definitions and abbreviations.....	5
2.1 Definitions.....	5
2.2 Abbreviations.....	7
3 Notified IPRs.....	11
3.1 Notifications.....	11
3GPP.....	12
3GPP/AMR-WB.....	15
3GPP/EMS.....	34
BRAN.....	35
Cable Modem.....	37
DAB.....	39
DCS 1800.....	45
DECT.....	47
DECT/GSM.....	60
DTM.....	62
DVB.....	63
ERMES.....	66
GMR.....	69
GPRS.....	79
GSM.....	99
GSM/AMR-NB.....	270
GSM/TDMA.....	273
HDSL.....	301
HIPERLAN.....	302
HIPERLAN 2.....	303
ISDN.....	304
Lawful Interception.....	307
PLT.....	308
PSTN.....	310
RES.....	312
SDH.....	313
SDSL.....	316
STAG.....	318
Television systems.....	319
TETRA.....	320
TFTS.....	331
TIPHON.....	332
UMTS.....	333
UMTS/CDMA.....	448
VDSL.....	462
3.2 Other declarations.....	464
History.....	465

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## Foreword

This Special Report (SR) has been produced by ETSI on the basis of the ETSI IPR Policy, annex 6 of the ETSI Rules of Procedure. The ETSI IPR Policy can be found at <http://www.etsi.org/directives/Directives.htm#RoP>.

The present document identifies, patents and patent applications which have been notified to ETSI as being Essential, or Potentially Essential, to ETSI Standards.

The present document has been prepared on the basis of information received. ETSI has not checked the validity of the information, nor the relevance of the identified patents/patent applications to the ETSI Standards and cannot confirm, or deny, that the patents/patent applications are, in fact, Essential, or potentially Essential. No investigation, or IPR searches, have been carried out by ETSI and therefore no guarantee can be given concerning the existence of other IPRs which are, or may become, Essential.

It should also be noted that whilst ETSI members are not obliged to conduct IPR searches they are obliged to make reasonable efforts to inform ETSI of any Essential IPRs of which they become aware (see Article 4 of the ETSI IPR Policy).

The present document will be maintained by the ETSI Secretariat and further editions will be issued as, and when, necessary. Any errors in the information contained in the present document, or any additional information concerning Essential IPRs, of which readers of the present document become aware, should be notified to the ETSI Secretariat.

NOTE: The present document is also available at <http://www.etsi.org/IPR>.

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# 1 Scope

The present document identifies IPRs, particularly patents and patent applications, which have been notified to ETSI as being Essential, or potentially Essential, to ETSI Standards.

Unless otherwise specified, all IPRs included into the present database have been notified to ETSI, with an undertaking from the owner to grant licences according to the terms and conditions of article 6.1 of the ETSI IPR Policy, annex 6 of the ETSI Rules of Procedure. The ETSI IPR Policy can be found at <http://www.etsi.org/directives/Directives.htm#RoP>.

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## 2 Definitions and abbreviations

### 2.1 Definitions

The terms "ESSENTIAL", "IPR" and "STANDARD" given below are defined in the "Definitions" annex of the ETSI IPR Policy.

**ESSENTIAL:** as applied to IPR means that it is not possible on technical (but not commercial) grounds, taking into account normal technical practice and the state of the art generally available at the time of standardization, to make, sell, lease, otherwise dispose of, repair, use or operate EQUIPMENT or METHODS which comply with a STANDARD without infringing that IPR

For the avoidance of doubt in exceptional cases where a STANDARD can only be implemented by technical solutions, all of which are infringements of IPRs, all such IPRs shall be considered ESSENTIAL.

NOTE: In practical terms, the existence of an Essential IPR makes it necessary to have a licence in order to exploit the standard concerned.

**IPR:** shall mean any intellectual property right conferred by statute law including applications therefore other than trademarks

For the avoidance of doubt rights relating to get-up, confidential information, trade secrets or the like are excluded from the definition of IPR.

**STANDARD:** shall mean any standard adopted by ETSI including options therein or amended versions and shall include European Standards (ENs) (telecommunications series), ETSI Standards (ESs), Common Technical Regulations (CTRs) which are taken from ENs (telecommunications series) and including drafts of any of the foregoing, and documents made under the previous nomenclature, including ETSs, I-ETSs, parts of NETs and TBRs, the technical specifications of which are available to all MEMBERS, but not including any standards, or parts thereof, not made by ETSI

The date on which a STANDARD is considered to be adopted by ETSI for the purposes of this POLICY shall be the date on which the technical specification of that STANDARD was available to all MEMBERS.

The following definitions also apply:

**notified:** means any IPR information of which ETSI has been formally notified by the owner of the IPR or, any IPR information of which ETSI has become aware, pursuant to the IPR Policy

**IPR licensing declaration:** this is a declaration to the effect that the IPR owner declares that he is prepared to grant licences on fair, reasonable and non-discriminatory terms, in accordance with article 6.1 of the ETSI IPR Policy

**3GPP standards:** all standards issued by ETSI in relation to 3rd Generation Partnership Project (3GPP)  
[http://webapp.etsi.org/tbhomepage/TBDetails.asp?TB\\_ID=369&TB\\_NAME=3GPP](http://webapp.etsi.org/tbhomepage/TBDetails.asp?TB_ID=369&TB_NAME=3GPP)

**BRAN standards:** all standards issued by ETSI Project Broadband Radio Access Networks (BRAN)  
[http://webapp.etsi.org/tbhomepage/TBDetails.asp?TB\\_ID=287&TB\\_NAME=BRAN](http://webapp.etsi.org/tbhomepage/TBDetails.asp?TB_ID=287&TB_NAME=BRAN)

**DAB standards:** all standards issued by ETSI in relation to Digital Audio Broadcasting (DAB)  
<http://www.etsi.org/broadcast/dab.htm>

**DCS 1800 standards:** all standards issued by ETSI in relation to European Cellular Digital - Global System for Mobile Communication - DCS 1800 extensions

[http://webapp.etsi.org/tbhomepage/TBDetails.asp?TB\\_ID=369&TB\\_NAME=3GPP](http://webapp.etsi.org/tbhomepage/TBDetails.asp?TB_ID=369&TB_NAME=3GPP)

**DECT standards:** all standards issued by ETSI in relation to Digital European Cordless Telephone (DECT), also known as Digital Enhanced Cordless Telephone (DECT)

[http://webapp.etsi.org/tbhomepage/TBDetails.asp?TB\\_ID=19&TB\\_NAME=DECT](http://webapp.etsi.org/tbhomepage/TBDetails.asp?TB_ID=19&TB_NAME=DECT)

**DTM standards:** all standards issued by ETSI in relation to Dynamic Transfer Mode (DTM)

[http://webapp.etsi.org/tbhomepage/TBDetails.asp?TB\\_ID=437&TB\\_NAME=SPAN](http://webapp.etsi.org/tbhomepage/TBDetails.asp?TB_ID=437&TB_NAME=SPAN)

**DVB standards:** all standards issued by ETSI in relation to Digital Video Broadcasting (DVB)

<http://www.etsi.org/broadcast/dvb.htm>

**DECT/GSM interworking standards:** all standards issued by ETSI in relation to interworking between DECT and GSM

**ERMES standards:** all standards issued by ETSI in relation to European Radio Messaging System (ERMES)

[http://webapp.etsi.org/tbhomepage/TBDetails.asp?TB\\_ID=286&TB\\_NAME=ERM](http://webapp.etsi.org/tbhomepage/TBDetails.asp?TB_ID=286&TB_NAME=ERM)

**GPRS standards:** all standards issued by ETSI in relation to General Packet Radio Service (GPRS)

[http://webapp.etsi.org/tbhomepage/TBDetails.asp?TB\\_ID=369&TB\\_NAME=3GPP](http://webapp.etsi.org/tbhomepage/TBDetails.asp?TB_ID=369&TB_NAME=3GPP)

**GSM standards:** all standards issued by ETSI in relation to European Cellular Digital - Global System for Mobile Communication (GSM)

[http://webapp.etsi.org/tbhomepage/TBDetails.asp?TB\\_ID=369&TB\\_NAME=3GPP](http://webapp.etsi.org/tbhomepage/TBDetails.asp?TB_ID=369&TB_NAME=3GPP)

**HDSL standards:** all standards issued by ETSI in relation to High bit rate Digital Subscriber Line (HDSL)

[http://webapp.etsi.org/tbhomepage/TBDetails.asp?TB\\_ID=221&TB\\_NAME=TM](http://webapp.etsi.org/tbhomepage/TBDetails.asp?TB_ID=221&TB_NAME=TM)

**HIPERLAN standards:** all standards issued by ETSI in relation to High Performance Radio Local Area Network (HIPERLAN)

[http://webapp.etsi.org/tbhomepage/TBDetails.asp?TB\\_ID=287&TB\\_NAME=BRAN](http://webapp.etsi.org/tbhomepage/TBDetails.asp?TB_ID=287&TB_NAME=BRAN)

**ISDN standards:** all standards issued by ETSI in relation to Integrated Services Digital Network (ISDN)

[http://webapp.etsi.org/tbhomepage/TBDetails.asp?TB\\_ID=437&TB\\_NAME=SPAN](http://webapp.etsi.org/tbhomepage/TBDetails.asp?TB_ID=437&TB_NAME=SPAN)

**Lawful Interception (LI) standards:** all standards issued by ETSI in relation to Security Lawful Interception (SEC LI)

[http://webapp.etsi.org/tbhomepage/TBDetails.asp?TB\\_ID=503&TB\\_NAME=SEC+LI](http://webapp.etsi.org/tbhomepage/TBDetails.asp?TB_ID=503&TB_NAME=SEC+LI)

**PSTN standards:** all standards issued by ETSI in relation to Public Switched Telephone Network (PSTN)

[http://webapp.etsi.org/tbhomepage/TBDetails.asp?TB\\_ID=516&TB\\_NAME=AT](http://webapp.etsi.org/tbhomepage/TBDetails.asp?TB_ID=516&TB_NAME=AT)

**SDSL standards:** all standards issued by ETSI in relation to Symmetrical Digital Subscriber Line (SDSL)

[http://webapp.etsi.org/tbhomepage/TBDetails.asp?TB\\_ID=221&TB\\_NAME=TM](http://webapp.etsi.org/tbhomepage/TBDetails.asp?TB_ID=221&TB_NAME=TM)

**STAG standards:** all standards issued by ETSI in relation to Security Techniques Advisory Group (STAG)

[http://webapp.etsi.org/tbhomepage/TBDetails.asp?TB\\_ID=161&TB\\_NAME=SEC](http://webapp.etsi.org/tbhomepage/TBDetails.asp?TB_ID=161&TB_NAME=SEC)

**Television systems standards:** all standards issued by ETSI in relation to TV broadcasting systems

[http://webapp.etsi.org/tbhomepage/TBDetails.asp?TB\\_ID=92&TB\\_NAME=BROADCAST](http://webapp.etsi.org/tbhomepage/TBDetails.asp?TB_ID=92&TB_NAME=BROADCAST)

**TETRA standards:** all standards issued by ETSI in relation to Trans-European Trunked Radio (TETRA)

[http://webapp.etsi.org/tbhomepage/TBDetails.asp?TB\\_ID=218&TB\\_NAME=TETRA](http://webapp.etsi.org/tbhomepage/TBDetails.asp?TB_ID=218&TB_NAME=TETRA)

**TFTS standards:** all standards issued by ETSI in relation to Terrestrial Flight Telecommunication System (TFTS)

[http://webapp.etsi.org/TBHomepage/TBDetails.asp?TB\\_ID=286&TB\\_NAME=ERM](http://webapp.etsi.org/TBHomepage/TBDetails.asp?TB_ID=286&TB_NAME=ERM)

**TIPHON standards:** all standards issued by ETSI in relation to Telecommunications And Internet Protocol Harmonization Over Networks (TIPHON)

[http://webapp.etsi.org/tbhomepage/TBDetails.asp?TB\\_ID=291&TB\\_NAME=TIPHON](http://webapp.etsi.org/tbhomepage/TBDetails.asp?TB_ID=291&TB_NAME=TIPHON)

**UMTS standards:** all standards issued by ETSI in relation to Universal Mobile Telecommunications System (UMTS)

[http://webapp.etsi.org/tbhomepage/TBDetails.asp?TB\\_ID=369&TB\\_NAME=3GPP](http://webapp.etsi.org/tbhomepage/TBDetails.asp?TB_ID=369&TB_NAME=3GPP)

**VDSL standards:** all standards issued by ETSI in relation to Very high speed Digital Subscriber Line (VDSL)

[http://webapp.etsi.org/tbhomepage/TBDetails.asp?TB\\_ID=221&TB\\_NAME=TM](http://webapp.etsi.org/tbhomepage/TBDetails.asp?TB_ID=221&TB_NAME=TM)

## 2.2 Abbreviations

For the purposes of the present document, the following abbreviations apply:

AD	Andorra
AE	United Arab Emirates
AF	Afghanistan
AG	Antigua and Barbuda
AI	Anguilla
AL	Albania
AM	Armenia
AN	Netherlands Antilles
AO	Angola
AQ	Antartica
AR	Argentina
ARIPO	African Regional Intellectual Property Organization
AS	American Samoa
AT	Austria
AU	Australia
AW	Aruba
AZ	Azerbaijan
BA	Bosnia and Herzegovina
BB	Barbados
BD	Bangladesh
BE	Belgium
BF	Burkina Faso
BG	Bulgaria
BH	Bahrain
BI	Burundi
BJ	Benin
BM	Bermuda
BN	Brunei Darussalam
BO	Bolivia
BR	Brazil
BS	Bahamas
BT	Bhutan
BV	Bouvet Island
BW	Botswana
BY	Belarus
BZ	Belize
CA	Canada
CC	Cocos (Keeling) Islands
CF	Central African Republic
CG	Congo
CH	Switzerland
CI	Côte d'Ivoire
CK	Cook Islands
CL	Chile
CM	Cameroon
CN	China
CO	Colombia
CR	Costa Rica
CU	Cuba
CV	Cape Verde
CX	Christmas Island
CY	Cyprus
CZ	Czech Republic
DE	Germany
DJ	Djibouti
DK	Denmark
DM	Dominica

DO	Dominican Republic
DZ	Algeria
EC	Ecuador
EE	Estonia
EG	Egypt
EH	Western Sahara
EPC	European Patent Convention
EPO	European Patent Office
ER	Eritrea
ES	Spain
ET	Ethiopia
EU	European Union
FI	Finland
FJ	Fiji
FK	Falkland Islands (Malvinas)
FM	Micronesia (Feder. States Of)
FO	Faroe Islands
FR	France
FX	France, Metropolitan
GA	Gabon
GB	United Kingdom
GD	Grenada
GE	Georgia
GF	French Guiana
GH	Ghana
GI	Gibraltar
GL	Greenland
GM	Gambia
GN	Guinea
GP	Guadeloupe
GQ	Equatorial Guinea
GR	Greece
GS	So. Georgia And So. Sandwich
GT	Guatemala
GU	Guam
GW	Guinea-Bissau
GY	Guyana
HK	Hong Kong
HM	Heard And Mcdonald Islands
HN	Honduras
HR	Croatia
HT	Haiti
HU	Hungary
ID	Indonesia
IE	Ireland
IL	Israel
IN	India
IO	British Indian Ocean Territory
IPC	International Patent Convention
IQ	Iraq
IR	Iran (Islamic Republic Of)
IS	Iceland
IT	Italy
JM	Jamaica
JO	Jordan
JP	Japan
KE	Kenya
KG	Kyrgyzstan
KH	Cambodia
KI	Kiribati
KM	Comoros
KN	Saint Kitts And Nevis



KP	Korea, Dem. People's Rep. Of
KR	Korea, Republic Of
KW	Kuwait
KY	Cayman Islands
KZ	Kazakhstan
LA	Lao People's Dem. Rep.
LB	Lebanon
LC	Saint Lucia
LI	Liechtenstein
LK	Sri Lanka
LR	Liberia
LS	Lesotho
LT	Lithuania
LU	Luxembourg
LV	Latvia
LY	Libyan Arab Jamahiriya
MA	Morocco
MC	Monaco
MD	Moldova, Republic Of
MG	Madagascar
MH	Marshall Islands
MK	Macedonia
ML	Mali
MM	Myanmar
MN	Mongolia
MO	Macau
MP	Northern Mariana Islands
MQ	Martinique
MR	Mauritania
MS	Montserrat
MT	Malta
MU	Mauritius
MV	Maldives
MW	Malawi
MX	Mexico
MY	Malaysia
MZ	Mozambique
NA	Namibia
NC	New Caledonia
NE	Niger
NF	Norfolk Island
NG	Nigeria
NI	Nicaragua
NL	Netherlands
NO	Norway
NP	Nepal
NR	Nauru
NU	Niue
NZ	New Zealand
OM	Oman
PA	Panama
PCT	Patent Co-operation Treaty
PE	Peru
PF	French Polynesia
PG	Papua New Guinea
PH	Philippines
PK	Pakistan
PL	Poland
PM	Saint Pierre Et Miquelon
PN	Pitcairn
PR	Puerto Rico
PT	Portugal

PW	Palau
PY	Paraguay
QA	Qatar
RE	Réunion
RO	Romania
RU	Russian Federation
RW	Rwanda
SA	Saudi Arabia
SB	Solomon Islands
SC	Seychelles
SD	Sudan
SE	Sweden
SG	Singapore
SH	Saint Helena
SI	Slovenia
SJ	Svalbard And Jan Mayen
SK	Slovakia
SL	Sierra Leone
SM	San Marino
SN	Senegal
SO	Somalia
SR	Suriname
ST	Sao Tome And Principe
SV	El Salvador
SY	Syrian Arab Republic
SZ	Swaziland
TC	Turks And Caicos Islands
TD	Chad
TF	French Southern Territories
TG	Togo
TH	Thailand
TJ	Tajikistan
TK	Tokelau
TM	Turkmenistan
TN	Tunisia
TO	Tonga
TP	East Timor
TR	Turkey
TT	Trinidad And Tobago
TV	Tuvalu
TW	Taiwan, Province Of China
TZ	Tanzania, United Republic Of
UA	Ukraine
UG	Uganda
UM	U.S. Minor Outlying Islands
US	United States
UY	Uruguay
UZ	Uzbekistan
VA	Vatican City State
VC	Saint Vincent And Grenadines
VE	Venezuela
VG	Virgin Islands (British)
VI	Virgin Islands (U.S.)
VN	Viet Nam
VU	Vanuatu
WF	Wallis And Futuna Islands
WS	Samoa
YE	Yemen
YT	Mayotte
YU	Yugoslavia
ZA	South Africa
ZM	Zambia

ZR	Zaire
ZW	Zimbabwe

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## 3 Notified IPRs

ETSI has not undertaken any patent family searches in respect of the identified patents/patent applications. It should be assumed that, if any other corresponding patents, or patent applications exist, which are not listed in the present document, then licences in respect of such rights will not be covered by the Licensing Declarations.

The Licensing Declarations given for the IPRs listed in the present document may be made subject to the condition that those who seek licences agree to reciprocate.

### 3.1 Notifications

Essential, or potentially Essential, IPRs in respect of which a Notification followed by a Licensing Declaration has been given by the IPR owner and for which licences are available on fair, reasonable and non-discriminatory terms, in accordance with article 6.1 of the ETSI IPR Policy, annex 6 of the ETSI Rules of Procedure. The ETSI IPR Policy can be found at <http://www.etsi.org/directives/Directives.htm#RoP>.

NOTE: IPR Information statement and Licensing declaration forms can be found at <http://www.etsi.org/ipr>.

## 3GPP

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**Company name:** CCL/ITRI  
**Project:** 3GPP  
**Title:** A Code Management System and Method for CDMA Communication Networks  
**Country of registration:** TW  
**Application no.:** 88104305  
**Countries applicable:** TW  
**ETSI Deliverable:** 125 322  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Mitsubishi Electric Corporation  
**Project:** 3GPP  
**Title:** Data Conversion Apparatus and Data Conversion Method  
**Country of registration:** JP  
**Application no.:** PCT/JP96/02154  
**Countries applicable:** AU, CA, CN, JP, KR, NO, SG, US, BE, CH, DE, DK, ES, FI, FR, GB, IT, NL, SE  
**Notes:** This declaration (the DECLARATION) is given this 8th day of October 1999, by Suketaka Tachibana, General Manager, Corporate Licensing Department (the SIGNATORY), of Mitsubishi Electric Corporation to the EUROPEAN TELECOMMUNICATIONS STANDARDS INSTITUTE of Sophia Antipolis France (ETSI).

The SIGNATORY has notified ETSI that it is the proprietor of the IPRs listed in Appendix A and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed in Appendix A (the STANDARD).

The SIGNATORY and/or AFFILIATES hereby declare that they are prepared to grant irrevocable licenses under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

The construction, validity and performance of this DECLARATION shall be governed by the laws of France.

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**Company name:** CCL/ITRI  
**Project:** 3GPP  
**Title:** Data Transfer Method for Real Time Communications  
**Country of registration:** TW  
**Application no.:** 09/116,681  
**Countries applicable:** US  
**ETSI Deliverable:** 125 322  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Wi-Lan Inc.  
**Project:** 3GPP  
**Title:** Multicode Direct Sequence Spread Spectrum  
**Country of registration:** CA  
**Application no.:** 186,784  
**Patent no.:** 5,555,268  
**Countries applicable:** US  
**ETSI Deliverable:** n/a  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** CCL/ITRI  
**Project:** 3GPP  
**Title:** A Code Management System and Method for CDMA Communication Networks  
**Country of registration:** TW  
**Application no.:** 09/234,871  
**Countries applicable:** US  
**ETSI Deliverable:** 125 322  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** CCL/ITRI  
**Project:** 3GPP  
**Title:** Data Transfer Method for Real-Time Communications  
**Country of registration:** TW  
**Application no.:** 09/116,681  
**Countries applicable:** US  
**ETSI Deliverable:** 125 922  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** CCL/ITRI  
**Project:** 3GPP  
**Title:** Data Transfer Method for Real-Time Communications  
**Country of registration:** TW  
**Application no.:** 87103172  
**Patent no.:** 106088  
**Countries applicable:** TW  
**ETSI Deliverable:** 125 922  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** CCL/ITRI  
**Project:** 3GPP  
**Title:** A Code Management System and Method for CDMA Communication Networks  
**Country of registration:** TW  
**Application no.:** 09/234,871  
**Countries applicable:** TW  
**ETSI Deliverable:** 125 922  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** CCL/ITRI  
**Project:** 3GPP  
**Title:** A Code Management System and Method for CDMA Communication Networks  
**Country of registration:** TW  
**Application no.:** 88104305  
**Countries applicable:** US  
**ETSI Deliverable:** 125 922  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** CCL/ITRI  
**Project:** 3GPP  
**Title:** Data Transfer Method for Real Time Communications  
**Country of registration:** TW  
**Application no.:** 87103172  
**Patent no.:** 106088  
**Countries applicable:** TW  
**ETSI Deliverable:** 125 322  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

## 3GPP/AMR-WB

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**Company name:** Nokia Corporation  
**Project:** 3GPP/AMR-WB  
**Title:** Dynamic codebook for efficient speech coding based on algebraic codes  
**Country of registration:** US  
**Application no.:** 927528  
**Patent no.:** 5444816  
**ETSI Deliverable:** 3G TS 26.171 V5.X.Y; 3G TS 26.173 V5.X.Y; 3G TS 26.174 V5.X.Y; 3G TS 26.190 V5.X.Y; 3G TS 26.191 V5.X.Y; 3G TS 26.192 V5.X.Y; 3G TS 26.193 V5.X.Y; 3G TS 26.194 V5.X.Y; 3G TS 26.201 V5.X.Y; 3G TS 26.202 V5.X.Y  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** 3GPP/AMR-WB  
**Title:** Method for decreasing the frame error rate in data transmission in the form of data frames  
**Country of registration:** CN  
**Application no.:** 98106901.0  
**ETSI Deliverable:** 3G TS 26.171 V5.X.Y; 3G TS 26.173 V5.X.Y; 3G TS 26.174 V5.X.Y; 3G TS 26.190 V5.X.Y; 3G TS 26.191 V5.X.Y; 3G TS 26.192 V5.X.Y; 3G TS 26.193 V5.X.Y; 3G TS 26.194 V5.X.Y; 3G TS 26.201 V5.X.Y; 3G TS 26.202 V5.X.Y  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** 3GPP/AMR-WB  
**Title:** Method for decreasing the frame error rate in data transmission in the form of data frames  
**Country of registration:** FI  
**Application no.:** 971484  
**ETSI Deliverable:** 3G TS 26.171 V5.X.Y; 3G TS 26.173 V5.X.Y; 3G TS 26.174 V5.X.Y; 3G TS 26.190 V5.X.Y; 3G TS 26.191 V5.X.Y; 3G TS 26.192 V5.X.Y; 3G TS 26.193 V5.X.Y; 3G TS 26.194 V5.X.Y; 3G TS 26.201 V5.X.Y; 3G TS 26.202 V5.X.Y  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** 3GPP/AMR-WB  
**Title:** Method for decreasing the frame error rate in data transmission in the form of data frames  
**Country of registration:** DE  
**Application no.:** 19815597.2  
**ETSI Deliverable:** 3G TS 26.171 V5.X.Y; 3G TS 26.173 V5.X.Y; 3G TS 26.174 V5.X.Y; 3G TS 26.190 V5.X.Y; 3G TS 26.191 V5.X.Y; 3G TS 26.192 V5.X.Y; 3G TS 26.193 V5.X.Y; 3G TS 26.194 V5.X.Y; 3G TS 26.201 V5.X.Y; 3G TS 26.202 V5.X.Y  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** 3GPP/AMR-WB  
**Title:** Method for decreasing the frame error rate in data transmission in the form of data frames  
**Country of registration:** FR  
**Application no.:** 9804479  
**ETSI Deliverable:** 3G TS 26.171 V5.X.Y; 3G TS 26.173 V5.X.Y; 3G TS 26.174 V5.X.Y; 3G TS 26.190 V5.X.Y; 3G TS 26.191 V5.X.Y; 3G TS 26.192 V5.X.Y; 3G TS 26.193 V5.X.Y; 3G TS 26.194 V5.X.Y; 3G TS 26.201 V5.X.Y; 3G TS 26.202 V5.X.Y  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** 3GPP/AMR-WB  
**Title:** Method for decreasing the frame error rate in data transmission in the form of data frames  
**Country of registration:** GB  
**Application no.:** 9807608.6  
**ETSI Deliverable:** 3G TS 26.171 V5.X.Y; 3G TS 26.173 V5.X.Y; 3G TS 26.174 V5.X.Y; 3G TS 26.190 V5.X.Y; 3G TS 26.191 V5.X.Y; 3G TS 26.192 V5.X.Y; 3G TS 26.193 V5.X.Y; 3G TS 26.194 V5.X.Y; 3G TS 26.201 V5.X.Y; 3G TS 26.202 V5.X.Y  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** 3GPP/AMR-WB  
**Title:** Method for decreasing the frame error rate in data transmission in the form of data frames  
**Country of registration:** IN  
**Application no.:** 759/MAS/98  
**ETSI Deliverable:** 3G TS 26.171 V5.X.Y; 3G TS 26.173 V5.X.Y; 3G TS 26.174 V5.X.Y; 3G TS 26.190 V5.X.Y; 3G TS 26.191 V5.X.Y; 3G TS 26.192 V5.X.Y; 3G TS 26.193 V5.X.Y; 3G TS 26.194 V5.X.Y; 3G TS 26.201 V5.X.Y; 3G TS 26.202 V5.X.Y  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** 3GPP/AMR-WB  
**Title:** Algebraic codebook with signal selected pulse amplitude / position combinations for fast coding of speech  
**Country of registration:** GB  
**Application no.:** 9602391,6  
**ETSI Deliverable:** 3G TS 26.171 V5.X.Y; 3G TS 26.173 V5.X.Y; 3G TS 26.174 V5.X.Y; 3G TS 26.190 V5.X.Y; 3G TS 26.191 V5.X.Y; 3G TS 26.192 V5.X.Y; 3G TS 26.193 V5.X.Y; 3G TS 26.194 V5.X.Y; 3G TS 26.201 V5.X.Y; 3G TS 26.202 V5.X.Y  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** 3GPP/AMR-WB  
**Title:** Speech synthesizer employing post-processing for enhancing the quality of the synthesized speech  
**Country of registration:** US  
**Application no.:** 662991  
**Patent no.:** 5946651  
**ETSI Deliverable:** 3G TS 26.171 V5.X.Y; 3G TS 26.173 V5.X.Y; 3G TS 26.174 V5.X.Y; 3G TS 26.190 V5.X.Y; 3G TS 26.191 V5.X.Y; 3G TS 26.192 V5.X.Y; 3G TS 26.193 V5.X.Y; 3G TS 26.194 V5.X.Y; 3G TS 26.201 V5.X.Y; 3G TS 26.202 V5.X.Y  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.



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**Company name:** Nokia Corporation  
**Project:** 3GPP/AMR-WB  
**Title:** Algebraic codebook with signal selected pulse amplitude / position combinations for fast coding of speech  
**Country of registration:** FR  
**Application no.:** 9601426  
**Patent no.:** 2730336  
**ETSI Deliverable:** 3G TS 26.171 V5.X.Y; 3G TS 26.173 V5.X.Y; 3G TS 26.174 V5.X.Y; 3G TS 26.190 V5.X.Y; 3G TS 26.191 V5.X.Y; 3G TS 26.192 V5.X.Y; 3G TS 26.193 V5.X.Y; 3G TS 26.194 V5.X.Y; 3G TS 26.201 V5.X.Y; 3G TS 26.202 V5.X.Y  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** 3GPP/AMR-WB  
**Title:** Algebraic codebook with signal selected pulse amplitude / position combinations for fast coding of speech  
**Country of registration:** FI  
**Application no.:** 973241  
**ETSI Deliverable:** 3G TS 26.171 V5.X.Y; 3G TS 26.173 V5.X.Y; 3G TS 26.174 V5.X.Y; 3G TS 26.190 V5.X.Y; 3G TS 26.191 V5.X.Y; 3G TS 26.192 V5.X.Y; 3G TS 26.193 V5.X.Y; 3G TS 26.194 V5.X.Y; 3G TS 26.201 V5.X.Y; 3G TS 26.202 V5.X.Y  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** 3GPP/AMR-WB  
**Title:** Speech synthesizer employing post-processing for enhancing the quality of the synthesized speech  
**Country of registration:** RU  
**Application no.:** 98101107  
**ETSI Deliverable:** 3G TS 26.171 V5.X.Y; 3G TS 26.173 V5.X.Y; 3G TS 26.174 V5.X.Y; 3G TS 26.190 V5.X.Y; 3G TS 26.191 V5.X.Y; 3G TS 26.192 V5.X.Y; 3G TS 26.193 V5.X.Y; 3G TS 26.194 V5.X.Y; 3G TS 26.201 V5.X.Y; 3G TS 26.202 V5.X.Y  
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**Company name:** Nokia Corporation  
**Project:** 3GPP/AMR-WB  
**Title:** Dynamic codebook for efficient speech coding based on algebraic codes  
**Country of registration:** EPO  
**Application no.:** 90915956,8  
**Patent no.:** 516621  
**Countries applicable:** AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE  
**ETSI Deliverable:** 3G TS 26.171 V5.X.Y; 3G TS 26.173 V5.X.Y; 3G TS 26.174 V5.X.Y; 3G TS 26.190 V5.X.Y; 3G TS 26.191 V5.X.Y; 3G TS 26.192 V5.X.Y; 3G TS 26.193 V5.X.Y; 3G TS 26.194 V5.X.Y; 3G TS 26.201 V5.X.Y; 3G TS 26.202 V5.X.Y  
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**Company name:** Nokia Corporation  
**Project:** 3GPP/AMR-WB  
**Title:** Speech synthesizer employing post-processing for enhancing the quality of the synthesized speech  
**Country of registration:** ES  
**Application no.:** P9750009  
**ETSI Deliverable:** 3G TS 26.171 V5.X.Y; 3G TS 26.173 V5.X.Y; 3G TS 26.174 V5.X.Y; 3G TS 26.190 V5.X.Y; 3G TS 26.191 V5.X.Y; 3G TS 26.192 V5.X.Y; 3G TS 26.193 V5.X.Y; 3G TS 26.194 V5.X.Y; 3G TS 26.201 V5.X.Y; 3G TS 26.202 V5.X.Y  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** 3GPP/AMR-WB  
**Title:** Vector adaptative predictive coder for speech and audio  
**Country of registration:** US  
**Application no.:** 35615  
**Patent no.:** 4969192  
**ETSI Deliverable:** 3G TS 26.171 V5.X.Y; 3G TS 26.173 V5.X.Y; 3G TS 26.174 V5.X.Y; 3G TS 26.190 V5.X.Y; 3G TS 26.191 V5.X.Y; 3G TS 26.192 V5.X.Y; 3G TS 26.193 V5.X.Y; 3G TS 26.194 V5.X.Y; 3G TS 26.201 V5.X.Y; 3G TS 26.202 V5.X.Y  
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**Company name:** Nokia Corporation  
**Project:** 3GPP/AMR-WB  
**Title:** Vector adaptative predictive coder for speech and audio  
**Country of registration:** CA  
**Patent no.:** 1336454  
**ETSI Deliverable:** 3G TS 26.171 V5.X.Y; 3G TS 26.173 V5.X.Y; 3G TS 26.174 V5.X.Y; 3G TS 26.190 V5.X.Y; 3G TS 26.191 V5.X.Y; 3G TS 26.192 V5.X.Y; 3G TS 26.193 V5.X.Y; 3G TS 26.194 V5.X.Y; 3G TS 26.201 V5.X.Y; 3G TS 26.202 V5.X.Y  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** 3GPP/AMR-WB  
**Title:** Vector adaptative predictive coder for speech and audio  
**Country of registration:** EPO  
**Application no.:** 92108904,1  
**Patent no.:** 503684  
**Countries applicable:** DE, FR, GB, IT  
**ETSI Deliverable:** 3G TS 26.171 V5.X.Y; 3G TS 26.173 V5.X.Y; 3G TS 26.174 V5.X.Y; 3G TS 26.190 V5.X.Y; 3G TS 26.191 V5.X.Y; 3G TS 26.192 V5.X.Y; 3G TS 26.193 V5.X.Y; 3G TS 26.194 V5.X.Y; 3G TS 26.201 V5.X.Y; 3G TS 26.202 V5.X.Y  
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**Company name:** Nokia Corporation  
**Project:** 3GPP/AMR-WB  
**Title:** Vector adaptative predictive coder for speech and audio  
**Country of registration:** JP  
**Application no.:** 84973/1988  
**Patent no.:** 2887286  
**ETSI Deliverable:** 3G TS 26.171 V5.X.Y; 3G TS 26.173 V5.X.Y; 3G TS 26.174 V5.X.Y; 3G TS 26.190 V5.X.Y; 3G TS 26.191 V5.X.Y; 3G TS 26.192 V5.X.Y; 3G TS 26.193 V5.X.Y; 3G TS 26.194 V5.X.Y; 3G TS 26.201 V5.X.Y; 3G TS 26.202 V5.X.Y  
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**Company name:** Nokia Corporation  
**Project:** 3GPP/AMR-WB  
**Title:** Dynamic codebook for efficient speech coding based on algebraic codes  
**Country of registration:** CA  
**Application no.:** 2010830  
**Patent no.:** 2010930  
**ETSI Deliverable:** 3G TS 26.171 V5.X.Y; 3G TS 26.173 V5.X.Y; 3G TS 26.174 V5.X.Y; 3G TS 26.190 V5.X.Y; 3G TS 26.191 V5.X.Y; 3G TS 26.192 V5.X.Y; 3G TS 26.193 V5.X.Y; 3G TS 26.194 V5.X.Y; 3G TS 26.201 V5.X.Y; 3G TS 26.202 V5.X.Y  
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**Company name:** Nokia Corporation  
**Project:** 3GPP/AMR-WB  
**Title:** Speech synthesizer employing post-processing for enhancing the quality of the synthesized speech  
**Country of registration:** AU  
**Application no.:** 62309/96  
**Patent no.:** 714742  
**ETSI Deliverable:** 3G TS 26.171 V5.X.Y; 3G TS 26.173 V5.X.Y; 3G TS 26.174 V5.X.Y; 3G TS 26.190 V5.X.Y; 3G TS 26.191 V5.X.Y; 3G TS 26.192 V5.X.Y; 3G TS 26.193 V5.X.Y; 3G TS 26.194 V5.X.Y; 3G TS 26.201 V5.X.Y; 3G TS 26.202 V5.X.Y  
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**Company name:** Nokia Corporation  
**Project:** 3GPP/AMR-WB  
**Title:** Algebraic codebook with signal selected pulse amplitude / position combinations for fast coding of speech  
**Country of registration:** JP  
**Application no.:** 523852/96  
**ETSI Deliverable:** 3G TS 26.171 V5.X.Y; 3G TS 26.173 V5.X.Y; 3G TS 26.174 V5.X.Y; 3G TS 26.190 V5.X.Y; 3G TS 26.191 V5.X.Y; 3G TS 26.192 V5.X.Y; 3G TS 26.193 V5.X.Y; 3G TS 26.194 V5.X.Y; 3G TS 26.201 V5.X.Y; 3G TS 26.202 V5.X.Y  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** 3GPP/AMR-WB  
**Title:** Algebraic codebook with signal selected pulse amplitude / position combinations for fast coding of speech  
**Country of registration:** KR  
**Application no.:** 705372  
**ETSI Deliverable:** 3G TS 26.171 V5.X.Y; 3G TS 26.173 V5.X.Y; 3G TS 26.174 V5.X.Y; 3G TS 26.190 V5.X.Y; 3G TS 26.191 V5.X.Y; 3G TS 26.192 V5.X.Y; 3G TS 26.193 V5.X.Y; 3G TS 26.194 V5.X.Y; 3G TS 26.201 V5.X.Y; 3G TS 26.202 V5.X.Y  
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**Company name:** Nokia Corporation  
**Project:** 3GPP/AMR-WB  
**Title:** Algebraic codebook with signal selected pulse amplitude / position combinations for fast coding of speech  
**Country of registration:** MX  
**Application no.:** 975997  
**ETSI Deliverable:** 3G TS 26.171 V5.X.Y; 3G TS 26.173 V5.X.Y; 3G TS 26.174 V5.X.Y; 3G TS 26.190 V5.X.Y; 3G TS 26.191 V5.X.Y; 3G TS 26.192 V5.X.Y; 3G TS 26.193 V5.X.Y; 3G TS 26.194 V5.X.Y; 3G TS 26.201 V5.X.Y; 3G TS 26.202 V5.X.Y  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** 3GPP/AMR-WB  
**Title:** Algebraic codebook with signal selected pulse amplitude / position combinations for fast coding of speech  
**Country of registration:** MY  
**Application no.:** PI9600300  
**ETSI Deliverable:** 3G TS 26.171 V5.X.Y; 3G TS 26.173 V5.X.Y; 3G TS 26.174 V5.X.Y; 3G TS 26.190 V5.X.Y; 3G TS 26.191 V5.X.Y; 3G TS 26.192 V5.X.Y; 3G TS 26.193 V5.X.Y; 3G TS 26.194 V5.X.Y; 3G TS 26.201 V5.X.Y; 3G TS 26.202 V5.X.Y  
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**Company name:** Nokia Corporation  
**Project:** 3GPP/AMR-WB  
**Title:** Algebraic codebook with signal selected pulse amplitude / position combinations for fast coding of speech  
**Country of registration:** NO  
**Application no.:** 973472  
**ETSI Deliverable:** 3G TS 26.171 V5.X.Y; 3G TS 26.173 V5.X.Y; 3G TS 26.174 V5.X.Y; 3G TS 26.190 V5.X.Y; 3G TS 26.191 V5.X.Y; 3G TS 26.192 V5.X.Y; 3G TS 26.193 V5.X.Y; 3G TS 26.194 V5.X.Y; 3G TS 26.201 V5.X.Y; 3G TS 26.202 V5.X.Y  
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**Company name:** Nokia Corporation  
**Project:** 3GPP/AMR-WB  
**Title:** Algebraic codebook with signal selected pulse amplitude / position combinations for fast coding of speech  
**Country of registration:** RU  
**Application no.:** 97114804  
**ETSI Deliverable:** 3G TS 26.171 V5.X.Y; 3G TS 26.173 V5.X.Y; 3G TS 26.174 V5.X.Y; 3G TS 26.190 V5.X.Y; 3G TS 26.191 V5.X.Y; 3G TS 26.192 V5.X.Y; 3G TS 26.193 V5.X.Y; 3G TS 26.194 V5.X.Y; 3G TS 26.201 V5.X.Y; 3G TS 26.202 V5.X.Y  
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**Company name:** Nokia Corporation  
**Project:** 3GPP/AMR-WB  
**Title:** Algebraic codebook with signal selected pulse amplitude / position combinations for fast coding of speech  
**Country of registration:** ES  
**Application no.:** 9650025  
**ETSI Deliverable:** 3G TS 26.171 V5.X.Y; 3G TS 26.173 V5.X.Y; 3G TS 26.174 V5.X.Y; 3G TS 26.190 V5.X.Y; 3G TS 26.191 V5.X.Y; 3G TS 26.192 V5.X.Y; 3G TS 26.193 V5.X.Y; 3G TS 26.194 V5.X.Y; 3G TS 26.201 V5.X.Y; 3G TS 26.202 V5.X.Y  
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**Company name:** Nokia Corporation  
**Project:** 3GPP/AMR-WB  
**Title:** Algebraic codebook with signal selected pulse amplitude / position combinations for fast coding of speech  
**Country of registration:** SE  
**Application no.:** 9600437-9  
**ETSI Deliverable:** 3G TS 26.171 V5.X.Y; 3G TS 26.173 V5.X.Y; 3G TS 26.174 V5.X.Y; 3G TS 26.190 V5.X.Y; 3G TS 26.191 V5.X.Y; 3G TS 26.192 V5.X.Y; 3G TS 26.193 V5.X.Y; 3G TS 26.194 V5.X.Y; 3G TS 26.201 V5.X.Y; 3G TS 26.202 V5.X.Y  
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**Company name:** Nokia Corporation  
**Project:** 3GPP/AMR-WB  
**Title:** Algebraic codebook with signal selected pulse amplitude / position combinations for fast coding of speech  
**Country of registration:** IN  
**Application no.:** 198CAL96  
**ETSI Deliverable:** 3G TS 26.171 V5.X.Y; 3G TS 26.173 V5.X.Y; 3G TS 26.174 V5.X.Y; 3G TS 26.190 V5.X.Y; 3G TS 26.191 V5.X.Y; 3G TS 26.192 V5.X.Y; 3G TS 26.193 V5.X.Y; 3G TS 26.194 V5.X.Y; 3G TS 26.201 V5.X.Y; 3G TS 26.202 V5.X.Y  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** 3GPP/AMR-WB  
**Title:** Speech synthesizer employing post-processing for enhancing the quality of the synthesized speech  
**Country of registration:** GB  
**Application no.:** 9512284,2  
**Patent no.:** 714752  
**ETSI Deliverable:** 3G TS 26.171 V5.X.Y; 3G TS 26.173 V5.X.Y; 3G TS 26.174 V5.X.Y; 3G TS 26.190 V5.X.Y; 3G TS 26.191 V5.X.Y; 3G TS 26.192 V5.X.Y; 3G TS 26.193 V5.X.Y; 3G TS 26.194 V5.X.Y; 3G TS 26.201 V5.X.Y; 3G TS 26.202 V5.X.Y  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** 3GPP/AMR-WB  
**Title:** Speech synthesizer employing post-processing for enhancing the quality of the synthesized speech  
**Country of registration:** JP  
**Application no.:** 9-502809  
**ETSI Deliverable:** 3G TS 26.171 V5.X.Y; 3G TS 26.173 V5.X.Y; 3G TS 26.174 V5.X.Y; 3G TS 26.190 V5.X.Y; 3G TS 26.191 V5.X.Y; 3G TS 26.192 V5.X.Y; 3G TS 26.193 V5.X.Y; 3G TS 26.194 V5.X.Y; 3G TS 26.201 V5.X.Y; 3G TS 26.202 V5.X.Y  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** 3GPP/AMR-WB  
**Title:** Speech synthesizer employing post-processing for enhancing the quality of the synthesized speech  
**Country of registration:** BR  
**Application no.:** 9608479-0  
**ETSI Deliverable:** 3G TS 26.171 V5.X.Y; 3G TS 26.173 V5.X.Y; 3G TS 26.174 V5.X.Y; 3G TS 26.190 V5.X.Y; 3G TS 26.191 V5.X.Y; 3G TS 26.192 V5.X.Y; 3G TS 26.193 V5.X.Y; 3G TS 26.194 V5.X.Y; 3G TS 26.201 V5.X.Y; 3G TS 26.202 V5.X.Y  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** 3GPP/AMR-WB  
**Title:** Speech synthesizer employing post-processing for enhancing the quality of the synthesized speech  
**Country of registration:** CA  
**Application no.:** 2224688  
**ETSI Deliverable:** 3G TS 26.171 V5.X.Y; 3G TS 26.173 V5.X.Y; 3G TS 26.174 V5.X.Y; 3G TS 26.190 V5.X.Y; 3G TS 26.191 V5.X.Y; 3G TS 26.192 V5.X.Y; 3G TS 26.193 V5.X.Y; 3G TS 26.194 V5.X.Y; 3G TS 26.201 V5.X.Y; 3G TS 26.202 V5.X.Y  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** 3GPP/AMR-WB  
**Title:** Speech synthesizer employing post-processing for enhancing the quality of the synthesized speech  
**Country of registration:** CN  
**Application no.:** 96196226,7  
**ETSI Deliverable:** 3G TS 26.171 V5.X.Y; 3G TS 26.173 V5.X.Y; 3G TS 26.174 V5.X.Y; 3G TS 26.190 V5.X.Y; 3G TS 26.191 V5.X.Y; 3G TS 26.192 V5.X.Y; 3G TS 26.193 V5.X.Y; 3G TS 26.194 V5.X.Y; 3G TS 26.201 V5.X.Y; 3G TS 26.202 V5.X.Y  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** 3GPP/AMR-WB  
**Title:** Speech synthesizer employing post-processing for enhancing the quality of the synthesized speech  
**Country of registration:** EPO  
**Application no.:** 96920925,3  
**Countries applicable:** AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE  
**ETSI Deliverable:** 3G TS 26.171 V5.X.Y; 3G TS 26.173 V5.X.Y; 3G TS 26.174 V5.X.Y; 3G TS 26.190 V5.X.Y; 3G TS 26.191 V5.X.Y; 3G TS 26.192 V5.X.Y; 3G TS 26.193 V5.X.Y; 3G TS 26.194 V5.X.Y; 3G TS 26.201 V5.X.Y; 3G TS 26.202 V5.X.Y  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** 3GPP/AMR-WB  
**Title:** Depth-first algebraic codebook search for fast coding of speech  
**Country of registration:** AU  
**Application no.:** 47811/96  
**ETSI Deliverable:** 3G TS 26.171 V5.X.Y; 3G TS 26.173 V5.X.Y; 3G TS 26.174 V5.X.Y; 3G TS 26.190 V5.X.Y; 3G TS 26.191 V5.X.Y; 3G TS 26.192 V5.X.Y; 3G TS 26.193 V5.X.Y; 3G TS 26.194 V5.X.Y; 3G TS 26.201 V5.X.Y; 3G TS 26.202 V5.X.Y  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** 3GPP/AMR-WB  
**Title:** Speech synthesizer employing post-processing for enhancing the quality of the synthesized speech  
**Country of registration:** IN  
**Application no.:** 1054/MAS/96  
**ETSI Deliverable:** 3G TS 26.171 V5.X.Y; 3G TS 26.173 V5.X.Y; 3G TS 26.174 V5.X.Y; 3G TS 26.190 V5.X.Y; 3G TS 26.191 V5.X.Y; 3G TS 26.192 V5.X.Y; 3G TS 26.193 V5.X.Y; 3G TS 26.194 V5.X.Y; 3G TS 26.201 V5.X.Y; 3G TS 26.202 V5.X.Y  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** 3GPP/AMR-WB  
**Title:** Algebraic codebook with signal selected pulse amplitude / position combinations for fast coding of speech  
**Country of registration:** IT  
**Application no.:** UD96A000012  
**ETSI Deliverable:** 3G TS 26.171 V5.X.Y; 3G TS 26.173 V5.X.Y; 3G TS 26.174 V5.X.Y; 3G TS 26.190 V5.X.Y; 3G TS 26.191 V5.X.Y; 3G TS 26.192 V5.X.Y; 3G TS 26.193 V5.X.Y; 3G TS 26.194 V5.X.Y; 3G TS 26.201 V5.X.Y; 3G TS 26.202 V5.X.Y  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** 3GPP/AMR-WB  
**Title:** Algebraic codebook with signal selected pulse amplitude / position combinations for fast coding of speech  
**Country of registration:** HK  
**Application no.:** 98101406,9  
**ETSI Deliverable:** 3G TS 26.171 V5.X.Y; 3G TS 26.173 V5.X.Y; 3G TS 26.174 V5.X.Y; 3G TS 26.190 V5.X.Y; 3G TS 26.191 V5.X.Y; 3G TS 26.192 V5.X.Y; 3G TS 26.193 V5.X.Y; 3G TS 26.194 V5.X.Y; 3G TS 26.201 V5.X.Y; 3G TS 26.202 V5.X.Y  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** 3GPP/AMR-WB  
**Title:** Algebraic codebook with signal selected pulse amplitude / position combinations for fast coding of speech  
**Country of registration:** ZA  
**Application no.:** 96/0852  
**Patent no.:** 96/0852  
**ETSI Deliverable:** 3G TS 26.171 V5.X.Y; 3G TS 26.173 V5.X.Y; 3G TS 26.174 V5.X.Y; 3G TS 26.190 V5.X.Y; 3G TS 26.191 V5.X.Y; 3G TS 26.192 V5.X.Y; 3G TS 26.193 V5.X.Y; 3G TS 26.194 V5.X.Y; 3G TS 26.201 V5.X.Y; 3G TS 26.202 V5.X.Y  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** 3GPP/AMR-WB  
**Title:** Algebraic codebook with signal selected pulse amplitude / position combinations for fast coding of speech  
**Country of registration:** CA  
**Application no.:** 2210765  
**ETSI Deliverable:** 3G TS 26.171 V5.X.Y; 3G TS 26.173 V5.X.Y; 3G TS 26.174 V5.X.Y; 3G TS 26.190 V5.X.Y; 3G TS 26.191 V5.X.Y; 3G TS 26.192 V5.X.Y; 3G TS 26.193 V5.X.Y; 3G TS 26.194 V5.X.Y; 3G TS 26.201 V5.X.Y; 3G TS 26.202 V5.X.Y  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.



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**Company name:** Nokia Corporation  
**Project:** 3GPP/AMR-WB  
**Title:** Depth-first algebraic codebook search for fast coding of speech  
**Country of registration:** AR  
**Application no.:** P960101681  
**ETSI Deliverable:** 3G TS 26.171 V5.X.Y; 3G TS 26.173 V5.X.Y; 3G TS 26.174 V5.X.Y; 3G TS 26.190 V5.X.Y; 3G TS 26.191 V5.X.Y; 3G TS 26.192 V5.X.Y; 3G TS 26.193 V5.X.Y; 3G TS 26.194 V5.X.Y; 3G TS 26.201 V5.X.Y; 3G TS 26.202 V5.X.Y  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** 3GPP/AMR-WB  
**Title:** Method for decreasing the frame error rate in data transmission in the form of data frames  
**Country of registration:** JP  
**Application no.:** 10-098937  
**ETSI Deliverable:** 3G TS 26.171 V5.X.Y; 3G TS 26.173 V5.X.Y; 3G TS 26.174 V5.X.Y; 3G TS 26.190 V5.X.Y; 3G TS 26.191 V5.X.Y; 3G TS 26.192 V5.X.Y; 3G TS 26.193 V5.X.Y; 3G TS 26.194 V5.X.Y; 3G TS 26.201 V5.X.Y; 3G TS 26.202 V5.X.Y  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** 3GPP/AMR-WB  
**Title:** Depth-first algebraic codebook search for fast coding of speech  
**Country of registration:** US  
**Application no.:** 509525  
**Patent no.:** 5701392  
**ETSI Deliverable:** 3G TS 26.171 V5.X.Y; 3G TS 26.173 V5.X.Y; 3G TS 26.174 V5.X.Y; 3G TS 26.190 V5.X.Y; 3G TS 26.191 V5.X.Y; 3G TS 26.192 V5.X.Y; 3G TS 26.193 V5.X.Y; 3G TS 26.194 V5.X.Y; 3G TS 26.201 V5.X.Y; 3G TS 26.202 V5.X.Y  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** 3GPP/AMR-WB  
**Title:** Depth-first algebraic codebook search for fast coding of speech  
**Country of registration:** MX  
**Application no.:** 97/06885  
**ETSI Deliverable:** 3G TS 26.171 V5.X.Y; 3G TS 26.173 V5.X.Y; 3G TS 26.174 V5.X.Y; 3G TS 26.190 V5.X.Y; 3G TS 26.191 V5.X.Y; 3G TS 26.192 V5.X.Y; 3G TS 26.193 V5.X.Y; 3G TS 26.194 V5.X.Y; 3G TS 26.201 V5.X.Y; 3G TS 26.202 V5.X.Y  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** 3GPP/AMR-WB  
**Title:** Depth-first algebraic codebook search for fast coding of speech  
**Country of registration:** MY  
**Application no.:** PI9600844  
**ETSI Deliverable:** 3G TS 26.171 V5.X.Y; 3G TS 26.173 V5.X.Y; 3G TS 26.174 V5.X.Y; 3G TS 26.190 V5.X.Y; 3G TS 26.191 V5.X.Y; 3G TS 26.192 V5.X.Y; 3G TS 26.193 V5.X.Y; 3G TS 26.194 V5.X.Y; 3G TS 26.201 V5.X.Y; 3G TS 26.202 V5.X.Y  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** 3GPP/AMR-WB  
**Title:** Depth-first algebraic codebook search for fast coding of speech  
**Country of registration:** RU  
**Application no.:** 97116484  
**ETSI Deliverable:** 3G TS 26.171 V5.X.Y; 3G TS 26.173 V5.X.Y; 3G TS 26.174 V5.X.Y; 3G TS 26.190 V5.X.Y; 3G TS 26.191 V5.X.Y; 3G TS 26.192 V5.X.Y; 3G TS 26.193 V5.X.Y; 3G TS 26.194 V5.X.Y; 3G TS 26.201 V5.X.Y; 3G TS 26.202 V5.X.Y  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** 3GPP/AMR-WB  
**Title:** Algebraic codebook with signal selected pulse amplitude / position combinations for fast coding of speech  
**Country of registration:** US  
**Application no.:** 508801  
**Patent no.:** 5754976  
**ETSI Deliverable:** 3G TS 26.171 V5.X.Y; 3G TS 26.173 V5.X.Y; 3G TS 26.174 V5.X.Y; 3G TS 26.190 V5.X.Y; 3G TS 26.191 V5.X.Y; 3G TS 26.192 V5.X.Y; 3G TS 26.193 V5.X.Y; 3G TS 26.194 V5.X.Y; 3G TS 26.201 V5.X.Y; 3G TS 26.202 V5.X.Y  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** 3GPP/AMR-WB  
**Title:** Algebraic codebook with signal selected pulse amplitude / position combinations for fast coding of speech  
**Country of registration:** AR  
**Application no.:** 335305  
**ETSI Deliverable:** 3G TS 26.171 V5.X.Y; 3G TS 26.173 V5.X.Y; 3G TS 26.174 V5.X.Y; 3G TS 26.190 V5.X.Y; 3G TS 26.191 V5.X.Y; 3G TS 26.192 V5.X.Y; 3G TS 26.193 V5.X.Y; 3G TS 26.194 V5.X.Y; 3G TS 26.201 V5.X.Y; 3G TS 26.202 V5.X.Y  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** 3GPP/AMR-WB  
**Title:** Method for decreasing the frame error rate in data transmission in the form of data frames  
**Country of registration:** PCT  
**Application no.:** FI9800237  
**Countries applicable:** AU, CH, ES, KR  
**ETSI Deliverable:** 3G TS 26.171 V5.X.Y; 3G TS 26.173 V5.X.Y; 3G TS 26.174 V5.X.Y; 3G TS 26.190 V5.X.Y; 3G TS 26.191 V5.X.Y; 3G TS 26.192 V5.X.Y; 3G TS 26.193 V5.X.Y; 3G TS 26.194 V5.X.Y; 3G TS 26.201 V5.X.Y; 3G TS 26.202 V5.X.Y  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** 3GPP/AMR-WB  
**Title:** Algebraic codebook with signal selected pulse amplitude / position combinations for fast coding of speech  
**Country of registration:** BR  
**Application no.:** 9607026,9  
**ETSI Deliverable:** 3G TS 26.171 V5.X.Y; 3G TS 26.173 V5.X.Y; 3G TS 26.174 V5.X.Y; 3G TS 26.190 V5.X.Y; 3G TS 26.191 V5.X.Y; 3G TS 26.192 V5.X.Y; 3G TS 26.193 V5.X.Y; 3G TS 26.194 V5.X.Y; 3G TS 26.201 V5.X.Y; 3G TS 26.202 V5.X.Y  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** 3GPP/AMR-WB  
**Title:** Method for decreasing the frame error rate in data transmission in the form of data frames  
**Country of registration:** US  
**Application no.:** 09/057680  
**ETSI Deliverable:** 3G TS 26.171 V5.X.Y; 3G TS 26.173 V5.X.Y; 3G TS 26.174 V5.X.Y; 3G TS 26.190 V5.X.Y; 3G TS 26.191 V5.X.Y; 3G TS 26.192 V5.X.Y; 3G TS 26.193 V5.X.Y; 3G TS 26.194 V5.X.Y; 3G TS 26.201 V5.X.Y; 3G TS 26.202 V5.X.Y  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** 3GPP/AMR-WB  
**Title:** Algebraic codebook with signal selected pulse amplitude / position combinations for fast coding of speech  
**Country of registration:** CN  
**Application no.:** 96193095  
**ETSI Deliverable:** 3G TS 26.171 V5.X.Y; 3G TS 26.173 V5.X.Y; 3G TS 26.174 V5.X.Y; 3G TS 26.190 V5.X.Y; 3G TS 26.191 V5.X.Y; 3G TS 26.192 V5.X.Y; 3G TS 26.193 V5.X.Y; 3G TS 26.194 V5.X.Y; 3G TS 26.201 V5.X.Y; 3G TS 26.202 V5.X.Y  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** 3GPP/AMR-WB  
**Title:** Algebraic codebook with signal selected pulse amplitude / position combinations for fast coding of speech  
**Country of registration:** DE  
**Application no.:** 19604273,9  
**ETSI Deliverable:** 3G TS 26.171 V5.X.Y; 3G TS 26.173 V5.X.Y; 3G TS 26.174 V5.X.Y; 3G TS 26.190 V5.X.Y; 3G TS 26.191 V5.X.Y; 3G TS 26.192 V5.X.Y; 3G TS 26.193 V5.X.Y; 3G TS 26.194 V5.X.Y; 3G TS 26.201 V5.X.Y; 3G TS 26.202 V5.X.Y  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** 3GPP/AMR-WB  
**Title:** Algebraic codebook with signal selected pulse amplitude / position combinations for fast coding of speech  
**Country of registration:** EPO  
**Application no.:** 96900816,8  
**Countries applicable:** AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE  
**ETSI Deliverable:** 3G TS 26.171 V5.X.Y; 3G TS 26.173 V5.X.Y; 3G TS 26.174 V5.X.Y; 3G TS 26.190 V5.X.Y; 3G TS 26.191 V5.X.Y; 3G TS 26.192 V5.X.Y; 3G TS 26.193 V5.X.Y; 3G TS 26.194 V5.X.Y; 3G TS 26.201 V5.X.Y; 3G TS 26.202 V5.X.Y  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** VoiceAge Corp.  
**Project:** 3GPP/AMR-WB  
**Title:** A Method for Indexing Pulse Positions and Signs in Algebraic Codebooks for Efficient Coding of Wideband Signals  
**Country of registration:** CA  
**Application no.:** 2,327,041  
**ETSI Deliverable:** 3G TS 26.171 V5.X.Y; 3G TS 26.173 V5.X.Y; 3G TS 26.174 V5.X.Y; 3G TS 26.190 V5.X.Y; 3G TS 26.191 V5.X.Y; 3G TS 26.192 V5.X.Y; 3G TS 26.193 V5.X.Y; 3G TS 26.194 V5.X.Y; 3G TS 26.201 V5.X.Y; 3G TS 26.202 V5.X.Y  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above mentioned IPR and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above.  
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VoiceAge has stated to ETSI that licensing inquiries should be sent to: VoiceAge Corp., 750 Chemin Lucerne, Suite 250, Town of Mount-Royal, Québec H3R 2H6 Canada, to the attention of Mrs. Hélène JAY, IPR and Licensing Business Development. Phone: +1 (514) 737-4940 / Fax: +1 (514) 908-2037 / <http://www.voiceage.com>.

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**Company name:** VoiceAge Corp.  
**Project:** 3GPP/AMR-WB  
**Title:** Gain-smoothing Amplifier Device and Method in Codecs for Wideband Speech and Audio Signals  
**Country of registration:** PCT  
**Application no.:** PCT/CA00/01381  
**ETSI Deliverable:** 3G TS 26.171 V5.X.Y; 3G TS 26.173 V5.X.Y; 3G TS 26.174 V5.X.Y; 3G TS 26.190 V5.X.Y; 3G TS 26.191 V5.X.Y; 3G TS 26.192 V5.X.Y; 3G TS 26.193 V5.X.Y; 3G TS 26.194 V5.X.Y; 3G TS 26.201 V5.X.Y; 3G TS 26.202 V5.X.Y  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above mentioned IPR and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above.  
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**Company name:** VoiceAge Corp.  
**Project:** 3GPP/AMR-WB  
**Title:** High Frequency Content Recovering Method and Device for Oversampled Synthesized Wideband Signal  
**Country of registration:** PCT  
**Application no.:** PCT/CA99/00990  
**Countries applicable:** US, CA, DE, GB, FR, IT, ES, NL, CH, LI, BE, SE, AT, DK, FI, PT, GR, MC, IE, LU, CY, JP, CN, KR  
**ETSI Deliverable:** 3G TS 26.171 V5.X.Y; 3G TS 26.173 V5.X.Y; 3G TS 26.174 V5.X.Y; 3G TS 26.190 V5.X.Y; 3G TS 26.191 V5.X.Y; 3G TS 26.192 V5.X.Y; 3G TS 26.193 V5.X.Y; 3G TS 26.194 V5.X.Y; 3G TS 26.201 V5.X.Y; 3G TS 26.202 V5.X.Y  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above mentioned IPR and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above.  
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**Company name:** VoiceAge Corp.  
**Project:** 3GPP/AMR-WB  
**Title:** Periodicity Enhancement in Decoding Wideband Signals  
**Country of registration:** PCT  
**Application no.:** PCT/CA99/01009  
**Countries applicable:** US, CA, DE, GB, FR, IT, ES, NL, CH, LI, BE, SE, AT, DK, FI, PT, GR, MC, IE, LU, CY, JP, CN  
**ETSI Deliverable:** 3G TS 26.171 V5.X.Y; 3G TS 26.173 V5.X.Y; 3G TS 26.174 V5.X.Y; 3G TS 26.190 V5.X.Y; 3G TS 26.191 V5.X.Y; 3G TS 26.192 V5.X.Y; 3G TS 26.193 V5.X.Y; 3G TS 26.194 V5.X.Y; 3G TS 26.201 V5.X.Y; 3G TS 26.202 V5.X.Y  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above mentioned IPR and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above.  
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VoiceAge has stated to ETSI that licensing inquiries should be sent to: VoiceAge Corp., 750 Chemin Lucerne, Suite 250, Town of Mount-Royal, Québec H3R 2H6 Canada, to the attention of Mrs. Hélène JAY, IPR and Licensing Business Development. Phone: +1 (514) 737-4940 / Fax: +1 (514) 908-2037 / <http://www.voiceage.com>.

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**Company name:** VoiceAge Corp.  
**Project:** 3GPP/AMR-WB  
**Title:** A Method and Device for adaptive bandwidth pitch Search in Coding Wideband Signals  
**Country of registration:** PCT  
**Application no.:** PCT/CA99/01008  
**Countries applicable:** US, CA, MX, BR, DE, GB, RU, FR, IT, ES, NL, CH, LI, BE, SE, AT, NO, DK, FI, PT, GR, MC, IE, LU, CY, JP, CN, KR, HK, IN, MY, AU, ZA  
**ETSI Deliverable:** 3G TS 26.171 V5.X.Y; 3G TS 26.173 V5.X.Y; 3G TS 26.174 V5.X.Y; 3G TS 26.190 V5.X.Y; 3G TS 26.191 V5.X.Y; 3G TS 26.192 V5.X.Y; 3G TS 26.193 V5.X.Y; 3G TS 26.194 V5.X.Y; 3G TS 26.201 V5.X.Y; 3G TS 26.202 V5.X.Y  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above mentioned IPR and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above.  
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VoiceAge has stated to ETSI that licensing inquiries should be sent to: VoiceAge Corp., 750 Chemin Lucerne, Suite 250, Town of Mount-Royal, Québec H3R 2H6 Canada, to the attention of Mrs. Hélène JAY, IPR and Licensing Business Development. Phone: +1 (514) 737-4940 / Fax: +1 (514) 908-2037 / <http://www.voiceage.com>.

<b>Company name:</b>	VoiceAge Corp.
<b>Project:</b>	3GPP/AMR-WB
<b>Title:</b>	Perceptual Weighting Device and Method for Efficient Coding of Wideband Signals
<b>Country of registration:</b>	PCT
<b>Application no.:</b>	PCT/CA99/01010
<b>Countries applicable:</b>	US, CA, MX, BR, DE, GB, RU, FR, IT, ES, NL, CH, LI, BE, SE, AT, NO, DK, FI, PT, GR, MC, IE, LU, CY, JP, CN, KR, HK, IN, MY, AU, NZ, ZA
<b>ETSI Deliverable:</b>	3G TS 26.171 V5.X.Y; 3G TS 26.173 V5.X.Y; 3G TS 26.174 V5.X.Y; 3G TS 26.190 V5.X.Y; 3G TS 26.191 V5.X.Y; 3G TS 26.192 V5.X.Y; 3G TS 26.193 V5.X.Y; 3G TS 26.194 V5.X.Y; 3G TS 26.201 V5.X.Y; 3G TS 26.202 V5.X.Y
<b>Notes:</b>	<p>The SIGNATORY has notified ETSI that it is the proprietor of the above mentioned IPR and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above.</p> <p>The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.</p> <p>VoiceAge has stated to ETSI that licensing inquiries should be sent to: VoiceAge Corp., 750 Chemin Lucerne, Suite 250, Town of Mount-Royal, Québec H3R 2H6 Canada, to the attention of Mrs. H��l��ne JAY, IPR and Licensing Business Development. Phone: +1 (514) 737-4940 / Fax: +1 (514) 908-2037 / <a href="http://www.voiceage.com">http://www.voiceage.com</a>.</p>
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	3GPP/AMR-WB
<b>Title:</b>	Algebraic codebook with signal selected pulse amplitude / position combinations for fast coding of speech
<b>Country of registration:</b>	AU
<b>Application no.:</b>	44796/96
<b>ETSI Deliverable:</b>	3G TS 26.171 V5.X.Y; 3G TS 26.173 V5.X.Y; 3G TS 26.174 V5.X.Y; 3G TS 26.190 V5.X.Y; 3G TS 26.191 V5.X.Y; 3G TS 26.192 V5.X.Y; 3G TS 26.193 V5.X.Y; 3G TS 26.194 V5.X.Y; 3G TS 26.201 V5.X.Y; 3G TS 26.202 V5.X.Y
<b>Notes:</b>	<p>The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.</p>
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	3GPP/AMR-WB
<b>Title:</b>	Depth-first algebraic codebook search for fast coding of speech
<b>Country of registration:</b>	JP
<b>Application no.:</b>	527130/96
<b>ETSI Deliverable:</b>	3G TS 26.171 V5.X.Y; 3G TS 26.173 V5.X.Y; 3G TS 26.174 V5.X.Y; 3G TS 26.190 V5.X.Y; 3G TS 26.191 V5.X.Y; 3G TS 26.192 V5.X.Y; 3G TS 26.193 V5.X.Y; 3G TS 26.194 V5.X.Y; 3G TS 26.201 V5.X.Y; 3G TS 26.202 V5.X.Y
<b>Notes:</b>	<p>The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.</p>
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	3GPP/AMR-WB
<b>Title:</b>	Depth-first algebraic codebook search for fast coding of speech
<b>Country of registration:</b>	BR
<b>Application no.:</b>	PI9607144.3
<b>ETSI Deliverable:</b>	3G TS 26.171 V5.X.Y; 3G TS 26.173 V5.X.Y; 3G TS 26.174 V5.X.Y; 3G TS 26.190 V5.X.Y; 3G TS 26.191 V5.X.Y; 3G TS 26.192 V5.X.Y; 3G TS 26.193 V5.X.Y; 3G TS 26.194 V5.X.Y; 3G TS 26.201 V5.X.Y; 3G TS 26.202 V5.X.Y
<b>Notes:</b>	<p>The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.</p>

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**Company name:** Nokia Corporation  
**Project:** 3GPP/AMR-WB  
**Title:** Depth-first algebraic codebook search for fast coding of speech  
**Country of registration:** CA  
**Application no.:** 2213740  
**ETSI Deliverable:** 3G TS 26.171 V5.X.Y; 3G TS 26.173 V5.X.Y; 3G TS 26.174 V5.X.Y; 3G TS 26.190 V5.X.Y; 3G TS 26.191 V5.X.Y; 3G TS 26.192 V5.X.Y; 3G TS 26.193 V5.X.Y; 3G TS 26.194 V5.X.Y; 3G TS 26.201 V5.X.Y; 3G TS 26.202 V5.X.Y  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** 3GPP/AMR-WB  
**Title:** Depth-first algebraic codebook search for fast coding of speech  
**Country of registration:** CN  
**Application no.:** 96193196,5  
**ETSI Deliverable:** 3G TS 26.171 V5.X.Y; 3G TS 26.173 V5.X.Y; 3G TS 26.174 V5.X.Y; 3G TS 26.190 V5.X.Y; 3G TS 26.191 V5.X.Y; 3G TS 26.192 V5.X.Y; 3G TS 26.193 V5.X.Y; 3G TS 26.194 V5.X.Y; 3G TS 26.201 V5.X.Y; 3G TS 26.202 V5.X.Y  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** 3GPP/AMR-WB  
**Title:** Depth-first algebraic codebook search for fast coding of speech  
**Country of registration:** EPO  
**Application no.:** 96903854,6  
**Patent no.:** 516621  
**Countries applicable:** DE, ES, FR, GB, IT, SE  
**ETSI Deliverable:** 3G TS 26.171 V5.X.Y; 3G TS 26.173 V5.X.Y; 3G TS 26.174 V5.X.Y; 3G TS 26.190 V5.X.Y; 3G TS 26.191 V5.X.Y; 3G TS 26.192 V5.X.Y; 3G TS 26.193 V5.X.Y; 3G TS 26.194 V5.X.Y; 3G TS 26.201 V5.X.Y; 3G TS 26.202 V5.X.Y  
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**Company name:** Nokia Corporation  
**Project:** 3GPP/AMR-WB  
**Title:** Depth-first algebraic codebook search for fast coding of speech  
**Country of registration:** HK  
**Application no.:** 98100818,3  
**Patent no.:** HK1001846  
**ETSI Deliverable:** 3G TS 26.171 V5.X.Y; 3G TS 26.173 V5.X.Y; 3G TS 26.174 V5.X.Y; 3G TS 26.190 V5.X.Y; 3G TS 26.191 V5.X.Y; 3G TS 26.192 V5.X.Y; 3G TS 26.193 V5.X.Y; 3G TS 26.194 V5.X.Y; 3G TS 26.201 V5.X.Y; 3G TS 26.202 V5.X.Y  
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**Company name:** Nokia Corporation  
**Project:** 3GPP/AMR-WB  
**Title:** Depth-first algebraic codebook search for fast coding of speech  
**Country of registration:** KR  
**Application no.:** 97-706298  
**ETSI Deliverable:** 3G TS 26.171 V5.X.Y; 3G TS 26.173 V5.X.Y; 3G TS 26.174 V5.X.Y; 3G TS 26.190 V5.X.Y; 3G TS 26.191 V5.X.Y; 3G TS 26.192 V5.X.Y; 3G TS 26.193 V5.X.Y; 3G TS 26.194 V5.X.Y; 3G TS 26.201 V5.X.Y; 3G TS 26.202 V5.X.Y  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** 3GPP/AMR-WB  
**Title:** Depth-first algebraic codebook search for fast coding of speech  
**Country of registration:** IN  
**Application no.:** 422CAL96  
**ETSI Deliverable:** 3G TS 26.171 V5.X.Y; 3G TS 26.173 V5.X.Y; 3G TS 26.174 V5.X.Y; 3G TS 26.190 V5.X.Y; 3G TS 26.191 V5.X.Y; 3G TS 26.192 V5.X.Y; 3G TS 26.193 V5.X.Y; 3G TS 26.194 V5.X.Y; 3G TS 26.201 V5.X.Y; 3G TS 26.202 V5.X.Y  
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**Company name:** Nokia Corporation  
**Project:** 3GPP/AMR-WB  
**Title:** Methods for generating comfort noise during discontinuous transmission  
**Country of registration:** US  
**Application no.:** 08/965303  
**Patent no.:** 5960389  
**ETSI Deliverable:** 3G TS 26.171 V5.X.Y; 3G TS 26.173 V5.X.Y; 3G TS 26.174 V5.X.Y; 3G TS 26.190 V5.X.Y; 3G TS 26.191 V5.X.Y; 3G TS 26.192 V5.X.Y; 3G TS 26.193 V5.X.Y; 3G TS 26.194 V5.X.Y; 3G TS 26.201 V5.X.Y; 3G TS 26.202 V5.X.Y  
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**Company name:** Nokia Corporation  
**Project:** 3GPP/AMR-WB  
**Title:** Methods for generating comfort noise during discontinuous transmission  
**Country of registration:** AR  
**Application no.:** 970105360  
**ETSI Deliverable:** 3G TS 26.171 V5.X.Y; 3G TS 26.173 V5.X.Y; 3G TS 26.174 V5.X.Y; 3G TS 26.190 V5.X.Y; 3G TS 26.191 V5.X.Y; 3G TS 26.192 V5.X.Y; 3G TS 26.193 V5.X.Y; 3G TS 26.194 V5.X.Y; 3G TS 26.201 V5.X.Y; 3G TS 26.202 V5.X.Y  
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**Company name:** Nokia Corporation  
**Project:** 3GPP/AMR-WB  
**Title:** Methods for generating comfort noise during discontinuous transmission  
**Country of registration:** BR  
**Application no.:** PI9705747.9  
**ETSI Deliverable:** 3G TS 26.171 V5.X.Y; 3G TS 26.173 V5.X.Y; 3G TS 26.174 V5.X.Y; 3G TS 26.190 V5.X.Y; 3G TS 26.191 V5.X.Y; 3G TS 26.192 V5.X.Y; 3G TS 26.193 V5.X.Y; 3G TS 26.194 V5.X.Y; 3G TS 26.201 V5.X.Y; 3G TS 26.202 V5.X.Y  
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**Company name:** Nokia Corporation  
**Project:** 3GPP/AMR-WB  
**Title:** Method for decreasing the frame error rate in data transmission in the form of data frames  
**Country of registration:** IT  
**Application no.:** MI98A000766  
**Patent no.:** 1299063  
**ETSI Deliverable:** 3G TS 26.171 V5.X.Y; 3G TS 26.173 V5.X.Y; 3G TS 26.174 V5.X.Y; 3G TS 26.190 V5.X.Y; 3G TS 26.191 V5.X.Y; 3G TS 26.192 V5.X.Y; 3G TS 26.193 V5.X.Y; 3G TS 26.194 V5.X.Y; 3G TS 26.201 V5.X.Y; 3G TS 26.202 V5.X.Y  
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**Company name:** Nokia Corporation  
**Project:** 3GPP/AMR-WB  
**Title:** Methods for generating comfort noise during discontinuous transmission  
**Country of registration:** CN  
**Application no.:** 97126203.9  
**ETSI Deliverable:** 3G TS 26.171 V5.X.Y; 3G TS 26.173 V5.X.Y; 3G TS 26.174 V5.X.Y; 3G TS 26.190 V5.X.Y;  
 3G TS 26.191 V5.X.Y; 3G TS 26.192 V5.X.Y; 3G TS 26.193 V5.X.Y; 3G TS 26.194 V5.X.Y;  
 3G TS 26.201 V5.X.Y; 3G TS 26.202 V5.X.Y  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant  
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 Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs  
 remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** 3GPP/AMR-WB  
**Title:** Methods for generating comfort noise during discontinuous transmission  
**Country of registration:** JP  
**Application no.:** 9-313957  
**ETSI Deliverable:** 3G TS 26.171 V5.X.Y; 3G TS 26.173 V5.X.Y; 3G TS 26.174 V5.X.Y; 3G TS 26.190 V5.X.Y;  
 3G TS 26.191 V5.X.Y; 3G TS 26.192 V5.X.Y; 3G TS 26.193 V5.X.Y; 3G TS 26.194 V5.X.Y;  
 3G TS 26.201 V5.X.Y; 3G TS 26.202 V5.X.Y  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant  
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 Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs  
 remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** 3GPP/AMR-WB  
**Title:** Methods for generating comfort noise during discontinuous transmission  
**Country of registration:** EPO  
**Application no.:** 97309213.3  
**ETSI Deliverable:** 3G TS 26.171 V5.X.Y; 3G TS 26.173 V5.X.Y; 3G TS 26.174 V5.X.Y; 3G TS 26.190 V5.X.Y;  
 3G TS 26.191 V5.X.Y; 3G TS 26.192 V5.X.Y; 3G TS 26.193 V5.X.Y; 3G TS 26.194 V5.X.Y;  
 3G TS 26.201 V5.X.Y; 3G TS 26.202 V5.X.Y  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant  
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 Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs  
 remain ESSENTIAL.

## 3GPP/EMS

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**Company name:** Bijitec  
**Project:** 3GPP/EMS  
**Title:** System and method for compressing stroke-based handwriting and line drawing  
**Country of registration:** TH  
**Application no.:** 065426  
**Countries applicable:** TH  
**ETSI Deliverable:** TS 23.040  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Bijitec  
**Project:** 3GPP/EMS  
**Title:** System and method for compressing stroke-based handwriting and line drawing  
**Country of registration:** TW  
**Application no.:** 0078026  
**Countries applicable:** TW  
**ETSI Deliverable:** TS 23.040  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Bijitec  
**Project:** 3GPP/EMS  
**Title:** System and method for compressing stroke-based handwriting and line drawing  
**Country of registration:** CN  
**Application no.:** 99127048.7  
**Countries applicable:** CN  
**ETSI Deliverable:** TS 23.040  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Bijitec  
**Project:** 3GPP/EMS  
**Title:** System and method for compressing stroke-based handwriting and line drawing  
**Country of registration:** SG  
**Application no.:** PCT/SG01/00088  
**Countries applicable:** PCT  
**ETSI Deliverable:** TS 23.040  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

## BRAN

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**Company name:** Ascom Management AG  
**Project:** BRAN  
**Title:** Dynamic assignment of signalling virtual channels for wireless ATM systems  
**Country of registration:** US  
**Patent no.:** 5907542  
**Countries applicable:** US  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Ascom Management AG  
**Project:** BRAN  
**Title:** Dynamic connection mapping in wireless ATM systems  
**Country of registration:** US  
**Patent no.:** 5787077  
**Countries applicable:** US  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Ascom Management AG  
**Project:** BRAN  
**Title:** Dynamic assignment of signalling virtual channels for wireless ATM systems  
**Country of registration:** PCT  
**Patent no.:** 97/39595  
**Countries applicable:** CN, JP  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Ascom Management AG  
**Project:** BRAN  
**Title:** Dynamic assignment of signalling virtual channels for wireless ATM systems  
**Country of registration:** EPO  
**Application no.:** 1997/103854  
**Patent no.:** 813346  
**Countries applicable:** AT, BE, CH, DE, ES, FR, GB, IE, IT, LI  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Ascom Management AG  
**Project:** BRAN  
**Title:** Dynamic Connection Mapping in wireless ATM Systems  
**Country of registration:** PCT  
**Patent no.:** 97/47158  
**Countries applicable:** CN, JP, KR, CH, DE, DK, FI, FR, GB, GR, IT, LI, NL, SE  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Ascom Management AG  
**Project:** BRAN  
**Title:** Dynamic Connection Mapping in wireless ATM Systems  
**Country of registration:** EPO  
**Application no.:** 1997/918309  
**Patent no.:** 903054  
**Countries applicable:** CH, DE, DK, FI, FR, GB, GR, IT, LI, NL, SE  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

## Cable Modem

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**Company name:** 3COM Corporation  
**Project:** Cable Modem  
**Title:** Method and System for Provisioning Network Addresses in a Data-Over-cable System  
**Country of registration:** US  
**Application no.:** Pending  
**Countries applicable:** US  
**ETSI Deliverable:** ES 201 488 V1.1.1.  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** 3COM Corporation  
**Project:** Cable Modem  
**Title:** Method and System For Secure Cable Modem Initialization  
**Country of registration:** US  
**Application no.:** 09/018,756  
**Patent no.:** US 6,070,246  
**Countries applicable:** US  
**ETSI Deliverable:** ES 201 488 V1.1.1  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** 3COM Corporation  
**Project:** Cable Modem  
**Title:** Method for Using Host Configuration Messages to Maintain a Network Address Table in a Data-Over-Cable System  
**Country of registration:** US  
**Application no.:** Pending  
**Countries applicable:** US  
**ETSI Deliverable:** ES 201 488 V1.1.1  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** 3COM Corporation  
**Project:** Cable Modem  
**Title:** Method and System for Quality of Service Based Data Forwarding In A Data Over Cable System  
**Country of registration:** US  
**Application no.:** Pending  
**Countries applicable:** US  
**ETSI Deliverable:** ES 201 488 V1.1.1  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** 3COM Corporation  
**Project:** Cable Modem  
**Title:** Cable Modem With Dribble Grant Access System and Method  
**Country of registration:** US  
**Application no.:** Pending  
**Countries applicable:** US  
**ETSI Deliverable:** ES 201 488 V1.1.1  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** 3COM Corporation  
**Project:** Cable Modem  
**Title:** Method and System for Bundling Data In a Data Over Cable System  
**Country of registration:** US  
**Application no.:** Pending  
**Countries applicable:** US  
**ETSI Deliverable:** ES 201 488 V1.1.1  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Lucent Technologies Inc.  
**Project:** Cable Modem  
**Country of registration:** US  
**Application no.:** n/a  
**ETSI Deliverable:** ES 201 488 V1.1.1  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Motorola  
**Project:** Cable Modem  
**Country of registration:** US  
**Application no.:** n/a  
**ETSI Deliverable:** ES 201 488 V1.1.1  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** 3COM Corporation  
**Project:** Cable Modem  
**Title:** Method For Changing Type of Service in a Data Over Cable System  
**Country of registration:** US  
**Application no.:** Pending  
**Countries applicable:** US  
**ETSI Deliverable:** ES 201 488 V1.1.1  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** 3COM Corporation  
**Project:** Cable Modem  
**Title:** Method and System For Providing Quality of Service in a Data Cable System Using Configuration Protocol Messaging  
**Country of registration:** US  
**Application no.:** Pending  
**Countries applicable:** US  
**ETSI Deliverable:** ES 201 488 V1.1.1  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

## DAB

<b>Company name:</b>	Grundig E.M.V.
<b>Project:</b>	DAB
<b>Title:</b>	Process, Sender and Receiver for Transmitting and Selecting Local Radio Programs in a Common-wave Broadcasting Network
<b>Country of registration:</b>	DE
<b>Application no.:</b>	DE 44 24 778
<b>Countries applicable:</b>	DE
<b>Company name:</b>	Philips
<b>Project:</b>	DAB
<b>Title:</b>	Digital transmission system for transmitting an additional signal such as a surround signal
<b>Country of registration:</b>	n/a
<b>Application no.:</b>	(div of EP-0 402 973)
<b>Patent no.:</b>	EP-0 599 825
<b>Countries applicable:</b>	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, HK, SG, IN, US
<b>ETSI Deliverable:</b>	ETS 300 401
<b>Company name:</b>	Grundig E.M.V.
<b>Project:</b>	DAB
<b>Title:</b>	Verfahren und Schaltungsanordnung zur Realisierung eines Rückübertragungskanal vom Empfänger zum Sender in einem Gleichwellenne
<b>Country of registration:</b>	DE
<b>Application no.:</b>	DE 44 44 889
<b>Countries applicable:</b>	DE
<b>Company name:</b>	Philips
<b>Project:</b>	DAB
<b>Title:</b>	Digital transmission system using subband coding
<b>Country of registration:</b>	EPO
<b>Application no.:</b>	EP 89201408
<b>Patent no.:</b>	EP 0 400 755
<b>Countries applicable:</b>	AR, AU, BR, CA, CH, CN, CZ, DE, DK, ES, FI, FR, GB, HK, HU, IN, IT, JP, KR, MX, MY, PL, PT, RU, SE, SG, SK, TW, UA, US
<b>ETSI Deliverable:</b>	ETS 300 401
<b>Company name:</b>	Télédiffusion de France
<b>Project:</b>	DAB
<b>Title:</b>	Digital transmission system using subband coding
<b>Country of registration:</b>	EPO
<b>Application no.:</b>	EP 89201408
<b>Patent no.:</b>	EP 0 400 755
<b>Countries applicable:</b>	AR, AU, BR, CA, CH, CN, CZ, DE, DK, ES, FI, FR, GB, HK, HU, IN, IT, JP, KR, MX, MY, PL, PT, RU, SE, SG, SK, TW, UA, US
<b>ETSI Deliverable:</b>	ETS 300 401
<b>Company name:</b>	Philips
<b>Project:</b>	DAB
<b>Title:</b>	Digital transmission system, transmitter and receiver for use in the transmission system, and record carrier obtained by means of the transmitter in the form of a recording device
<b>Country of registration:</b>	NL
<b>Application no.:</b>	NL 89 014023
<b>Patent no.:</b>	EP-0 402 973
<b>Countries applicable:</b>	AR, AT, AU, BE, BR, CA, CH, CN, CZ, DE, DK, ES, FR, GB, GR, HK, HU, IN, IT, JP, KR, LU, MX, MY, NL, PL, RU, SE, SG, SI, SK, TW, UA, US
<b>ETSI Deliverable:</b>	ETS 300 401
<b>Company name:</b>	Télédiffusion de France
<b>Project:</b>	DAB
<b>Title:</b>	Digital transmission system for transmitting an additional signal such as a surround signal
<b>Country of registration:</b>	n/a
<b>Application no.:</b>	(div of EP-0 402 973)
<b>Patent no.:</b>	EP-0 599 825
<b>Countries applicable:</b>	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, HK, SG, IN, US
<b>ETSI Deliverable:</b>	ETS 300 401

<b>Company name:</b>	IRT
<b>Project:</b>	DAB
<b>Title:</b>	Digital transmission system for transmitting an additional signal such as a surround signal
<b>Country of registration:</b>	n/a
<b>Application no.:</b>	(div of EP-0 402 973)
<b>Patent no.:</b>	EP-0 599 825
<b>Countries applicable:</b>	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, HK, SG, IN, US
<b>ETSI Deliverable:</b>	ETS 300 401
<b>Company name:</b>	Grundig E.M.V.
<b>Project:</b>	DAB
<b>Title:</b>	Process, Sender and Receiver for Transmitting and Selecting Local Radio Programs in a Common-wave Broadcasting Network
<b>Country of registration:</b>	PCT
<b>Application no.:</b>	PCT/EP95/02751
<b>Patent no.:</b>	WO 96/02988
<b>Countries applicable:</b>	AU, BR, CA, CN, CZ, FI, JP, KR, MX, NO, PL, US, EPO
<b>Company name:</b>	Grundig E.M.V.
<b>Project:</b>	DAB
<b>Title:</b>	Gleichwellennetze und Empfänger zum Durchführen der empfangsseitigen Massnahmen
<b>Country of registration:</b>	EPO
<b>Application no.:</b>	HEI-5-169296
<b>ETSI Deliverable:</b>	ETS 300 401
<b>Company name:</b>	Grundig E.M.V.
<b>Project:</b>	DAB
<b>Title:</b>	Method for the Adaptive Assignment of the Transmission Capacity of a Transmission Channel
<b>Country of registration:</b>	DE
<b>Application no.:</b>	DE 44 25 973
<b>Countries applicable:</b>	DE
<b>Company name:</b>	Grundig E.M.V.
<b>Project:</b>	DAB
<b>Title:</b>	Method for the Adaptive Assignment of the Transmission Capacity of a Transmission Channel
<b>Country of registration:</b>	PCT
<b>Application no.:</b>	PCT/EP95/02853
<b>Patent no.:</b>	WO 96/03841
<b>Countries applicable:</b>	AU, BR, CA, CN, CZ, FI, JP, KR, MX, NO, PL, US, EPO
<b>Company name:</b>	Grundig E.M.V.
<b>Project:</b>	DAB
<b>Title:</b>	Verfahren und Schaltungsanordnung zum Einfügen von Daten in ein Gleichwellenübertragungssignal
<b>Country of registration:</b>	DE
<b>Application no.:</b>	DE 43 41 211
<b>Countries applicable:</b>	DE
<b>Company name:</b>	Grundig E.M.V.
<b>Project:</b>	DAB
<b>Title:</b>	Verfahren und Schaltungsanordnung zum Einfügen von Daten in ein Gleichwellenübertragungssignal
<b>Country of registration:</b>	EPO
<b>Application no.:</b>	94118808.8
<b>Patent no.:</b>	EP 0 656 702 A1
<b>Countries applicable:</b>	AT, BE, CH, DE, FR, GB, IT, LI, PT
<b>Company name:</b>	Grundig E.M.V.
<b>Project:</b>	DAB
<b>Title:</b>	Verfahren und Schaltungsanordnung zur Bestimmung des geographischen Standortes eines Empfängers in einem Gleichwellennetz
<b>Country of registration:</b>	DE
<b>Application no.:</b>	DE 42 23 194
<b>Countries applicable:</b>	DE



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**Company name:** Grundig E.M.V.  
**Project:** DAB  
**Title:** Procedure for the Identification of Transmitter or Region in Common-wave Broadcasting Network  
**Country of registration:** DE  
**Application no.:** DE 41 02 408  
**Countries applicable:** DE

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**Company name:** Grundig E.M.V.  
**Project:** DAB  
**Title:** Procedure for the Identification of Transmitter or Region in Common-wave Broadcasting Networks  
**Country of registration:** PCT  
**Application no.:** WO 92/13403  
**Countries applicable:** AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, JP, LU, MC, NL, SZ, US

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**Company name:** Telefunken Sendertechnik GmbH  
**Project:** DAB  
**Title:** Verfahren und Anordnung zur Messung der Trägerfrequenzablage in einem Mehrkanalübertragungssystem  
**Country of registration:** DE  
**Application no.:** P 41 28 713  
**Patent no.:** EP 0529 421  
**Countries applicable:** AT, BE, CH, DE, FR, GB, GR, IT, LI, LU, MC, NL, PT, SE, US  
**ETSI Deliverable:** ETS 300 401

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**Company name:** Télédiffusion de France  
**Project:** DAB  
**Title:** Digital transmission system, transmitter and receiver for use in the transmission system, and record carrier obtained by means of the transmitter in the form of a recording device  
**Country of registration:** NL  
**Application no.:** NL 89 014023  
**Patent no.:** EP-0 402 973  
**Countries applicable:** AR, AT, AU, BE, BR, CA, CH, CN, CZ, DE, DK, ES, FR, GB, GR, HK, HU, IN, IT, JP, KR, LU, MX, MY, NL, PL, RU, SE, SG, SI, SK, TW, UA, US  
**ETSI Deliverable:** ETS 300 401

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**Company name:** France Telecom  
**Project:** DAB  
**Title:** Digital transmission system using subband coding  
**Country of registration:** EPO  
**Application no.:** EP 89201408  
**Patent no.:** EP 0 400 755  
**Countries applicable:** AR, AU, BR, CA, CH, CN, CZ, DE, DK, ES, FI, FR, GB, HK, HU, IN, IT, JP, KR, MX, MY, PL, PT, RU, SE, SG, SK, TW, UA, US  
**ETSI Deliverable:** ETS 300 401

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**Company name:** Grundig E.M.V.  
**Project:** DAB  
**Title:** Verfahren und Schaltungsanordnung zur digitalen Rahmensynchronisation  
**Country of registration:** EPO  
**Application no.:** 96100540.4  
**Patent no.:** EP 0 670 643 A1  
**Countries applicable:** AT, BE, DE, CH, ES, FR, GB, IT, LI, LU, NL, PT, SE

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**Company name:** Grundig E.M.V.  
**Project:** DAB  
**Title:** Verfahren und Schaltungsanordnung zur digitalen Rahmensynchronisation  
**Country of registration:** DE  
**Application no.:** DE 44 05 752  
**Countries applicable:** DE

<b>Company name:</b>	Grundig E.M.V.
<b>Project:</b>	DAB
<b>Title:</b>	Verfahren zur Übertragung regional unterschiedlicher Informationen in Gleichwellennetze
<b>Country of registration:</b>	EPO
<b>Application no.:</b>	93108160.8
<b>Patent no.:</b>	EP 0 580 976
<b>Countries applicable:</b>	AT, BE, DE, FR, GB, IT
<b>ETSI Deliverable:</b>	ETS 300 401
<b>Company name:</b>	Grundig E.M.V.
<b>Project:</b>	DAB
<b>Title:</b>	Verfahren zur Übertragung regional unterschiedlicher Informationen in Gleichwellennetze
<b>Country of registration:</b>	DE
<b>Application no.:</b>	DE 42 22 877
<b>Countries applicable:</b>	DE
<b>ETSI Deliverable:</b>	ETS 300 401
<b>Company name:</b>	Télédiffusion de France
<b>Project:</b>	DAB
<b>Title:</b>	Method and installation for digital communication, particularly between an towards moving vehicles
<b>Country of registration:</b>	PCT
<b>Application no.:</b>	PCT/EP-87/00346
<b>Patent no.:</b>	WO-88/00417
<b>Countries applicable:</b>	FR, DE, GB, IT, NL, SE, US, JP
<b>ETSI Deliverable:</b>	ETS 300 401
<b>Company name:</b>	Télédiffusion de France
<b>Project:</b>	DAB
<b>Title:</b>	Procédé de diffusion de données numériques, notamment pour la radiodiffusion à haut débit vers des mobiles à entrelacement temps-fréquence et synchronisation analogique
<b>Country of registration:</b>	FR
<b>Application no.:</b>	FR 88 15216 (=EP0369917)
<b>Patent no.:</b>	FR-2 639 495
<b>Countries applicable:</b>	FR, DE, ES, GB, IT, NL, US
<b>ETSI Deliverable:</b>	ETS 300 401
<b>Company name:</b>	Télédiffusion de France
<b>Project:</b>	DAB
<b>Title:</b>	Procédé de diffusion de données numériques, notamment pour la radiodiffusion à haut débit vers des mobiles à entrelacement temps-fréquence et synchronisation analogique
<b>Country of registration:</b>	EPO
<b>Application no.:</b>	93 116 353.9 (div of EP0369371)
<b>Patent no.:</b>	EP 0 600 193
<b>Countries applicable:</b>	FR, ES, GB, IT, NL
<b>ETSI Deliverable:</b>	ETS 300 401
<b>Company name:</b>	Télédiffusion de France
<b>Project:</b>	DAB
<b>Title:</b>	Dispositif de transmission de données numériques à au moins deux niveaux de protection, et dispositif de réception correspondant
<b>Country of registration:</b>	FR
<b>Application no.:</b>	FR 90 03927
<b>Patent no.:</b>	FR-2 660 131
<b>Countries applicable:</b>	FR, GB, DE, US
<b>ETSI Deliverable:</b>	ETS 300 401
<b>Company name:</b>	France Telecom
<b>Project:</b>	DAB
<b>Title:</b>	Digital transmission system for transmitting an additional signal such as a surround signal
<b>Country of registration:</b>	n/a
<b>Application no.:</b>	(div of EP-0 402 973)
<b>Patent no.:</b>	EP-0 599 825
<b>Countries applicable:</b>	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, HK, SG, IN, US
<b>ETSI Deliverable:</b>	ETS 300 401

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**Company name:** France Telecom  
**Project:** DAB  
**Title:** Procédé de diffusion de données numériques, notamment pour la radiodiffusion à haut débit vers des mobiles à entrelacement temps-fréquence et aide à l'acquisition de la commande automatique de fréquence, et récepteur correspondant

**Country of registration:** FR  
**Application no.:** FR 90 01492  
**Patent no.:** FR-2 658 017  
**Countries applicable:** FR, GB, DE, US  
**ETSI Deliverable:** ETS 300 401

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**Company name:** Télédiffusion de France  
**Project:** DAB  
**Title:** Procédé de diffusion de données numériques, notamment pour la radiodiffusion à haut débit vers des mobiles à entrelacement temps-fréquence et aide à l'acquisition de la commande automatique de fréquence, et récepteur correspondant

**Country of registration:** FR  
**Application no.:** FR 90 01492  
**Patent no.:** FR-2 658 017  
**Countries applicable:** FR, GB, DE, US  
**ETSI Deliverable:** ETS 300 401

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**Company name:** France Telecom  
**Project:** DAB  
**Title:** Digital transmission system, transmitter and receiver for use in the transmission system, and record carrier obtained by means of the transmitter in the form of a recording device

**Country of registration:** NL  
**Application no.:** NL 89 014023  
**Patent no.:** EP-0 402 973  
**Countries applicable:** AR, AT, AU, BE, BR, CA, CH, CN, CZ, DE, DK, ES, FR, GB, GR, HK, HU, IN, IT, JP, KR, LU, MX, MY, NL, PL, RU, SE, SG, SI, SK, TW, UA, US  
**ETSI Deliverable:** ETS 300 401

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**Company name:** Telefunken Sendertechnik GmbH  
**Project:** DAB  
**Title:** Verfahren zur digitalen Datenübertragung im Nullsymbol des COFDM-Modulationsverfahrens

**Country of registration:** DE  
**Application no.:** P 41 38 770  
**Patent no.:** EP 0614 584  
**Countries applicable:** DE, FR, GB, IT, ES, SE, US  
**ETSI Deliverable:** ETS 300 401

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**Company name:** France Telecom  
**Project:** DAB  
**Title:** Dispositif de transmission de données numériques à au moins deux niveaux de protection, et dispositif de réception correspondant

**Country of registration:** FR  
**Application no.:** FR 90 03927  
**Patent no.:** FR-2 660 131  
**Countries applicable:** FR, GB, DE, US  
**ETSI Deliverable:** ETS 300 401

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**Company name:** France Telecom  
**Project:** DAB  
**Title:** Procédé de diffusion de données numériques, notamment pour la radiodiffusion à haut débit vers des mobiles à entrelacement temps-fréquence et synchronisation analogique

**Country of registration:** EPO  
**Application no.:** 93 116 353.9 (div of EP0369371)  
**Patent no.:** EP 0 600 193  
**Countries applicable:** FR, ES, GB, IT, NL  
**ETSI Deliverable:** ETS 300 401

---

**Company name:** France Telecom  
**Project:** DAB  
**Title:** Procédé de diffusion de données numériques, notamment pour la radiodiffusion à haut débit vers des mobiles à entrelacement temps-fréquence et synchronisation analogique  
**Country of registration:** FR  
**Application no.:** FR 88 15216 (=EP0369917)  
**Patent no.:** FR-2 639 495  
**Countries applicable:** FR, DE, ES, GB, IT, NL, US  
**ETSI Deliverable:** ETS 300 401

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**Company name:** France Telecom  
**Project:** DAB  
**Title:** Method and installation for digital communication, particularly between an towards moving vehicles  
**Country of registration:** PCT  
**Application no.:** PCT/EP-87/00346  
**Patent no.:** WO-88/00417  
**Countries applicable:** FR, DE, GB, IT, NL, SE, US, JP  
**ETSI Deliverable:** ETS 300 401

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**Company name:** IRT  
**Project:** DAB  
**Title:** Digital transmission system, transmitter and receiver for use in the transmission system, and record carrier obtained by means of the transmitter in the form of a recording device  
**Country of registration:** NL  
**Application no.:** NL 89 014023  
**Patent no.:** EP-0 402 973  
**Countries applicable:** AR, AT, AU, BE, BR, CA, CH, CN, CZ, DE, DK, ES, FR, GB, GR, HK, HU, IN, IT, JP, KR, LU, MX, MY, NL, PL, RU, SE, SG, SI, SK, TW, UA, US  
**ETSI Deliverable:** ETS 300 401

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**Company name:** Philips  
**Project:** DAB  
**Title:** Intensity stereo encoding and decoding in a transmission system  
**Country of registration:** n/a  
**Application no.:** (div of EP-0 402 973)  
**Patent no.:** EP-0 599 824  
**Countries applicable:** AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, HK, SG, IN, US  
**ETSI Deliverable:** ETS 300 401

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**Company name:** Télédiffusion de France  
**Project:** DAB  
**Title:** Intensity stereo encoding and decoding in a transmission system  
**Country of registration:** n/a  
**Application no.:** (div of EP-0 402 973)  
**Patent no.:** EP-0 599 824  
**Countries applicable:** AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, HK, SG, IN, US  
**ETSI Deliverable:** ETS 300 401

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**Company name:** IRT  
**Project:** DAB  
**Title:** Intensity stereo encoding and decoding in a transmission system  
**Country of registration:** n/a  
**Application no.:** (div of EP-0 402 973)  
**Patent no.:** EP-0 599 824  
**Countries applicable:** AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, HK, SG, IN, US  
**ETSI Deliverable:** ETS 300 401

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**Company name:** France Telecom  
**Project:** DAB  
**Title:** Intensity stereo encoding and decoding in a transmission system  
**Country of registration:** n/a  
**Application no.:** (div of EP-0 402 973)  
**Patent no.:** EP-0 599 824  
**Countries applicable:** AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, HK, SG, IN, US  
**ETSI Deliverable:** ETS 300 401

## DCS 1800

<b>Company name:</b>	Philips
<b>Project:</b>	DCS 1800
<b>Title:</b>	Dienstintegriertes Funkübertragungssystem
<b>Country of registration:</b>	EPO
<b>Application no.:</b>	86200724.2
<b>Patent no.:</b>	EP 0 201 126 B1
<b>Company name:</b>	Philips
<b>Project:</b>	DCS 1800
<b>Title:</b>	Verfahren und Steuereinrichtung zur Verteilung der Verkehrsmenge auf verschiedene Organisationskanäle eines Funkübertragungssys
<b>Country of registration:</b>	EPO
<b>Application no.:</b>	83201766.9
<b>Patent no.:</b>	EP 0 111 971 B1
<b>Company name:</b>	Philips
<b>Project:</b>	DCS 1800
<b>Title:</b>	Procédé pour reconnaître l'utilisation illicite d'une identification
<b>Country of registration:</b>	FR
<b>Application no.:</b>	8504296
<b>Patent no.:</b>	FR 256 184 1
<b>Countries applicable:</b>	FR
<b>Company name:</b>	Philips
<b>Project:</b>	DCS 1800
<b>Title:</b>	Verfahren zum Zugreifen auf Übertragungskanäle eines Nachrichtenübertragungssystems
<b>Country of registration:</b>	EPO
<b>Application no.:</b>	82107529.8
<b>Patent no.:</b>	EP 0 073 014 B1
<b>Company name:</b>	Philips
<b>Project:</b>	DCS 1800
<b>Title:</b>	Improvements in or relating to Digital Filters
<b>Country of registration:</b>	GB
<b>Application no.:</b>	8104155
<b>Patent no.:</b>	GB 2069799
<b>Countries applicable:</b>	GB
<b>Company name:</b>	Philips
<b>Project:</b>	DCS 1800
<b>Title:</b>	Multiple-access communications system
<b>Country of registration:</b>	EPO
<b>Application no.:</b>	84201107.4
<b>Patent no.:</b>	EP 0 134 057
<b>Company name:</b>	Philips
<b>Project:</b>	DCS 1800
<b>Title:</b>	Information transmission system
<b>Country of registration:</b>	GB
<b>Application no.:</b>	8008510
<b>Patent no.:</b>	GB 2063011
<b>Countries applicable:</b>	GB
<b>Company name:</b>	Philips
<b>Project:</b>	DCS 1800
<b>Title:</b>	Digitales Funkübertragungssystem mit variabler Zeitschlitzdauer der Zeitschlitz im Zeitmultiplexrahmen
<b>Country of registration:</b>	EPO
<b>Application no.:</b>	86201267.1
<b>Patent no.:</b>	EP 0 210 698

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**Company name:** Philips  
**Project:** DCS 1800  
**Title:** Verfahren und Steuereinrichtung zum Auswählen eines Organisationskanals in einer beweglichen Funkstation eines Funkübertragungs

**Country of registration:** EPO  
**Application no.:** 83201767.7  
**Patent no.:** EP 0 111 972 B1

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**Company name:** Philips  
**Project:** DCS 1800  
**Title:** Verfahren und Steuereinrichtung zur Verteilung der Verkehrsmenge auf verschiedene Organisationskanäle eines Funkübertragungssys

**Country of registration:** EPO  
**Application no.:** 83201765.1  
**Patent no.:** EP 0 111 970 B1

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**Company name:** Philips  
**Project:** DCS 1800  
**Title:** Multi-pulse excitation linear-predictive speech coder

**Country of registration:** EPO  
**Application no.:** 86200434.8  
**Patent no.:** EP 0 195 487 B1

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**Company name:** Philips  
**Project:** DCS 1800  
**Title:** TDMA system of transmitting information between a central station and sub-stations

**Country of registration:** GB  
**Application no.:** 8207811  
**Patent no.:** GB 209 55 16  
**Countries applicable:** GB

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**Company name:** Matra  
**Project:** DCS 1800  
**Country of registration:** EPO  
**Application no.:** 0472 460 B1

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**Company name:** Matra  
**Project:** DCS 1800  
**Country of registration:** AU  
**Application no.:** 638 160

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**Company name:** Matra  
**Project:** DCS 1800  
**Country of registration:** FI  
**Application no.:** 91 03 903

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**Company name:** Philips  
**Project:** DCS 1800  
**Title:** Verfahren zur Überwachung einer zwischen ortsfester Funkstation und beweglicher Funkstation bestehenden Funkverbindung

**Country of registration:** EPO  
**Application no.:** 83201768.5  
**Patent no.:** EP 0 111 973 B1

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**Company name:** Philips  
**Project:** DCS 1800  
**Title:** Verfahren und Steuereinrichtung zum Auswählen eines Organisationskanals durch eine bewegliche Funkstation

**Country of registration:** EPO  
**Application no.:** 87200545.9  
**Patent no.:** EP 0 240 073 B1

## DECT

<b>Company name:</b>	Alcatel
<b>Project:</b>	DECT
<b>Title:</b>	Ukrainian SSR
<b>Country of registration:</b>	UA
<b>Application no.:</b>	9504662
<b>Countries applicable:</b>	UA
<b>ETSI Deliverable:</b>	ETR 310
<b>Company name:</b>	Telia AB
<b>Project:</b>	DECT
<b>Country of registration:</b>	n/a
<b>Application no.:</b>	9458446
<b>Countries applicable:</b>	AU
<b>Notes:</b>	This statement is made 10 February 1999 by Telia AB, a Member of ETSI. In accordance with the ETSI Interim IPR Policy, Article 4.1. Telia AB hereby inform ETSI that with reference to ETSI Standards it is the belief of Telia AB that the following IPRs are, or are likely to become, Essential IPRs in relation to ETSI Standards.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	DECT
<b>Title:</b>	IMPLEMENTATION OF MUTUAL RATE ADAPTATIONS IN DATA SERVICES BETWEEN GSM AND DECT
<b>Country of registration:</b>	EPO
<b>Application no.:</b>	96304138,9
<b>Countries applicable:</b>	AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Telia AB
<b>Project:</b>	DECT
<b>Country of registration:</b>	n/a
<b>Application no.:</b>	722229
<b>Countries applicable:</b>	EPO
<b>Notes:</b>	This statement is made 10 February 1999 by Telia AB, a Member of ETSI. In accordance with the ETSI Interim IPR Policy, Article 4.1. Telia AB hereby inform ETSI that with reference to ETSI Standards it is the belief of Telia AB that the following IPRs are, or are likely to become, Essential IPRs in relation to ETSI Standards.
<b>Company name:</b>	Telia AB
<b>Project:</b>	DECT
<b>Country of registration:</b>	n/a
<b>Application no.:</b>	9504962
<b>Countries applicable:</b>	NO
<b>Notes:</b>	This statement is made 10 February 1999 by Telia AB, a Member of ETSI. In accordance with the ETSI Interim IPR Policy, Article 4.1. Telia AB hereby inform ETSI that with reference to ETSI Standards it is the belief of Telia AB that the following IPRs are, or are likely to become, Essential IPRs in relation to ETSI Standards.
<b>Company name:</b>	Telia AB
<b>Project:</b>	DECT
<b>Country of registration:</b>	n/a
<b>Application no.:</b>	9500121-0
<b>Countries applicable:</b>	SE
<b>Notes:</b>	This statement is made 10 February 1999 by Telia AB, a Member of ETSI. In accordance with the ETSI Interim IPR Policy, Article 4.1. Telia AB hereby inform ETSI that with reference to ETSI Standards it is the belief of Telia AB that the following IPRs are, or are likely to become, Essential IPRs in relation to ETSI Standards.

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**Company name:** Telia AB  
**Project:** DECT  
**Country of registration:** n/a  
**Application no.:** 776551  
**Countries applicable:** EPO  
**Notes:** This statement is made 10 February 1999 by Telia AB, a Member of ETSI. In accordance with the ETSI Interim IPR Policy, Article 4.1. Telia AB hereby inform ETSI that with reference to ETSI Standards it is the belief of Telia AB that the following IPRs are, or are likely to become, Essential IPRs in relation to ETSI Standards.

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**Company name:** Telia AB  
**Project:** DECT  
**Country of registration:** n/a  
**Application no.:** 9532680  
**Countries applicable:** AU  
**Notes:** This statement is made 10 February 1999 by Telia AB, a Member of ETSI. In accordance with the ETSI Interim IPR Policy, Article 4.1. Telia AB hereby inform ETSI that with reference to ETSI Standards it is the belief of Telia AB that the following IPRs are, or are likely to become, Essential IPRs in relation to ETSI Standards.

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**Company name:** Telia AB  
**Project:** DECT  
**Country of registration:** n/a  
**Application no.:** 9402769-5  
**Countries applicable:** SE  
**Notes:** This statement is made 10 February 1999 by Telia AB, a Member of ETSI. In accordance with the ETSI Interim IPR Policy, Article 4.1. Telia AB hereby inform ETSI that with reference to ETSI Standards it is the belief of Telia AB that the following IPRs are, or are likely to become, Essential IPRs in relation to ETSI Standards.

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**Company name:** Telia AB  
**Project:** DECT  
**Country of registration:** n/a  
**Application no.:** 9500365-3  
**Countries applicable:** SE  
**Notes:** This statement is made 10 February 1999 by Telia AB, a Member of ETSI. In accordance with the ETSI Interim IPR Policy, Article 4.1. Telia AB hereby inform ETSI that with reference to ETSI Standards it is the belief of Telia AB that the following IPRs are, or are likely to become, Essential IPRs in relation to ETSI Standards.

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**Company name:** Telia AB  
**Project:** DECT  
**Country of registration:** n/a  
**Application no.:** 680676  
**Countries applicable:** EPO  
**Notes:** This statement is made 10 February 1999 by Telia AB, a Member of ETSI. In accordance with the ETSI Interim IPR Policy, Article 4.1. Telia AB hereby inform ETSI that with reference to ETSI Standards it is the belief of Telia AB that the following IPRs are, or are likely to become, Essential IPRs in relation to ETSI Standards.

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**Company name:** Telia AB  
**Project:** DECT  
**Country of registration:** n/a  
**Application no.:** 9624228  
**Countries applicable:** PCT  
**Notes:** This statement is made 10 February 1999 by Telia AB, a Member of ETSI. In accordance with the ETSI Interim IPR Policy, Article 4.1. Telia AB hereby inform ETSI that with reference to ETSI Standards it is the belief of Telia AB that the following IPRs are, or are likely to become, Essential IPRs in relation to ETSI Standards.



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**Company name:** Telia AB  
**Project:** DECT  
**Country of registration:** n/a  
**Application no.:** 9300162  
**Countries applicable:** SE  
**Notes:** This statement is made 10 February 1999 by Telia AB, a Member of ETSI. In accordance with the ETSI Interim IPR Policy, Article 4.1. Telia AB hereby inform ETSI that with reference to ETSI Standards it is the belief of Telia AB that the following IPRs are, or are likely to become, Essential IPRs in relation to ETSI Standards.

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**Company name:** Telia AB  
**Project:** DECT  
**Country of registration:** n/a  
**Application no.:** PCT/SE98/01087  
**Countries applicable:** EPO, EE, LV, LT, NO  
**Notes:** This statement is made 10 February 1999 by Telia AB, a Member of ETSI. In accordance with the ETSI Interim IPR Policy, Article 4.1. Telia AB hereby inform ETSI that with reference to ETSI Standards it is the belief of Telia AB that the following IPRs are, or are likely to become, Essential IPRs in relation to ETSI Standards.

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**Company name:** Telia AB  
**Project:** DECT  
**Country of registration:** n/a  
**Application no.:** 9702266-9  
**Countries applicable:** SE  
**Notes:** This statement is made 10 February 1999 by Telia AB, a Member of ETSI. In accordance with the ETSI Interim IPR Policy, Article 4.1. Telia AB hereby inform ETSI that with reference to ETSI Standards it is the belief of Telia AB that the following IPRs are, or are likely to become, Essential IPRs in relation to ETSI Standards.

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**Company name:** Nokia Corporation  
**Project:** DECT  
**Title:** IMPLEMENTATION OF MUTUAL RATE ADAPTATIONS IN DATA SERVICES BETWEEN GSM AND DECT  
**Country of registration:** FI  
**Application no.:** 952813  
**Patent no.:** 98176  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Canon  
**Project:** DECT  
**Title:** MMAP  
**Country of registration:** n/a  
**Notes:** Canon (Canon Research France - CRF) has declared that, in the event the proposed standard is adopted, it is ready to grant licenses under the Essential IPR(s) of the "standard", owned by CRF, on fair, reasonable and non-discriminatory terms and conditions, and provided that a similar grant under licensee's Essential IPR(s) is made available upon request of CRF.

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**Company name:** Nokia Corporation  
**Project:** DECT  
**Title:** IMPLEMENTATION OF MUTUAL RATE ADAPTATIONS IN DATA SERVICES BETWEEN GSM AND DECT  
**Country of registration:** AU  
**Application no.:** 58218/96  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Alcatel  
**Project:** DECT  
**Title:** Burst Alignment Procedure  
**Country of registration:** ES  
**Application no.:** 9402471  
**Countries applicable:** ES  
**ETSI Deliverable:** ETR 310

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**Company name:** Telia AB  
**Project:** DECT  
**Country of registration:** n/a  
**Patent no.:** 5761194  
**Countries applicable:** US  
**Notes:** This statement is made 10 February 1999 by Telia AB, a Member of ETSI. In accordance with the ETSI Interim IPR Policy, Article 4.1. Telia AB hereby inform ETSI that with reference to ETSI Standards it is the belief of Telia AB that the following IPRs are, or are likely to become, Essential IPRs in relation to ETSI Standards.

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**Company name:** Nokia Corporation  
**Project:** DECT  
**Title:** DATA TRANSMISSION METHOD  
**Country of registration:** AT  
**Application no.:** A1990/95  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** DECT  
**Title:** DATA TRANSMISSION METHOD  
**Country of registration:** US  
**Application no.:** 08/849504  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** DECT  
**Title:** DATA TRANSMISSION METHOD  
**Country of registration:** SE  
**Application no.:** 9504420-2  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** DECT  
**Title:** DATA TRANSMISSION METHOD  
**Country of registration:** JP  
**Application no.:** 08-518306  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** DECT  
**Title:** DATA TRANSMISSION METHOD  
**Country of registration:** IT  
**Application no.:** MI95A002579  
**Patent no.:** 1277976  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** DECT  
**Title:** DATA TRANSMISSION METHOD  
**Country of registration:** GB  
**Application no.:** 9525018,9  
**Patent no.:** 2296161  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** DECT  
**Title:** DATA TRANSMISSION METHOD  
**Country of registration:** FR  
**Application no.:** 9514476  
**Patent no.:** 9514476  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** DECT  
**Title:** DATA TRANSMISSION METHOD  
**Country of registration:** DE  
**Application no.:** 19545767,6  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Telia AB  
**Project:** DECT  
**Country of registration:** n/a  
**Application no.:** 9400119-5  
**Countries applicable:** SE  
**Notes:** This statement is made 10 February 1999 by Telia AB, a Member of ETSI. In accordance with the ETSI Interim IPR Policy, Article 4.1. Telia AB hereby inform ETSI that with reference to ETSI Standards it is the belief of Telia AB that the following IPRs are, or are likely to become, Essential IPRs in relation to ETSI Standards.

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**Company name:** Nokia Corporation  
**Project:** DECT  
**Title:** DATA TRANSMISSION METHOD  
**Country of registration:** CH  
**Application no.:** 3510/95  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** DECT  
**Title:** IMPLEMENTATION OF MUTUAL RATE ADAPTATIONS IN DATA SERVICES BETWEEN GSM AND DECT  
**Country of registration:** JP  
**Application no.:** 8-136887  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** DECT  
**Title:** DATA TRANSMISSION METHOD  
**Country of registration:** FI  
**Application no.:** 945844  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia  
**Project:** DECT  
**Title:** Implementation of mutual rate adaptations in data services between GSM and DECT  
**Country of registration:** EPO  
**Application no.:** 96304138.9  
**Patent no.:** EP 748136  
**Countries applicable:** NL, ES, GB, IT, FR, DE  
**ETSI Deliverable:** ETS 300 756, ETS 300 792

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**Company name:** Telia AB  
**Project:** DECT  
**Country of registration:** n/a  
**Application no.:** 9639785  
**Countries applicable:** PCT  
**Notes:** This statement is made 10 February 1999 by Telia AB, a Member of ETSI. In accordance with the ETSI Interim IPR Policy, Article 4.1. Telia AB hereby inform ETSI that with reference to ETSI Standards it is the belief of Telia AB that the following IPRs are, or are likely to become, Essential IPRs in relation to ETSI Standards.

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**Company name:** Telia AB  
**Project:** DECT  
**Country of registration:** n/a  
**Application no.:** 9502052-5  
**Countries applicable:** SE  
**Notes:** This statement is made 10 February 1999 by Telia AB, a Member of ETSI. In accordance with the ETSI Interim IPR Policy, Article 4.1. Telia AB hereby inform ETSI that with reference to ETSI Standards it is the belief of Telia AB that the following IPRs are, or are likely to become, Essential IPRs in relation to ETSI Standards.

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**Company name:** Telia AB  
**Project:** DECT  
**Country of registration:** n/a  
**Application no.:** 726690  
**Countries applicable:** EPO  
**Notes:** This statement is made 10 February 1999 by Telia AB, a Member of ETSI. In accordance with the ETSI Interim IPR Policy, Article 4.1. Telia AB hereby inform ETSI that with reference to ETSI Standards it is the belief of Telia AB that the following IPRs are, or are likely to become, Essential IPRs in relation to ETSI Standards.

<b>Company name:</b>	Telia AB
<b>Project:</b>	DECT
<b>Country of registration:</b>	n/a
<b>Application no.:</b>	9600458
<b>Countries applicable:</b>	NO
<b>Notes:</b>	This statement is made 10 February 1999 by Telia AB, a Member of ETSI. In accordance with the ETSI Interim IPR Policy, Article 4.1. Telia AB hereby inform ETSI that with reference to ETSI Standards it is the belief of Telia AB that the following IPRs are, or are likely to become, Essential IPRs in relation to ETSI Standards.
<b>Company name:</b>	Telia AB
<b>Project:</b>	DECT
<b>Country of registration:</b>	n/a
<b>Patent no.:</b>	505209
<b>Countries applicable:</b>	SE
<b>Notes:</b>	This statement is made 10 February 1999 by Telia AB, a Member of ETSI. In accordance with the ETSI Interim IPR Policy, Article 4.1. Telia AB hereby inform ETSI that with reference to ETSI Standards it is the belief of Telia AB that the following IPRs are, or are likely to become, Essential IPRs in relation to ETSI Standards.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	DECT
<b>Title:</b>	DATA TRANSMISSION METHOD
<b>Country of registration:</b>	CN
<b>Application no.:</b>	95196747,9
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Alcatel
<b>Project:</b>	DECT
<b>Title:</b>	Method for transmitting information at high speed by multiple burst allocation and associate receiving method and device.
<b>Country of registration:</b>	JP
<b>Application no.:</b>	331170/93
<b>Countries applicable:</b>	JP
<b>ETSI Deliverable:</b>	ETS 300 175-3
<b>Notes:</b>	in general clause 4.22, figure 6; subclause 6.2.1.3 more particularly
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	DECT
<b>Title:</b>	IMPLEMENTATION OF MUTUAL RATE ADAPTATIONS IN DATA SERVICES BETWEEN GSM AND DECT
<b>Country of registration:</b>	CN
<b>Application no.:</b>	96195981,9
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Alcatel
<b>Project:</b>	DECT
<b>Title:</b>	DECT Frame Synchronization
<b>Country of registration:</b>	JP
<b>Application no.:</b>	170176/96
<b>Countries applicable:</b>	JP
<b>ETSI Deliverable:</b>	ETR 310
<b>Company name:</b>	Alcatel
<b>Project:</b>	DECT
<b>Title:</b>	DECT Frame Synchronization
<b>Country of registration:</b>	AU
<b>Application no.:</b>	56167
<b>Countries applicable:</b>	AU
<b>ETSI Deliverable:</b>	ETR 310

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**Company name:** Alcatel  
**Project:** DECT  
**Title:** DECT Frame Synchronization  
**Country of registration:** DE  
**Application no.:** 19523489  
**Countries applicable:** DE  
**ETSI Deliverable:** ETR 310

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**Company name:** Alcatel  
**Project:** DECT  
**Title:** Wireless Tie Line  
**Country of registration:** US  
**Application no.:** 6808  
**Patent no.:** 5355402  
**Countries applicable:** US  
**ETSI Deliverable:** ETS 300 822

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**Company name:** Alcatel  
**Project:** DECT  
**Title:** Wireless Tie Line  
**Country of registration:** EPO  
**Application no.:** 92121870.7  
**Patent no.:** 553485  
**Countries applicable:** AT, BE, DE, IT, NL, ES, SE, CH, GB  
**ETSI Deliverable:** ETS 300 822

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**Company name:** Alcatel  
**Project:** DECT  
**Title:** Wireless Tie Line  
**Country of registration:** DE  
**Application no.:** 4201561.8  
**Countries applicable:** DE  
**ETSI Deliverable:** ETS 300 822

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**Company name:** Alcatel  
**Project:** DECT  
**Title:** DECT Frame Synchronization  
**Country of registration:** US  
**Application no.:** 661373  
**Countries applicable:** US  
**ETSI Deliverable:** ETR 310

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**Company name:** Alcatel  
**Project:** DECT  
**Title:** Method for transmitting information at high speed by multiple burst allocation and associate receiving method and device.  
**Country of registration:** NO  
**Application no.:** 934859  
**Countries applicable:** NO  
**ETSI Deliverable:** ETS 300 175-3  
**Notes:** in general clause 4.22, figure 6; subclause 6.2.1.3 more particularly

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**Company name:** Alcatel  
**Project:** DECT  
**Title:** Burst Alignment Procedure  
**Country of registration:** EPO  
**Application no.:** 95940248.8  
**Patent no.:** 795238  
**Countries applicable:** FR, DE, IT, SE, GB  
**ETSI Deliverable:** ETR 310

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**Company name:** Alcatel  
**Project:** DECT  
**Title:** Method for transmitting information at high speed by multiple burst allocation and associate receiving method and device.  
**Country of registration:** FI  
**Application no.:** 935885  
**Countries applicable:** FI  
**ETSI Deliverable:** ETS 300 175-3  
**Notes:** in general clause 4.22, figure 6; subclause 6.2.1.3 more particularly

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**Company name:** Alcatel  
**Project:** DECT  
**Title:** Method for transmitting information at high speed by multiple burst allocation and associate receiving method and device.  
**Country of registration:** CA  
**Application no.:** 2112511  
**Countries applicable:** CA  
**ETSI Deliverable:** ETS 300 175-3  
**Notes:** in general clause 4.22, figure 6; subclause 6.2.1.3 more particularly

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**Company name:** Alcatel  
**Project:** DECT  
**Title:** Method for transmitting information at high speed by multiple burst allocation and associate receiving method and device.  
**Country of registration:** AU  
**Application no.:** 56167  
**Countries applicable:** AU  
**ETSI Deliverable:** ETS 300 175-3  
**Notes:** in general clause 4.22, figure 6. subclause 6.2.1.3 more particularly

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**Company name:** Alcatel  
**Project:** DECT  
**Title:** Method for transmitting information at high speed by multiple burst allocation and associate receiving method and device.  
**Country of registration:** EPO  
**Application no.:** 93403177.4  
**Patent no.:** 0605312  
**Countries applicable:** AT, BE, DK, FR, DE, IT, NL, ES, SE, CH, GB  
**ETSI Deliverable:** ETS 300 175-3  
**Notes:** in general clause 4.22, figure 6, subclause 6.2.1.3 more particularly

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**Company name:** Alcatel  
**Project:** DECT  
**Title:** Method for transmitting information at high speed by multiple burst allocation and associate receiving method and device.  
**Country of registration:** FR  
**Application no.:** 92-15934  
**Patent no.:** 2700086  
**ETSI Deliverable:** ETS 300 175-3

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**Company name:** Nokia  
**Project:** DECT  
**Title:** Implementation of mutual rate adaptations in data services between GSM and DECT  
**Country of registration:** PCT  
**Application no.:** PCT/FI96/00305  
**Patent no.:** WO 9641490  
**ETSI Deliverable:** ETS 300 756, ETS 300 792

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**Company name:** Nokia  
**Project:** DECT  
**Title:** Implementation of mutual rate adaptations in data services between GSM and DECT  
**Country of registration:** JP  
**Application no.:** 8-136887  
**ETSI Deliverable:** ETS 300 756, ETS 300 792

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**Company name:** Alcatel  
**Project:** DECT  
**Title:** Method for transmitting information at high speed by multiple burst allocation and associate receiving method and device.  
**Country of registration:** US  
**Application no.:** 175555  
**Countries applicable:** US  
**ETSI Deliverable:** ETS 300 175-3  
**Notes:** in general clause 4.22, figure 6; subclause 6.2.1.3 more particularly

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**Company name:** Alcatel  
**Project:** DECT  
**Title:** Burst Alignment Procedure  
**Country of registration:** MA  
**Application no.:** 24082  
**Countries applicable:** MA  
**ETSI Deliverable:** ETR 310

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**Company name:** Nokia Corporation  
**Project:** DECT  
**Title:** IMPLEMENTATION OF MUTUAL RATE ADAPTATIONS IN DATA SERVICES BETWEEN GSM AND DECT  
**Country of registration:** RU  
**Application no.:** 97119934  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** DECT  
**Title:** IMPLEMENTATION OF MUTUAL RATE ADAPTATIONS IN DATA SERVICES BETWEEN GSM AND DECT  
**Country of registration:** US  
**Application no.:** 08/659590  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Alcatel  
**Project:** DECT  
**Title:** DECT Frame Synchronization  
**Country of registration:** EPO  
**Application no.:** 96109652.6  
**Patent no.:** 751634  
**Countries applicable:** AT, BE, FR, DE, IT, LI, NL, ES, SE, CH, GB  
**ETSI Deliverable:** ETR 310

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**Company name:** Alcatel  
**Project:** DECT  
**Title:** Ukrainian SSR  
**Country of registration:** US  
**Application no.:** 676389  
**Countries applicable:** US  
**ETSI Deliverable:** ETR 310

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**Company name:** Alcatel  
**Project:** DECT  
**Title:** Burst Alignment Procedure  
**Country of registration:** NZ  
**Application no.:** 297000  
**Countries applicable:** NZ  
**ETSI Deliverable:** ETR 310

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**Company name:** Alcatel  
**Project:** DECT  
**Title:** Burst Alignment Procedure  
**Country of registration:** TH  
**Application no.:** 1344  
**Countries applicable:** TH  
**ETSI Deliverable:** ETR 310

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**Company name:** Alcatel  
**Project:** DECT  
**Title:** Burst Alignment Procedure  
**Country of registration:** ZA  
**Application no.:** 959877  
**Countries applicable:** ZA  
**ETSI Deliverable:** ETR 310

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**Company name:** Alcatel  
**Project:** DECT  
**Title:** DECT Frame Synchronization  
**Country of registration:** NZ  
**Application no.:** 286843  
**Countries applicable:** NZ  
**ETSI Deliverable:** ETR 310

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**Company name:** Alcatel  
**Project:** DECT  
**Title:** Burst Alignment Procedure  
**Country of registration:** PE  
**Application no.:** 285380  
**Countries applicable:** PE  
**ETSI Deliverable:** ETR 310

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**Company name:** Nokia  
**Project:** DECT  
**Title:** Implementation of mutual rate adaptations in data services between GSM and DECT  
**Country of registration:** FI  
**Application no.:** 952813  
**Patent no.:** FI 98176  
**ETSI Deliverable:** ETS 300 756, ETS 300 792

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**Company name:** Alcatel  
**Project:** DECT  
**Title:** Burst Alignment Procedure  
**Country of registration:** IN  
**Application no.:** 201195  
**Countries applicable:** IN  
**ETSI Deliverable:** ETR 310

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**Company name:** Alcatel  
**Project:** DECT  
**Title:** Burst Alignment Procedure  
**Country of registration:** HU  
**Application no.:** 9601896  
**Countries applicable:** HU  
**ETSI Deliverable:** ETR 310

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**Company name:** Alcatel  
**Project:** DECT  
**Title:** Burst Alignment Procedure  
**Country of registration:** FI  
**Application no.:** 963008  
**Countries applicable:** FI  
**ETSI Deliverable:** ETR 310

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**Company name:** Alcatel  
**Project:** DECT  
**Title:** Burst Alignment Procedure  
**Country of registration:** CN  
**Application no.:** 95191406.5  
**Countries applicable:** CN  
**ETSI Deliverable:** ETR 310

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**Company name:** Alcatel  
**Project:** DECT  
**Title:** Burst Alignment Procedure  
**Country of registration:** BR  
**Application no.:** 9506646-2  
**Countries applicable:** BR  
**ETSI Deliverable:** ETR 310

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**Company name:** Alcatel  
**Project:** DECT  
**Title:** Burst Alignment Procedure  
**Country of registration:** AU  
**Application no.:** 41762  
**Countries applicable:** AU  
**ETSI Deliverable:** ETR 310

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**Company name:** Alcatel  
**Project:** DECT  
**Title:** Burst Alignment Procedure  
**Country of registration:** AR  
**Application no.:** 95010299  
**Countries applicable:** AR  
**ETSI Deliverable:** ETR 310

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**Company name:** Alcatel  
**Project:** DECT  
**Title:** Burst Alignment Procedure  
**Country of registration:** RU  
**Application no.:** 86116584  
**Countries applicable:** RU  
**ETSI Deliverable:** ETR 310

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**Company name:** Telia AB  
**Project:** DECT  
**Title:** A Mobile Radio System  
**Country of registration:** PCT  
**Application no.:** PCT/SE95/00998

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**Company name:** Alcatel  
**Project:** DECT  
**Title:** Burst Alignment Procedure  
**Country of registration:** PL  
**Application no.:** 315625  
**Countries applicable:** PL  
**ETSI Deliverable:** ETR 310

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**Company name:** Telia AB  
**Project:** DECT  
**Title:** A Mobile Radio System  
**Country of registration:** EPO  
**Application no.:** 94902147.1

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**Company name:** Telia AB  
**Project:** DECT  
**Title:** Arrangement in a DECT System  
**Country of registration:** EPO  
**Application no.:** 95850001.9

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**Company name:** Telia AB  
**Project:** DECT  
**Title:** Arrangement for Improving Functions in a Radiocommunications System  
**Country of registration:** EPO  
**Application no.:** 95850041.5

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**Company name:** Telia AB  
**Project:** DECT  
**Title:** A Radio-based Communication System  
**Country of registration:** PCT  
**Application no.:** PCT/SE95/00259

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**Company name:** Telia AB  
**Project:** DECT  
**Title:** A Mobile Radio System  
**Country of registration:** PCT  
**Application no.:** PCT/SE95/00610

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**Company name:** Telia AB  
**Project:** DECT  
**Title:** Device at Telecommunication Systems  
**Country of registration:** PCT  
**Application no.:** PCT/SE95/00845

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**Company name:** Telia AB  
**Project:** DECT  
**Title:** Device at Telecommunication Systems  
**Country of registration:** PCT  
**Application no.:** PCT/SE95/00846

## DECT/GSM

<b>Company name:</b>	Telia AB
<b>Project:</b>	DECT/GSM
<b>Title:</b>	Arrangement for Handover in a Mobile Telecommunication Network
<b>Country of registration:</b>	SE
<b>Application no.:</b>	9500408-1
<b>Countries applicable:</b>	SE
<b>Company name:</b>	Telia AB
<b>Project:</b>	DECT/GSM
<b>Country of registration:</b>	n/a
<b>Application no.:</b>	9625015
<b>Countries applicable:</b>	PCT
<b>Notes:</b>	This statement is made 10 February 1999 by Telia AB, a Member of ETSI. In accordance with the ETSI Interim IPR Policy, Article 4.1. Telia AB hereby inform ETSI that with reference to ETSI Standards it is the belief of Telia AB that the following IPRs are, or are likely to become, Essential IPRs in relation to ETSI Standards.
<b>Company name:</b>	Telia AB
<b>Project:</b>	DECT/GSM
<b>Country of registration:</b>	n/a
<b>Application no.:</b>	9643382
<b>Countries applicable:</b>	AU
<b>Notes:</b>	This statement is made 10 February 1999 by Telia AB, a Member of ETSI. In accordance with the ETSI Interim IPR Policy, Article 4.1. Telia AB hereby inform ETSI that with reference to ETSI Standards it is the belief of Telia AB that the following IPRs are, or are likely to become, Essential IPRs in relation to ETSI Standards.
<b>Company name:</b>	Telia AB
<b>Project:</b>	DECT/GSM
<b>Country of registration:</b>	n/a
<b>Application no.:</b>	725552
<b>Countries applicable:</b>	EPO
<b>Notes:</b>	This statement is made 10 February 1999 by Telia AB, a Member of ETSI. In accordance with the ETSI Interim IPR Policy, Article 4.1. Telia AB hereby inform ETSI that with reference to ETSI Standards it is the belief of Telia AB that the following IPRs are, or are likely to become, Essential IPRs in relation to ETSI Standards.
<b>Company name:</b>	Telia AB
<b>Project:</b>	DECT/GSM
<b>Title:</b>	Method and Arrangement for Transfer between a Cordless Telecommunications System and a Cellular Mobile Telecommunications System
<b>Country of registration:</b>	SE
<b>Application no.:</b>	9500407-3
<b>Patent no.:</b>	503 848
<b>Countries applicable:</b>	SE
<b>Company name:</b>	Telia AB
<b>Project:</b>	DECT/GSM
<b>Country of registration:</b>	n/a
<b>Application no.:</b>	808549
<b>Countries applicable:</b>	EPO
<b>Notes:</b>	This statement is made 10 February 1999 by Telia AB, a Member of ETSI. In accordance with the ETSI Interim IPR Policy, Article 4.1. Telia AB hereby inform ETSI that with reference to ETSI Standards it is the belief of Telia AB that the following IPRs are, or are likely to become, Essential IPRs in relation to ETSI Standards.

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**Company name:** Telia AB  
**Project:** DECT/GSM  
**Country of registration:** n/a  
**Application no.:** 9500407-3  
**Countries applicable:** SE  
**Notes:** This statement is made 10 February 1999 by Telia AB, a Member of ETSI. In accordance with the ETSI Interim IPR Policy, Article 4.1. Telia AB hereby inform ETSI that with reference to ETSI Standards it is the belief of Telia AB that the following IPRs are, or are likely to become, Essential IPRs in relation to ETSI Standards.

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**Company name:** Telia AB  
**Project:** DECT/GSM  
**Country of registration:** n/a  
**Application no.:** 9500408  
**Countries applicable:** SE  
**Notes:** This statement is made 10 February 1999 by Telia AB, a Member of ETSI. In accordance with the ETSI Interim IPR Policy, Article 4.1. Telia AB hereby inform ETSI that with reference to ETSI Standards it is the belief of Telia AB that the following IPRs are, or are likely to become, Essential IPRs in relation to ETSI Standards.

## DTM

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**Company name:** Net Insight  
**Project:** DTM  
**Title:** Method and arrangement for dynamic signalling  
**Country of registration:** SE  
**Application no.:** WO 97/36401  
**ETSI Deliverable:** DES/SPAN-13 0005 (ES 201 803-2)  
**Notes:** The Signatory and/or its affiliates hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with clause 6.1 of the ETSI IPR Policy, in respect of the Standard, to the extent that the IPRs remain essential.

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**Company name:** Net Insight  
**Project:** DTM  
**Title:** Methods and systems for determining network topology  
**Country of registration:** SE  
**Application no.:** WO 00/31925  
**ETSI Deliverable:** DES/SPAN-13 0005 (ES 201 803-2)  
**Notes:** The Signatory and/or its affiliates hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with clause 6.1 of the ETSI IPR Policy, in respect of the Standard, to the extent that the IPRs remain essential.

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**Company name:** Net Insight  
**Project:** DTM  
**Title:** Method and apparatus for distributing messages in a communication network  
**Country of registration:** SE  
**Application no.:** EP 1024677  
**ETSI Deliverable:** DES/SPAN-13 0005 (ES 201 803-2)  
**Notes:** The Signatory and/or its affiliates hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with clause 6.1 of the ETSI IPR Policy, in respect of the Standard, to the extent that the IPRs remain essential.

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**Company name:** Net Insight  
**Project:** DTM  
**Title:** Method, system and apparatuses for transferring information between nodes in a circuit switched time division multiplexed network  
**Country of registration:** SE  
**Application no.:** WO 99/16215  
**ETSI Deliverable:** DES/SPAN-13 0005 (ES 201 803-2)  
**Notes:** The Signatory and/or its affiliates hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with clause 6.1 of the ETSI IPR Policy, in respect of the Standard, to the extent that the IPRs remain essential.

## DVB

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**Company name:** France Telecom  
**Project:** DVB  
**Title:** Procédé de codage correcteur d'erreurs à au moins deux codages convolutifs systématiques en parallèle, procédé de codage itératif, module de décodage et decodeur correspondant  
**Country of registration:** US  
**Patent no.:** 5,446,747  
**Countries applicable:** US  
**ETSI Deliverable:** EN 301 790  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

---

**Company name:** France Telecom  
**Project:** DVB  
**Title:** Procédé de codage correcteur d'erreurs à au moins deux codages convolutifs systématiques en parallèle, procédé de codage itératif, module de décodage et decodeur correspondant  
**Country of registration:** HK  
**Patent no.:** 98 106926.9  
**Countries applicable:** HK  
**ETSI Deliverable:** EN 301 790  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** France Telecom  
**Project:** DVB  
**Title:** Procédé de codage itératif, module de décodage et decodeur correspondant  
**Country of registration:** FR  
**Application no.:** 96 107690.8  
**Countries applicable:** DE, GB  
**ETSI Deliverable:** EN 301 790  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

---

**Company name:** France Telecom  
**Project:** DVB  
**Title:** Procédé et dispositif de codage à au moins deux codages en parallèle et permutation améliorée du procédé et dispositif de décodage correspondants  
**Country of registration:** FR  
**Application no.:** 99 09631  
**Countries applicable:** FR  
**ETSI Deliverable:** EN 301 790  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** France Telecom  
**Project:** DVB  
**Title:** Procédé et dispositif de codage à au moins deux codages en parallèle et permutation améliorée du procédé et dispositif de décodage correspondants  
**Country of registration:** FR  
**Application no.:** PCT FR 00/02080  
**Countries applicable:** FR  
**ETSI Deliverable:** EN 301 790  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** France Telecom  
**Project:** DVB  
**Title:** Procédé de codage correcteur d'erreurs à au moins deux codages convolutifs systématiques en parallèle, procédé de codage itératif, module de décodage et decodeur correspondant  
**Country of registration:** FR  
**Patent no.:** 91 05280  
**Countries applicable:** FR  
**ETSI Deliverable:** EN 301 790  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** France Telecom  
**Project:** DVB  
**Title:** Procédé et dispositif de codage à au moins deux codages en parallèle et permutation améliorée du procédé et dispositif de décodage correspondants  
**Country of registration:** US  
**Application no.:** 09/616,782  
**Countries applicable:** US  
**ETSI Deliverable:** EN 301 790  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SES-ASTRA  
**Project:** DVB  
**Title:** Apparatus and method for generating a carrier frequency  
**Country of registration:** EPO  
**Application no.:** PCT/EP00/01037  
**Countries applicable:** AU, BR, CA, JP, US  
**ETSI Deliverable:** TR 101 790  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

---

**Company name:** France Telecom  
**Project:** DVB  
**Title:** Procédé et dispositif de codage à au moins deux codages en parallèle et permutation améliorée du procédé et dispositif de décodage correspondants  
**Country of registration:** AR  
**Application no.:** P 00 0103733  
**Countries applicable:** AR  
**ETSI Deliverable:** EN 301 790  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SES-ASTRA  
**Project:** DVB  
**Title:** Apparatus and method for generating a carrier frequency  
**Country of registration:** EPO  
**Application no.:** HK00106169.2  
**Countries applicable:** HK  
**ETSI Deliverable:** TR 101 790  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.



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**Company name:** France Telecom  
**Project:** DVB  
**Title:** Procédé de codage correcteur d'erreurs à au moins deux codages convolutifs systématiques en parallèle, procédé de codage itératif, module de décodage et decodeur correspondant  
**Country of registration:** FR  
**Patent no.:** 92 460013.3  
**Countries applicable:** DE, GB  
**ETSI Deliverable:** EN 301 790  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SES-ASTRA  
**Project:** DVB  
**Title:** Apparatus and method for generating a carrier frequency  
**Country of registration:** EPO  
**Application no.:** EP99107496.4  
**Countries applicable:** EPO  
**ETSI Deliverable:** TR 101 790  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

## ERMES

<b>Company name:</b>	Nexus Telocation Systems, Ltd.
<b>Project:</b>	ERMES
<b>Title:</b>	Remote Position Determination System
<b>Country of registration:</b>	GB
<b>Patent no.:</b>	0583522
<b>Countries applicable:</b>	AT, FR, DE, IT, NL, GB
<b>Notes:</b>	ERMES 2-Way Paging
<b>Company name:</b>	Guy Le Nouveau
<b>Project:</b>	ERMES
<b>Title:</b>	Module additionnel d'émission radio pour récepteur de radiomessagerie permettant l'émission d'un accusé de réception
<b>Country of registration:</b>	FR
<b>Patent no.:</b>	94 06043
<b>Countries applicable:</b>	FR
<b>Notes:</b>	14 impasse des Verbeuses, 94800 Villejuif, France
<b>Company name:</b>	Nexus Telocation Systems, Ltd.
<b>Project:</b>	ERMES
<b>Title:</b>	Synchronization System For A Shared Channel Communication System
<b>Country of registration:</b>	PCT
<b>Patent no.:</b>	GB96/00268
<b>Notes:</b>	ERMES 2-Way Paging
<b>Company name:</b>	Nexus Telocation Systems, Ltd.
<b>Project:</b>	ERMES
<b>Title:</b>	Multi-Path Resistant Frequency-Hopped Spread Spectrum Mobile Location System
<b>Country of registration:</b>	PCT
<b>Patent no.:</b>	IB94/00372
<b>Notes:</b>	ERMES 2-Way Paging
<b>Company name:</b>	Nexus Telocation Systems, Ltd.
<b>Project:</b>	ERMES
<b>Title:</b>	Differential Ranging For A Frequency-Hopped Remote Position Determination System
<b>Country of registration:</b>	PCT
<b>Patent no.:</b>	GB96/00270
<b>Notes:</b>	ERMES 2-Way Paging
<b>Company name:</b>	Nexus Telocation Systems, Ltd.
<b>Project:</b>	ERMES
<b>Title:</b>	Low-Power Frequency-Hopped Spread Spectrum Acknowledgment Paging System
<b>Country of registration:</b>	PCT
<b>Patent no.:</b>	IB94/00370
<b>Notes:</b>	ERMES 2-Way Paging
<b>Company name:</b>	Nexus Telocation Systems, Ltd.
<b>Project:</b>	ERMES
<b>Title:</b>	Synchronization System for a Shared Channel Communication System
<b>Country of registration:</b>	EPO
<b>Application no.:</b>	96901912.4
<b>Notes:</b>	ERMES 2-Way Paging
<b>Company name:</b>	Nexus Telocation Systems, Ltd.
<b>Project:</b>	ERMES
<b>Title:</b>	Low-Power Frequency-Hopped Spread Spectrum Acknowledgment Paging System
<b>Country of registration:</b>	EPO
<b>Application no.:</b>	95900245.2
<b>Notes:</b>	ERMES 2-Way Paging

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**Company name:** Nexus Telocation Systems, Ltd.  
**Project:** ERMES  
**Title:** Remote Position Determination System  
**Country of registration:** NL  
**Patent no.:** 0583522  
**Countries applicable:** AT, FR, DE, IT, NL, GB  
**Notes:** ERMES 2-Way Paging

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**Company name:** Nexus Telocation Systems, Ltd.  
**Project:** ERMES  
**Title:** Remote Position Determination System  
**Country of registration:** IT  
**Patent no.:** 0583522  
**Countries applicable:** AT, FR, DE, IT, NL, GB  
**Notes:** ERMES 2-Way Paging

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**Company name:** Nexus Telocation Systems, Ltd.  
**Project:** ERMES  
**Title:** Remote Position Determination System  
**Country of registration:** AT  
**Patent no.:** 0583522  
**Countries applicable:** AT, FR, DE, IT, NL, GB  
**Notes:** ERMES 2-Way Paging

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**Company name:** Motorola  
**Project:** ERMES  
**Title:** Multiple Frequency Message System  
**Country of registration:** EPO  
**Application no.:** EP 89909668.9

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**Company name:** Nexus Telocation Systems, Ltd.  
**Project:** ERMES  
**Title:** Pager with Reverse Paging Facility  
**Country of registration:** EPO  
**Application no.:** 92311872.3  
**Notes:** ERMES 2-Way Paging

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**Company name:** Motorola  
**Project:** ERMES  
**Title:** Decoder for Transmitted Message Activation Codes  
**Country of registration:** EPO  
**Patent no.:** EP 0 090 851

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**Company name:** Nexus Telocation Systems, Ltd.  
**Project:** ERMES  
**Title:** Remote Position Determination System  
**Country of registration:** DE  
**Patent no.:** 0583522  
**Countries applicable:** AT, FR, DE, IT, NL, GB  
**Notes:** ERMES 2-Way Paging

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**Company name:** Nexus Telocation Systems, Ltd.  
**Project:** ERMES  
**Title:** Two-Way Pager Having Prerecorded Uplink Messages and Pager to Pager Messaging  
**Country of registration:** PCT  
**Patent no.:** GB96/00257  
**Notes:** ERMES 2-Way Paging

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**Company name:** Motorola  
**Project:** ERMES  
**Title:** Power Conservation Method and Apparatus for a Portion of an Information Signal  
**Country of registration:** EPO  
**Application no.:** EP 89913131.2

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**Company name:** Motorola  
**Project:** ERMES  
**Title:** Multiple Format Signalling Protocol for a Selective Call Receiver  
**Country of registration:** EPO  
**Application no.:** EP 92901376.1

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**Company name:** Motorola  
**Project:** ERMES  
**Title:** Nation-wide Paging with Local Modes of Operation  
**Country of registration:** EPO  
**Application no.:** EP 90915018.7

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**Company name:** Motorola  
**Project:** ERMES  
**Title:** Multiple Frequency Scanning  
**Country of registration:** EPO  
**Application no.:** EP 91904526.0

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**Company name:** Nexus Telocation Systems, Ltd.  
**Project:** ERMES  
**Title:** Remote Position Determination System  
**Country of registration:** FR  
**Patent no.:** 0583522  
**Countries applicable:** AT, FR, DE, IT, NL, GB  
**Notes:** ERMES 2-Way Paging

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**Company name:** Nexus Telocation Systems, Ltd.  
**Project:** ERMES  
**Title:** Remote Position Determination System  
**Country of registration:** EPO  
**Patent no.:** 0583522  
**Countries applicable:** AT, FR, DE, IT, NL, GB  
**Notes:** ERMES 2-Way Paging

## GMR

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**Company name:** Ericsson Mobile Communications  
**Project:** GMR  
**Title:** Power Booster  
**Country of registration:** GB  
**Patent no.:** GB 2 251 768  
**Countries applicable:** GB  
**ETSI Deliverable:** TS 101 376 (all parts & sub-parts)  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.  
 In addition to the above listed patent, Ericsson has filed patent applications in the U.S and abroad covering various features of ETSI draft technical specifications TS 101 376-AA-BB, where the suffix -AA-BB refers to all the parts and sub-parts of the above-mentioned standard. These patents, when issued, are expected to be "Essential IPRs" in relation to either or both standards. Ericsson may, from time to time, specifically identify to ETSI such IPRs when issued by the respective Patent Offices in which they are pending.

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**Company name:** Ericsson Mobile Communications  
**Project:** GMR  
**Title:** Receiver Gain  
**Country of registration:** GB  
**Patent no.:** GB 2 233 846  
**Countries applicable:** GB  
**ETSI Deliverable:** TS 101 376 (all parts & sub-parts)  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.  
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**Company name:** Ericsson Mobile Communications  
**Project:** GMR  
**Title:** Transmitter Power Control for Radio Telephone System  
**Country of registration:** GB  
**Patent no.:** GB 2 233 517  
**Countries applicable:** GB  
**ETSI Deliverable:** TS 101 376 (all parts & sub-parts)  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.  
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**Company name:** Hughes Network Systems  
**Project:** GMR  
**Title:** n/a  
**Country of registration:** US  
**Patent no.:** US Patent application pending  
**Countries applicable:** US  
**ETSI Deliverable:** TS 101 377 (all parts & sub-parts)  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.  
 Hughes Network Systems has filed patent applications in the U.S and abroad covering various features of ETSI proposed standards DTS/SES-GMR-1 (TS 101 376) and/or DTS/SES-GMR-2 (TS 101 377). These patents, when issued, are expected to be "Essential IPRs" in relation to either or both standards.

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**Company name:** Ericsson Mobile Communications  
**Project:** GMR  
**Title:** Improvements in, or in relation to, equalisers  
**Country of registration:** GB  
**Patent no.:** GB 2 215 567  
**Countries applicable:** GB  
**ETSI Deliverable:** TS 101 377 (all parts & sub-parts)  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.  
 In addition to the above listed patent, Ericsson has filed patent applications in the U.S and abroad covering various features of ETSI draft technical specifications TS 101 377-AA-BB, where the suffix -AA-BB refers to all the parts and sub-parts of the above-mentioned standard. These patents, when issued, are expected to be "Essential IPRs" in relation to either or both standards. Ericsson may, from time to time, specifically identify to ETSI such IPRs when issued by the respective Patent Offices in which they are pending.

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**Company name:** Ericsson Mobile Communications  
**Project:** GMR  
**Title:** Power Booster  
**Country of registration:** GB  
**Patent no.:** GB 2 251 768  
**Countries applicable:** GB  
**ETSI Deliverable:** TS 101 377 (all parts & sub-parts)  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.  
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<b>Company name:</b>	Ericsson Mobile Communications
<b>Project:</b>	GMR
<b>Title:</b>	Receiver Gain
<b>Country of registration:</b>	GB
<b>Patent no.:</b>	GB 2 233 846
<b>Countries applicable:</b>	GB
<b>ETSI Deliverable:</b>	TS 101 377 (all parts & sub-parts)
<b>Notes:</b>	<p>The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.</p> <p>In addition to the above listed patent, Ericsson has filed patent applications in the U.S and abroad covering various features of ETSI draft technical specifications TS 101 377-AA-BB, where the suffix -AA-BB refers to all the parts and sub-parts of the above-mentioned standard. These patents, when issued, are expected to be "Essential IPRs" in relation to either or both standards. Ericsson may, from time to time, specifically identify to ETSI such IPRs when issued by the respective Patent Offices in which they are pending.</p>

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<b>Company name:</b>	Ericsson Mobile Communications
<b>Project:</b>	GMR
<b>Title:</b>	Transmitter Power Control for Radio Telephone System
<b>Country of registration:</b>	GB
<b>Patent no.:</b>	GB 2 233 517
<b>Countries applicable:</b>	GB
<b>ETSI Deliverable:</b>	TS 101 377 (all parts & sub-parts)
<b>Notes:</b>	<p>The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.</p> <p>In addition to the above listed patent, Ericsson has filed patent applications in the U.S and abroad covering various features of ETSI draft technical specifications TS 101 377-AA-BB, where the suffix -AA-BB refers to all the parts and sub-parts of the above-mentioned standard. These patents, when issued, are expected to be "Essential IPRs" in relation to either or both standards. Ericsson may, from time to time, specifically identify to ETSI such IPRs when issued by the respective Patent Offices in which they are pending.</p>

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<b>Company name:</b>	Hughes Network Systems
<b>Project:</b>	GMR
<b>Title:</b>	n/a
<b>Country of registration:</b>	US
<b>Patent no.:</b>	US Patent application pending
<b>Countries applicable:</b>	US
<b>ETSI Deliverable:</b>	TS 101 376 (all parts & sub-parts)
<b>Notes:</b>	<p>The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.</p> <p>Hughes Network Systems has filed patent applications in the U.S and abroad covering various features of ETSI proposed standards DTS/SES-GMR-1 (TS 101 376) and/or DTS/SES-GMR-2 (TS 101 377). These patents, when issued, are expected to be "Essential IPRs" in relation to either or both standards.</p>

---

**Company name:** Ericsson Mobile Communications  
**Project:** GMR  
**Title:** Improvements in, or in relation to, equalisers  
**Country of registration:** GB  
**Patent no.:** GB 2 215 567  
**Countries applicable:** GB  
**ETSI Deliverable:** TS 101 376 (all parts & sub-parts)  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.  
 In addition to the above listed patent, Ericsson has filed patent applications in the U.S and abroad covering various features of ETSI draft technical specifications TS 101 376-AA-BB, where the suffix -AA-BB refers to all the parts and sub-parts of the above-mentioned standard. These patents, when issued, are expected to be "Essential IPRs" in relation to either or both standards. Ericsson may, from time to time, specifically identify to ETSI such IPRs when issued by the respective Patent Offices in which they are pending.

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**Company name:** Lockheed Martin Corporation  
**Project:** GMR  
**Title:** Spacecraft Cellular Communication System  
**Country of registration:** US  
**Patent no.:** 5,974,314  
**Countries applicable:** US  
**ETSI Deliverable:** TS 101 377 (all parts & sub-parts)  
**Notes:** Lockheed Martin Corporation, acting through its agent Lockheed Martin Global Telecommunications Inc., hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.  
 In addition to the above listed patent, Lockheed Martin Corporation has filed patent applications in the U.S and abroad covering various features of ETSI draft technical specification TS 101 377-AA-BB, where the suffix -AA-BB refers to all the parts and sub-parts of the above-mentioned standard. The patents that have been granted and those that will be issued, are expected to be "Essential IPRs" in relation to the standard.

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**Company name:** Digital Voice Systems Inc. (DVSI)  
**Project:** GMR  
**Title:** n/a  
**Country of registration:** US  
**Patent no.:** 5,826,222  
**Countries applicable:** US  
**ETSI Deliverable:** TS 101 376 (all parts & sub-parts)  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.  
 Digital Voice Systems, Inc. (DVSI) has issued and has pending patents, both in the United States and abroad, which cover numerous aspects of the vocoder technology included in ETSI draft technical specifications TS 101 376-AA-BB, where the suffix - AA-BB refers to all the parts and sub-parts of the above mentioned standard.

---

**Company name:** Digital Voice Systems Inc. (DVSI)  
**Project:** GMR  
**Title:** n/a  
**Country of registration:** US  
**Patent no.:** 5,826,222  
**Countries applicable:** US  
**ETSI Deliverable:** TS 101 377 (all parts & sub-parts)  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.  
 Digital Voice Systems, Inc. (DVSI) has issued and has pending patents, both in the United States and abroad, which cover numerous aspects of the vocoder technology included in ETSI draft technical specifications TS 101 377-AA-BB, where the suffix - AA-BB refers to all the parts and sub-parts of the above mentioned standard.



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**Company name:** Digital Voice Systems Inc. (DVSI)  
**Project:** GMR  
**Title:** n/a  
**Country of registration:** US  
**Patent no.:** 5,754,974  
**Countries applicable:** US  
**ETSI Deliverable:** TS 101 376 (all parts & sub-parts)  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.  
 Digital Voice Systems, Inc. (DVSI) has issued and has pending patents, both in the United States and abroad, which cover numerous aspects of the vocoder technology included in ETSI draft technical specifications TS 101 376-AA-BB, where the suffix - AA-BB refers to all the parts and sub-parts of the above mentioned standard.

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**Company name:** Digital Voice Systems Inc. (DVSI)  
**Project:** GMR  
**Title:** n/a  
**Country of registration:** US  
**Patent no.:** 5,754,974  
**Countries applicable:** US  
**ETSI Deliverable:** TS 101 377 (all parts & sub-parts)  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.  
 Digital Voice Systems, Inc. (DVSI) has issued and has pending patents, both in the United States and abroad, which cover numerous aspects of the vocoder technology included in ETSI draft technical specifications TS 101 377-AA-BB, where the suffix - AA-BB refers to all the parts and sub-parts of the above mentioned standard.

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**Company name:** Digital Voice Systems Inc. (DVSI)  
**Project:** GMR  
**Title:** n/a  
**Country of registration:** US  
**Patent no.:** 5,701,390  
**Countries applicable:** US  
**ETSI Deliverable:** TS 101 376 (all parts & sub-parts)  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.  
 Digital Voice Systems, Inc. (DVSI) has issued and has pending patents, both in the United States and abroad, which cover numerous aspects of the vocoder technology included in ETSI draft technical specifications TS 101 376-AA-BB, where the suffix - AA-BB refers to all the parts and sub-parts of the above mentioned standard.

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**Company name:** Lockheed Martin Corporation  
**Project:** GMR  
**Title:** Cellular Spacecraft TDMA Communications System with Call Interrupt Coding System for Maximizing Traffic Throughput  
**Country of registration:** US  
**Patent no.:** 5,717,686  
**Countries applicable:** US  
**ETSI Deliverable:** TS 101 376 (all parts & sub-parts)  
**Notes:** Lockheed Martin Corporation, acting through its agent Lockheed Martin Global Telecommunications Inc., hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.  
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---

**Company name:** Lockheed Martin Corporation  
**Project:** GMR  
**Title:** Cellular Spacecraft TDMA Communications System with Call Interrupt Coding System for Maximizing Traffic Throughput  
**Country of registration:** US  
**Patent no.:** 5,717,686  
**Countries applicable:** US  
**ETSI Deliverable:** TS 101 377 (all parts & sub-parts)  
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**Company name:** Lockheed Martin Corporation  
**Project:** GMR  
**Title:** Enhanced Access Burst for Random Access Channels in TDMA Mobile Satellite System  
**Country of registration:** US  
**Patent no.:** 5,875,182  
**Countries applicable:** US  
**ETSI Deliverable:** TS 101 376 (all parts & sub-parts)  
**Notes:** Lockheed Martin Corporation, acting through its agent Lockheed Martin Global Telecommunications Inc., hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL. In addition to the above listed patent, Lockheed Martin Corporation has filed patent applications in the U.S and abroad covering various features of ETSI draft technical specification TS 101 376-AA-BB, where the suffix -AA-BB refers to all the parts and sub-parts of the above-mentioned standard. The patents that have been granted and those that will be issued, are expected to be "Essential IPRs" in relation to the standard.

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**Company name:** Digital Voice Systems Inc. (DVSI)  
**Project:** GMR  
**Title:** n/a  
**Country of registration:** US  
**Patent no.:** 5,715,365  
**Countries applicable:** US  
**ETSI Deliverable:** TS 101 377 (all parts & sub-parts)  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.  
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---

**Company name:** Lockheed Martin Corporation  
**Project:** GMR  
**Title:** Spacecraft Cellular Communication System  
**Country of registration:** US  
**Patent no.:** 5,974,314  
**Countries applicable:** US  
**ETSI Deliverable:** TS 101 376 (all parts & sub-parts)  
**Notes:** Lockheed Martin Corporation, acting through its agent Lockheed Martin Global Telecommunications Inc., hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL. In addition to the above listed patent, Lockheed Martin Corporation has filed patent applications in the U.S and abroad covering various features of ETSI draft technical specification TS 101 376-AA-BB, where the suffix -AA-BB refers to all the parts and sub-parts of the above-mentioned standard. The patents that have been granted and those that will be issued, are expected to be "Essential IPRs" in relation to the standard.

---

**Company name:** Digital Voice Systems Inc. (DVSI)  
**Project:** GMR  
**Title:** n/a  
**Country of registration:** US  
**Patent no.:** 5,701,390  
**Countries applicable:** US  
**ETSI Deliverable:** TS 101 377 (all parts & sub-parts)  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.  
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---

**Company name:** Lockheed Martin Corporation  
**Project:** GMR  
**Title:** Spacecraft Cellular Communication System  
**Country of registration:** US  
**Patent no.:** 5, 974,315  
**Countries applicable:** US  
**ETSI Deliverable:** TS 101 376 (all parts & sub-parts)  
**Notes:** Lockheed Martin Corporation, acting through its agent Lockheed Martin Global Telecommunications Inc., hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL. In addition to the above listed patent, Lockheed Martin Corporation has filed patent applications in the U.S and abroad covering various features of ETSI draft technical specification TS 101 376-AA-BB, where the suffix -AA-BB refers to all the parts and sub-parts of the above-mentioned standard. The patents that have been granted and those that will be issued, are expected to be "Essential IPRs" in relation to the standard.

---

**Company name:** Lockheed Martin Corporation  
**Project:** GMR  
**Title:** Spacecraft Cellular Communication System  
**Country of registration:** US  
**Patent no.:** 5, 974,315  
**Countries applicable:** US  
**ETSI Deliverable:** TS 101 377 (all parts & sub-parts)  
**Notes:** Lockheed Martin Corporation, acting through its agent Lockheed Martin Global Telecommunications Inc., hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL. In addition to the above listed patent, Lockheed Martin Corporation has filed patent applications in the U.S and abroad covering various features of ETSI draft technical specification TS 101 377-AA-BB, where the suffix -AA-BB refers to all the parts and sub-parts of the above-mentioned standard. The patents that have been granted and those that will be issued, are expected to be "Essential IPRs" in relation to the standard.

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**Company name:** Lockheed Martin Corporation  
**Project:** GMR  
**Title:** Spacecraft Cellular Communication System with Mutual Offset High-Margin Forward Control Signals  
**Country of registration:** US  
**Patent no.:** 6,072,985  
**Countries applicable:** US  
**ETSI Deliverable:** TS 101 376 (all parts & sub-parts)  
**Notes:** Lockheed Martin Corporation, acting through its agent Lockheed Martin Global Telecommunications Inc., hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL. In addition to the above listed patent, Lockheed Martin Corporation has filed patent applications in the U.S and abroad covering various features of ETSI draft technical specification TS 101 376-AA-BB, where the suffix -AA-BB refers to all the parts and sub-parts of the above-mentioned standard. The patents that have been granted and those that will be issued, are expected to be "Essential IPRs" in relation to the standard.

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**Company name:** Lockheed Martin Corporation  
**Project:** GMR  
**Title:** Spacecraft Cellular Communication System with Mutual Offset High-Margin Forward Control Signals  
**Country of registration:** US  
**Patent no.:** 6,072,985  
**Countries applicable:** US  
**ETSI Deliverable:** TS 101 377 (all parts & sub-parts)  
**Notes:** Lockheed Martin Corporation, acting through its agent Lockheed Martin Global Telecommunications Inc., hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL. In addition to the above listed patent, Lockheed Martin Corporation has filed patent applications in the U.S and abroad covering various features of ETSI draft technical specification TS 101 377-AA-BB, where the suffix -AA-BB refers to all the parts and sub-parts of the above-mentioned standard. The patents that have been granted and those that will be issued, are expected to be "Essential IPRs" in relation to the standard.

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**Company name:** Lockheed Martin Corporation  
**Project:** GMR  
**Title:** 2.4-to-3 KBPS Rate Adaptation Apparatus for Use in Narrowband Data and Facsimile Communication Systems  
**Country of registration:** US  
**Patent no.:** 6,108,348  
**Countries applicable:** US  
**ETSI Deliverable:** TS 101 376 (all parts & sub-parts)  
**Notes:** Lockheed Martin Corporation, acting through its agent Lockheed Martin Global Telecommunications Inc., hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL. In addition to the above listed patent, Lockheed Martin Corporation has filed patent applications in the U.S and abroad covering various features of ETSI draft technical specification TS 101 376-AA-BB, where the suffix -AA-BB refers to all the parts and sub-parts of the above-mentioned standard. The patents that have been granted and those that will be issued, are expected to be "Essential IPRs" in relation to the standard.

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**Company name:** Lockheed Martin Corporation  
**Project:** GMR  
**Title:** 2.4-to-3 KBPS Rate Adaptation Apparatus for Use in Narrowband Data and Facsimile Communication Systems  
**Country of registration:** US  
**Patent no.:** 6,108,348  
**Countries applicable:** US  
**ETSI Deliverable:** TS 101 377 (all parts & sub-parts)  
**Notes:** Lockheed Martin Corporation, acting through its agent Lockheed Martin Global Telecommunications Inc., hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL. In addition to the above listed patent, Lockheed Martin Corporation has filed patent applications in the U.S and abroad covering various features of ETSI draft technical specification TS 101 377-AA-BB, where the suffix -AA-BB refers to all the parts and sub-parts of the above-mentioned standard. The patents that have been granted and those that will be issued, are expected to be "Essential IPRs" in relation to the standard.

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**Company name:** Lockheed Martin Corporation  
**Project:** GMR  
**Title:** Spacecraft Cellular Communication System with Spot Beam Pairing for Reduced Updates  
**Country of registration:** US  
**Patent no.:** 6,118,998  
**Countries applicable:** US  
**ETSI Deliverable:** TS 101 376 (all parts & sub-parts)  
**Notes:** Lockheed Martin Corporation, acting through its agent Lockheed Martin Global Telecommunications Inc., hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL. In addition to the above listed patent, Lockheed Martin Corporation has filed patent applications in the U.S and abroad covering various features of ETSI draft technical specification TS 101 376-AA-BB, where the suffix -AA-BB refers to all the parts and sub-parts of the above-mentioned standard. The patents that have been granted and those that will be issued, are expected to be "Essential IPRs" in relation to the standard.

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**Company name:** Lockheed Martin Corporation  
**Project:** GMR  
**Title:** Spacecraft Cellular Communication System with Spot Beam Pairing for Reduced Updates  
**Country of registration:** US  
**Patent no.:** 6,118,998  
**Countries applicable:** US  
**ETSI Deliverable:** TS 101 377 (all parts & sub-parts)  
**Notes:** Lockheed Martin Corporation, acting through its agent Lockheed Martin Global Telecommunications Inc., hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL. In addition to the above listed patent, Lockheed Martin Corporation has filed patent applications in the U.S and abroad covering various features of ETSI draft technical specification TS 101 377-AA-BB, where the suffix -AA-BB refers to all the parts and sub-parts of the above-mentioned standard. The patents that have been granted and those that will be issued, are expected to be "Essential IPRs" in relation to the standard.

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**Company name:** Lockheed Martin Corporation  
**Project:** GMR  
**Title:** Enhanced Access Burst for Random Access Channels in TDMA Mobile Satellite System  
**Country of registration:** US  
**Patent no.:** 5,875,182  
**Countries applicable:** US  
**ETSI Deliverable:** TS 101 377 (all parts & sub-parts)  
**Notes:** Lockheed Martin Corporation, acting through its agent Lockheed Martin Global Telecommunications Inc., hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL. In addition to the above listed patent, Lockheed Martin Corporation has filed patent applications in the U.S and abroad covering various features of ETSI draft technical specification TS 101 377-AA-BB, where the suffix -AA-BB refers to all the parts and sub-parts of the above-mentioned standard. The patents that have been granted and those that will be issued, are expected to be "Essential IPRs" in relation to the standard.

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**Company name:** Digital Voice Systems Inc. (DVSI)  
**Project:** GMR  
**Title:** n/a  
**Country of registration:** US  
**Patent no.:** 5,226,084  
**Countries applicable:** US  
**ETSI Deliverable:** TS 101 377 (all parts & sub-parts)  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL. Digital Voice Systems, Inc. (DVSI) has issued and has pending patents, both in the United States and abroad, which cover numerous aspects of the vocoder technology included in ETSI draft technical specifications TS 101 377-AA-BB, where the suffix - AA-BB refers to all the parts and sub-parts of the above mentioned standard.

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**Company name:** Digital Voice Systems Inc. (DVSI)  
**Project:** GMR  
**Title:** n/a  
**Country of registration:** US  
**Patent no.:** 5,715,365  
**Countries applicable:** US  
**ETSI Deliverable:** TS 101 376 (all parts & sub-parts)  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.  
Digital Voice Systems, Inc. (DVSI) has issued and has pending patents, both in the United States and abroad, which cover numerous aspects of the vocoder technology included in ETSI draft technical specifications TS 101 376-AA-BB, where the suffix - AA-BB refers to all the parts and sub-parts of the above mentioned standard.

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**Company name:** Digital Voice Systems Inc. (DVSI)  
**Project:** GMR  
**Title:** n/a  
**Country of registration:** US  
**Patent no.:** 5,226,084  
**Countries applicable:** US  
**ETSI Deliverable:** TS 101 376 (all parts & sub-parts)  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.  
Digital Voice Systems, Inc. (DVSI) has issued and has pending patents, both in the United States and abroad, which cover numerous aspects of the vocoder technology included in ETSI draft technical specifications TS 101 376-AA-BB, where the suffix - AA-BB refers to all the parts and sub-parts of the above mentioned standard.

## GPRS

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**Company name:** SIEMENS  
**Project:** GPRS  
**Title:** Method for administering additional services in a mobile communication network  
**Country of registration:** DE  
**Application no.:** EP 0 793 394  
**Countries applicable:** EPO  
**ETSI Deliverable:** GSM 03.18 V6.5.0  
 GSM 03.16 V7.2.0  
 GSM 03.78 V6.1.1  
 TS 29.002 V3.6.0  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GPRS  
**Title:** Process for transmitting data packets from mobile stations to base stations in mobile radio systems operated on the time multiplex system  
**Country of registration:** DE  
**Patent no.:** DE 195 34 15  
**Countries applicable:** DE  
**ETSI Deliverable:** GSM 03.64 V6.0.1  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GPRS  
**Title:** Method and arrangement for transmitting data between a cellularly constructed mobile radiotelephone network and a mobile subscriber station  
**Country of registration:** DE  
**Application no.:** EP 0 771 125  
**Countries applicable:** EPO  
**ETSI Deliverable:** GSM 03.64 V6.0.1  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

---

**Company name:** SIEMENS  
**Project:** GPRS  
**Title:** Method and arrangement for transmitting data between a cellularly constructed mobile radiotelephone network and a mobile subscriber station  
**Country of registration:** DE  
**Patent no.:** US 5 943 327  
**Countries applicable:** US  
**ETSI Deliverable:** GSM 03.64 V6.0.1  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GPRS  
**Title:** Method and radio station for the transmission of data by way of a GSM mobile radio network  
**Country of registration:** DE  
**Application no.:** WO97/24891  
**Countries applicable:** EPO  
**ETSI Deliverable:** GSM 03.64 V6.0.1  
 GSM 04.08 V6.7.0  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GPRS  
**Title:** Method and radio station for the transmission of data by way of a GSM mobile radio network  
**Country of registration:** DE  
**Application no.:** CN / 1212107  
**Countries applicable:** CN  
**ETSI Deliverable:** GSM 03.64 V6.0.1  
 GSM 04.08 V6.7.0  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GPRS  
**Title:** Method and radio station for the transmission of data by way of a GSM mobile radio network  
**Country of registration:** DE  
**Patent no.:** DE 195 49 009  
**Countries applicable:** DE  
**ETSI Deliverable:** GSM 03.64 V6.0.1  
 GSM 04.08 V6.7.0  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GPRS  
**Title:** Method and radio station for the transmission of data by way of a GSM mobile radio network  
**Country of registration:** DE  
**Patent no.:** US 6 138 028  
**Countries applicable:** US  
**ETSI Deliverable:** GSM 03.64 V6.0.1  
 GSM 04.08 V6.7.0  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.



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**Company name:** SIEMENS  
**Project:** GPRS  
**Title:** Process and device for data transmission in a cellular radio system  
**Country of registration:** DE  
**Application no.:** WO97/25827  
**Countries applicable:** US  
**ETSI Deliverable:** GSM 03.64 V6.0.1  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GPRS  
**Title:** Process and device for data transmission in a cellular radio system  
**Country of registration:** DE  
**Application no.:** EP 0 872 148  
**Countries applicable:** EPO  
**ETSI Deliverable:** GSM 03.64 V6.0.1  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GPRS  
**Title:** Process and device for data transmission in a cellular radio system  
**Country of registration:** DE  
**Application no.:** CN / 1207231  
**Countries applicable:** CN  
**ETSI Deliverable:** GSM 03.64 V6.0.1  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GPRS  
**Title:** Process and device for data transmission in a cellular radio system  
**Country of registration:** DE  
**Patent no.:** DE 196 00 197  
**Countries applicable:** DE  
**ETSI Deliverable:** GSM 03.64 V6.0.1  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** De Te Mobil GmbH  
**Project:** GPRS  
**Title:** Verfahren zur paketweisen Datenübermittlung in einem Mobilfunknetz  
**Country of registration:** PCT  
**Application no.:** PCT/DE/00121  
**Countries applicable:** AT, BE, CH, LI, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, AU, BG, BR, CA, CN, CZ, JP, KR, PL, RU, SK, UA, US

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**Company name:** SIEMENS  
**Project:** GPRS  
**Title:** Method for administering additional services in a mobile communication network  
**Country of registration:** DE  
**Application no.:** CN / 1160330  
**Countries applicable:** CN  
**ETSI Deliverable:** GSM 03.18 V6.5.0  
 GSM 03.16 V7.2.0  
 GSM 03.78 V6.1.1  
 TS 29.002 V3.6.0  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GPRS  
**Title:** Method for administering additional services in a mobile communication network  
**Country of registration:** DE  
**Application no.:** IN / 266/CAL/97  
**Countries applicable:** IN  
**ETSI Deliverable:** GSM 03.18 V6.5.0  
 GSM 03.16 V7.2.0  
 GSM 03.78 V6.1.1  
 TS 29.002 V3.6.0  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GPRS  
**Title:** GPRS continuous timing advance update  
**Country of registration:** DE  
**Application no.:** WO98/23105  
**Countries applicable:** US  
**ETSI Deliverable:** GSM 03.64  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GPRS  
**Title:** Quality of Service dependent paging in GPRS  
**Country of registration:** DE  
**Application no.:** EP 0 974 236  
**Countries applicable:** EPO  
**ETSI Deliverable:** GSM 05.02, V7.3.0  
 GSM 04.60, V7.2.0  
 GSM 03.64, V7.1.0  
 GSM 08.18, V7.2.0  
 GSM 04.08, V7.4.0  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GPRS  
**Title:** Interception in wireless networks  
**Country of registration:** DE  
**Application no.:** CN / 1271501  
**Countries applicable:** CN  
**ETSI Deliverable:** GSM 03.33 V7.1.0  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GPRS  
**Title:** Interception in wireless networks  
**Country of registration:** DE  
**Application no.:** EP 1 016 304  
**Countries applicable:** EPO  
**ETSI Deliverable:** GSM 03.33 V7.1.0  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GPRS  
**Title:** Method and mobile communication system for supporting portability of a mobile subscriber telephone number  
**Country of registration:** DE  
**Patent no.:** DE 197 09 713  
**Countries applicable:** DE  
**ETSI Deliverable:** GSM 03.66 V7.3.1  
 GSM 02.66 V7.1.0  
 TS 22.066 V3.0.1  
 TS 23.066 V3.1.0  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GPRS  
**Title:** Quality of Service dependent paging in GPRS  
**Country of registration:** DE  
**Patent no.:** ZA / 98/1425  
**Countries applicable:** ZA  
**ETSI Deliverable:** GSM 05.02, V7.3.0  
 GSM 04.60, V7.2.0  
 GSM 03.64, V7.1.0  
 GSM 08.18, V7.2.0  
 GSM 04.08, V7.4.0  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GPRS  
**Title:** Process and device for data transmission in a cellular radio system  
**Country of registration:** DE  
**Application no.:** RU / 98114847  
**Countries applicable:** RU  
**ETSI Deliverable:** GSM 03.64 V6.0.1  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GPRS  
**Title:** Method for the use of services by network subscribers  
**Country of registration:** DE  
**Application no.:** FI / 955737  
**Countries applicable:** FI  
**ETSI Deliverable:** GSM 03.78 V6.1.1  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GPRS  
**Title:** Telecommunications network as well as subscriber stations and central station for a Telecommunications network  
**Country of registration:** DE  
**Patent no.:** DE 36 38 735  
**Countries applicable:** DE  
**ETSI Deliverable:** GSM 03.03 V7.5.0  
 GSM 02.16 V7.2.0  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GPRS  
**Title:** Device for point-to-point wire-free transmission of speech  
**Country of registration:** DE  
**Patent no.:** DE 32 25 443  
**Countries applicable:** DE  
**ETSI Deliverable:** GSM 05.05 V8.3.0  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GPRS  
**Title:** Method for jam-resistant communication transmission  
**Country of registration:** DE  
**Patent no.:** US 4 843 612  
**Countries applicable:** US  
**ETSI Deliverable:** GSM 06.31 V8.0.0  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GPRS  
**Title:** Method for jam-resistant communication transmission  
**Country of registration:** DE  
**Patent no.:** CA 1238951  
**Countries applicable:** CA  
**ETSI Deliverable:** GSM 06.31 V8.0.0  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GPRS  
**Title:** Method and system for determining the location of a mobile radio communication subscriber registered in a cellular mobile radiotelephone network  
**Country of registration:** DE  
**Application no.:** IN / 1533/CAL/97  
**Countries applicable:** IN  
**ETSI Deliverable:** GSM 03.79 V5.2.0  
 TS 23.079 V3.3.0  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GPRS  
**Title:** Method and system for determining the location of a mobile radio communication subscriber registered in a cellular mobile radiotelephone network  
**Country of registration:** DE  
**Application no.:** CN / 1180285  
**Countries applicable:** CN  
**ETSI Deliverable:** GSM 03.79 V5.2.0  
 TS 23.079 V3.3.0  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GPRS  
**Title:** Process and base station system for configuring an air interface between a mobile station and a base station in a time-division multiplex mobile radio telephone system for packet data transmission  
**Country of registration:** DE  
**Application no.:** CN / 1238104  
**Countries applicable:** CN  
**ETSI Deliverable:** GSM 03.64 V6.0.1  
 GSM 04.60 V8.4.1  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GPRS  
**Title:** Method and system for determining the location of a mobile radio communication subscriber registered in a cellular mobile radiotelephone network  
**Country of registration:** DE  
**Application no.:** EP 0 827 355  
**Countries applicable:** EPO  
**ETSI Deliverable:** GSM 03.79 V5.2.0  
 TS 23.079 V3.3.0  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GPRS  
**Title:** Method for administering additional services in a mobile communication network  
**Country of registration:** DE  
**Patent no.:** ZA / 97/1770  
**Countries applicable:** ZA  
**ETSI Deliverable:** GSM 03.18 V6.5.0  
 GSM 03.16 V7.2.0  
 GSM 03.78 V6.1.1  
 TS 29.002 V3.6.0  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GPRS  
**Title:** Method for administering additional services in a mobile communication network  
**Country of registration:** DE  
**Patent no.:** US 6 085 105  
**Countries applicable:** US  
**ETSI Deliverable:** GSM 03.18 V6.5.0  
 GSM 03.16 V7.2.0  
 GSM 03.78 V6.1.1  
 TS 29.002 V3.6.0  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GPRS  
**Title:** Process for transmitting data packets from mobile stations to base stations in mobile radio systems operated on the time multiplex system  
**Country of registration:** DE  
**Application no.:** IN / 1555/CAL/96  
**Countries applicable:** IN  
**ETSI Deliverable:** GSM 03.64 V6.0.1  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GPRS  
**Title:** Method for setting up a connection between a plurality of cellular networks  
**Country of registration:** DE  
**Patent no.:** EP 0 675 663  
**Countries applicable:** EPO  
**ETSI Deliverable:** GSM 03.18 V6.5.0  
GSM 02.79 V6.0.0  
TS 22.079 V3.0.1  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** De Te Mobil GmbH  
**Project:** GPRS  
**Title:** Verfahren zur paketweisen Datenübermittlung in einem Mobilfunknetz  
**Country of registration:** DE  
**Application no.:** DE 44 02 903  
**Countries applicable:** DE

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**Company name:** SIEMENS  
**Project:** GPRS  
**Title:** Method for the use of services by network subscribers  
**Country of registration:** DE  
**Patent no.:** EP 0 715 473  
**Countries applicable:** EPO  
**ETSI Deliverable:** GSM 03.78 V6.1.1  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GPRS  
**Title:** Method for the transmission of subscriber data between network nodes in at least one communications network supporting the structure of an intelligent network  
**Country of registration:** DE  
**Application no.:** EP 0 732 861  
**Countries applicable:** EPO  
**ETSI Deliverable:** GSM 03.78 V6.1.1  
TS 29.002 V3.6.0  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GPRS  
**Title:** Method for the transmission of subscriber data between network nodes in at least one communications network supporting the structure of an intelligent network  
**Country of registration:** DE  
**Application no.:** FI / 961174  
**Countries applicable:** FI  
**ETSI Deliverable:** GSM 03.78 V6.1.1  
 TS 29.002 V3.6.0  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GPRS  
**Title:** Method for the transmission of subscriber data between network nodes in at least one communications network supporting the structure of an intelligent network  
**Country of registration:** DE  
**Application no.:** CN / 1137714  
**Countries applicable:** CN  
**ETSI Deliverable:** GSM 03.78 V6.1.1  
 TS 29.002 V3.6.0  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GPRS  
**Title:** Method for the transmission of subscriber data between network nodes in at least one communications network supporting the structure of an intelligent network  
**Country of registration:** DE  
**Patent no.:** US 5 839 076  
**Countries applicable:** US  
**ETSI Deliverable:** GSM 03.78 V6.1.1  
 TS 29.002 V3.6.0  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GPRS  
**Title:** Method for the transmission of subscriber data between network nodes in at least one communications network supporting the structure of an intelligent network  
**Country of registration:** DE  
**Patent no.:** DE 19509000  
**Countries applicable:** DE  
**ETSI Deliverable:** GSM 03.78 V6.1.1  
 TS 29.002 V3.6.0  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.



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**Company name:** SIEMENS  
**Project:** GPRS  
**Title:** Method of transmitting data packets according to a packet data service in a cellular mobile radio network provided for voice and data-transmission  
**Country of registration:** DE  
**Application no.:** WO97/02712  
**Countries applicable:** CN, EPO, US  
**ETSI Deliverable:** GSM 08.18 V8.3.0  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GPRS  
**Title:** Method of transmitting data packets according to a packet data service in a cellular mobile radio network provided for voice and data-transmission  
**Country of registration:** DE  
**Patent no.:** DE 195 24 659  
**Countries applicable:** DE  
**ETSI Deliverable:** GSM 08.18 V8.3.0  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GPRS  
**Title:** Process for transmitting data packets from mobile stations to base stations in mobile radio systems operated on the time multiplex system  
**Country of registration:** DE  
**Application no.:** WO97/10685  
**Countries applicable:** US, EPO  
**ETSI Deliverable:** GSM 03.64 V6.0.1  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GPRS  
**Title:** Process for transmitting data packets from mobile stations to base stations in mobile radio systems operated on the time multiplex system  
**Country of registration:** DE  
**Application no.:** TW / 85111034  
**Countries applicable:** TW  
**ETSI Deliverable:** GSM 03.64 V6.0.1  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GPRS  
**Title:** Interception in wireless networks  
**Country of registration:** DE  
**Patent no.:** DE 197 41 216  
**Countries applicable:** DE  
**ETSI Deliverable:** GSM 03.33 V7.1.0  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GPRS  
**Title:** Method for administering additional services in a mobile communication network  
**Country of registration:** DE  
**Patent no.:** DE 196 08 464  
**Countries applicable:** DE  
**ETSI Deliverable:** GSM 03.18 V6.5.0  
 GSM 03.16 V7.2.0  
 GSM 03.78 V6.1.1  
 TS 29.002 V3.6.0  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GPRS  
**Title:** Method, mobile station and radio communication system for controlling safety related functions in communication handling  
**Country of registration:** DE  
**Application no.:** EP 1 064 810  
**Countries applicable:** EPO  
**ETSI Deliverable:** GSM 04.08 V6.7.0  
 GSM 02.07 V6.1.0  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GPRS  
**Title:** Method and arrangement for transmitting information in a digital radio system  
**Country of registration:** DE  
**Patent no.:** US 5 648 967  
**Countries applicable:** US  
**ETSI Deliverable:** GSM 03.64, V6.0.1  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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<b>Company name:</b>	SIEMENS
<b>Project:</b>	GPRS
<b>Title:</b>	Method and arrangement for transmitting information in a digital radio system
<b>Country of registration:</b>	DE
<b>Patent no.:</b>	EP 0 671 824
<b>Countries applicable:</b>	FI, EPO
<b>ETSI Deliverable:</b>	GSM 03.64, V6.0.1
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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<b>Company name:</b>	SIEMENS
<b>Project:</b>	GPRS
<b>Title:</b>	Process and base station system for configuring an air interface between a mobile station and a base station in a time-division multiplex mobile radio telephone system for packet data transmission
<b>Country of registration:</b>	DE
<b>Application no.:</b>	IN / 2159/CAL/97
<b>Countries applicable:</b>	IN
<b>ETSI Deliverable:</b>	GSM 03.64 V6.0.1 GSM 04.60 V8.4.1
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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<b>Company name:</b>	SIEMENS
<b>Project:</b>	GPRS
<b>Title:</b>	Process and base station system for configuring an air interface between a mobile station and a base station in a time-division multiplex mobile radio telephone system for packet data transmission
<b>Country of registration:</b>	DE
<b>Application no.:</b>	EP 0 938 820
<b>Countries applicable:</b>	EPO
<b>ETSI Deliverable:</b>	GSM 03.64 V6.0.1 GSM 04.60 V8.4.1
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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<b>Company name:</b>	SIEMENS
<b>Project:</b>	GPRS
<b>Title:</b>	Process and base station system for configuring an air interface between a mobile station and a base station in a time-division multiplex mobile radio telephone system for packet data transmission
<b>Country of registration:</b>	DE
<b>Application no.:</b>	WO98/23106
<b>Countries applicable:</b>	BR, SG, UA, US
<b>ETSI Deliverable:</b>	GSM 03.64 V6.0.1 GSM 05.02 V6.2.0
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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<b>Company name:</b>	SIEMENS
<b>Project:</b>	GPRS
<b>Title:</b>	Method and mobile communication system for routeing of call connections
<b>Country of registration:</b>	DE
<b>Application no.:</b>	DE 19635581
<b>Countries applicable:</b>	DE
<b>ETSI Deliverable:</b>	GSM 03.18 V6.5.0 GSM 03.79 V5.2.0 TS 23.079 V3.3.0
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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<b>Company name:</b>	SIEMENS
<b>Project:</b>	GPRS
<b>Title:</b>	Process and base station system for configuring an air interface between a mobile station and a base station in a time-division multiplex mobile radio telephone system for packet data transmission
<b>Country of registration:</b>	DE
<b>Application no.:</b>	WO98/23104
<b>Countries applicable:</b>	US
<b>ETSI Deliverable:</b>	GSM 03.64 V6.0.1 GSM 04.60 V8.4.1
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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<b>Company name:</b>	SIEMENS
<b>Project:</b>	GPRS
<b>Title:</b>	Method and system for determining the location of a mobile radio communication subscriber registered in a cellular mobile radiotelephone network
<b>Country of registration:</b>	DE
<b>Patent no.:</b>	JP 2977154
<b>Countries applicable:</b>	JP
<b>ETSI Deliverable:</b>	GSM 03.79 V5.2.0 TS 23.079 V3.3.0
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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<b>Company name:</b>	SIEMENS
<b>Project:</b>	GPRS
<b>Title:</b>	Method and mobile communication system for routeing of call connections
<b>Country of registration:</b>	DE
<b>Application no.:</b>	EP 0 878 109
<b>Countries applicable:</b>	EPO
<b>ETSI Deliverable:</b>	GSM 03.18 V6.5.0 GSM 03.79 V5.2.0 TS 23.079 V3.3.0
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GPRS  
**Title:** Method, mobile station and radio communication system for controlling safety related functions in communication handling  
**Country of registration:** DE  
**Application no.:** DE 19812215  
**Countries applicable:** DE  
**ETSI Deliverable:** GSM 04.08 V6.7.0  
 GSM 02.07 V6.1.0  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GPRS  
**Title:** Method, mobile station and radio communication system for controlling safety related functions in communication handling  
**Country of registration:** DE  
**Application no.:** WO99/48318  
**Countries applicable:** US  
**ETSI Deliverable:** GSM 04.08 V6.7.0  
 GSM 02.07 V6.1.0  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GPRS  
**Title:** GPRS continuous timing advance update  
**Country of registration:** DE  
**Patent no.:** ZA / 97/10371  
**Countries applicable:** ZA  
**ETSI Deliverable:** GSM 03.64  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GPRS  
**Title:** Method and system for determining the location of a mobile radio communication subscriber registered in a cellular mobile radiotelephone network  
**Country of registration:** DE  
**Patent no.:** DE 19635581  
**Countries applicable:** DE  
**ETSI Deliverable:** GSM 03.79 V5.2.0  
 TS 23.079 V3.3.0  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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<b>Company name:</b>	SIEMENS
<b>Project:</b>	GPRS
<b>Title:</b>	Method and system for determining the location of a mobile radio communication subscriber registered in a cellular mobile radiotelephone network
<b>Country of registration:</b>	DE
<b>Application no.:</b>	KR / 24254/98
<b>Countries applicable:</b>	KR
<b>ETSI Deliverable:</b>	GSM 03.79 V5.2.0 TS 23.079 V3.3.0
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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<b>Company name:</b>	SIEMENS
<b>Project:</b>	GPRS
<b>Title:</b>	GPRS continuous timing advance update
<b>Country of registration:</b>	DE
<b>Patent no.:</b>	TW / 104001
<b>Countries applicable:</b>	TW
<b>ETSI Deliverable:</b>	GSM 03.64
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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<b>Company name:</b>	SIEMENS
<b>Project:</b>	GPRS
<b>Title:</b>	Process and base station system for configuring an air interface between a mobile station and a base station in a time-division multiplex mobile radio telephone system for packet data transmission
<b>Country of registration:</b>	DE
<b>Patent no.:</b>	ZA / 97/10374
<b>Countries applicable:</b>	ZA
<b>ETSI Deliverable:</b>	GSM 03.64 V6.0.1 GSM 04.60 V8.4.1
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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<b>Company name:</b>	SIEMENS
<b>Project:</b>	GPRS
<b>Title:</b>	GPRS continuous timing advance update
<b>Country of registration:</b>	DE
<b>Application no.:</b>	EP 0 938 821
<b>Countries applicable:</b>	EPO
<b>ETSI Deliverable:</b>	GSM 03.64
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GPRS  
**Title:** Method, mobile station and radio communication system for controlling safety related functions in communication handling  
**Country of registration:** DE  
**Application no.:** KR / 7010361/00  
**Countries applicable:** KR  
**ETSI Deliverable:** GSM 04.08 V6.7.0  
 GSM 02.07 V6.1.0  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GPRS  
**Title:** Quality of Service dependent paging in GPRS  
**Country of registration:** DE  
**Patent no.:** DE 19707261  
**Countries applicable:** DE  
**ETSI Deliverable:** GSM 05.02, V7.3.0  
 GSM 04.60, V7.2.0  
 GSM 03.64, V7.1.0  
 GSM 08.18, V7.2.0  
 GSM 04.08, V7.4.0  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GPRS  
**Title:** Method and system for determining the location of a mobile radio communication subscriber registered in a cellular mobile radiotelephone network  
**Country of registration:** DE  
**Patent no.:** US 6 035 198  
**Countries applicable:** US  
**ETSI Deliverable:** GSM 03.79 V5.2.0  
 TS 23.079 V3.3.0  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GPRS  
**Title:** GPRS continuous timing advance update  
**Country of registration:** DE  
**Application no.:** AU / 73051/98  
**Countries applicable:** AU  
**ETSI Deliverable:** GSM 03.64  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GPRS  
**Title:** GPRS continuous timing advance update  
**Country of registration:** DE  
**Application no.:** AR / P970105383  
**Countries applicable:** AR  
**ETSI Deliverable:** GSM 03.64  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GPRS  
**Title:** Method, mobile station and radio communication system for controlling safety related functions in communication handling  
**Country of registration:** DE  
**Application no.:** JP / 12-537394  
**Countries applicable:** JP  
**ETSI Deliverable:** GSM 04.08 V6.7.0  
 GSM 02.07 V6.1.0  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GPRS  
**Title:** Process and base station system for configuring an air interface between a mobile station and a base station in a time-division multiplex mobile radio telephone system for packet data transmission  
**Country of registration:** DE  
**Application no.:** EP 0 938 822  
**Countries applicable:** EPO  
**ETSI Deliverable:** GSM 03.64 V6.0.1  
 GSM 05.02 V6.2.0  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GPRS  
**Title:** Process and base station system for configuring an air interface between a mobile station and a base station in a time-division multiplex mobile radio telephone system for packet data transmission  
**Country of registration:** DE  
**Application no.:** CN / 1238107  
**Countries applicable:** CN  
**ETSI Deliverable:** GSM 03.64 V6.0.1  
 GSM 05.02 V6.2.0  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.



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**Company name:** SIEMENS  
**Project:** GPRS  
**Title:** Process and base station system for configuring an air interface between a mobile station and a base station in a time-division multiplex mobile radio telephone system for packet data transmission  
**Country of registration:** DE  
**Application no.:** IN / 2160/CAL/97  
**Countries applicable:** IN  
**ETSI Deliverable:** GSM 03.64 V6.0.1  
 GSM 05.02 V6.2.0  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GPRS  
**Title:** Quality of Service dependent paging in GPRS  
**Country of registration:** DE  
**Application no.:** WO98/38818  
**Countries applicable:** US  
**ETSI Deliverable:** GSM 05.02, V7.3.0  
 GSM 04.60, V7.2.0  
 GSM 03.64, V7.1.0  
 GSM 08.18, V7.2.0  
 GSM 04.08, V7.4.0  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GPRS  
**Title:** Method and mobile communication system for routing of call connections  
**Country of registration:** DE  
**Application no.:** WO98/23117  
**Countries applicable:** US  
**ETSI Deliverable:** GSM 03.18 V6.5.0  
 GSM 03.79 V5.2.0  
 TS 23.079 V3.3.0  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GPRS  
**Title:** Process and base station system for configuring an air interface between a mobile station and a base station in a time-division multiplex mobile radio telephone system for packet data transmission  
**Country of registration:** DE  
**Patent no.:** DE 19647629  
**Countries applicable:** DE  
**ETSI Deliverable:** GSM 03.64 V6.0.1  
 GSM 05.02 V6.2.0  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GPRS  
**Title:** GPRS continuous timing advance update  
**Country of registration:** DE  
**Application no.:** IN / 2158/CAL/97  
**Countries applicable:** IN  
**ETSI Deliverable:** GSM 03.64  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GPRS  
**Title:** GPRS continuous timing advance update  
**Country of registration:** DE  
**Application no.:** CN / 1238108  
**Countries applicable:** CN  
**ETSI Deliverable:** GSM 03.64  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GPRS  
**Title:** Process and base station system for configuring an air interface between a mobile station and a base station in a time-division multiplex mobile radio telephone system for packet data transmission  
**Country of registration:** DE  
**Patent no.:** ZA / 97/1037  
**Countries applicable:** ZA  
**ETSI Deliverable:** GSM 03.64 V6.0.1  
GSM 05.02 V6.2.0  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

## GSM

<b>Company name:</b>	BT
<b>Project:</b>	GSM
<b>Title:</b>	Telecommunications System
<b>Country of registration:</b>	SG
<b>Application no.:</b>	9603021-8
<b>Countries applicable:</b>	SG
<b>ETSI Deliverable:</b>	GSM 03.93 and GSM 04.93
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	HIGH-SPEED DATA TRANSMISSION IN MOBILE COMMUNICATION NETWORKS
<b>Country of registration:</b>	JP
<b>Application no.:</b>	8-526637
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	BT
<b>Project:</b>	GSM
<b>Title:</b>	Telecommunications System
<b>Country of registration:</b>	JP
<b>Application no.:</b>	96-500499
<b>Countries applicable:</b>	JP
<b>ETSI Deliverable:</b>	GSM 03.93 and GSM 04.93
<b>Company name:</b>	BT
<b>Project:</b>	GSM
<b>Title:</b>	Telecommunications System
<b>Country of registration:</b>	KR
<b>Application no.:</b>	706250/96
<b>Countries applicable:</b>	KR
<b>ETSI Deliverable:</b>	GSM 03.93 and GSM 04.93
<b>Company name:</b>	BT
<b>Project:</b>	GSM
<b>Title:</b>	Telecommunications System
<b>Country of registration:</b>	NZ
<b>Patent no.:</b>	285839
<b>Countries applicable:</b>	NZ, PCT
<b>ETSI Deliverable:</b>	GSM 03.93 and GSM 04.93
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	HIGH-SPEED DATA TRANSMISSION IN MOBILE COMMUNICATION NETWORKS
<b>Country of registration:</b>	KR
<b>Application no.:</b>	706020/1997
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	FACSIMILE TRANSMISSION IN A MOBILE COMMUNICATION SYSTEM
<b>Country of registration:</b>	US
<b>Application no.:</b>	08/732467
<b>Patent no.:</b>	5805301
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** FACSIMILE TRANSMISSION IN A MOBILE COMMUNICATION SYSTEM  
**Country of registration:** HK  
**Application no.:** 97101623,7  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** TRANSCODER WITH PREVENTION OF TANDEM CODING OF SPEECH  
**Country of registration:** FI  
**Application no.:** 951807  
**Patent no.:** 101439  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** TRANSCODER WITH PREVENTION OF TANDEM CODING OF SPEECH  
**Country of registration:** AU  
**Application no.:** 53363/96  
**Patent no.:** 705619  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** TRANSCODER WITH PREVENTION OF TANDEM CODING OF SPEECH  
**Country of registration:** CA  
**Application no.:** 2217693  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** TRANSCODER WITH PREVENTION OF TANDEM CODING OF SPEECH  
**Country of registration:** CN  
**Application no.:** 96193866,8  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** HIGH-SPEED DATA TRANSMISSION IN MOBILE COMMUNICATION NETWORKS  
**Country of registration:** HK  
**Application no.:** 98102849,2  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** HIGH-SPEED DATA TRANSMISSION IN MOBILE COMMUNICATION NETWORKS  
**Country of registration:** EPO  
**Application no.:** 96904117,7  
**Countries applicable:** AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** HIGH-SPEED DATA TRANSMISSION IN MOBILE COMMUNICATION NETWORKS  
**Country of registration:** CN  
**Application no.:** 96192381,4  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** FACSIMILE TRANSMISSION IN A MOBILE COMMUNICATION SYSTEM  
**Country of registration:** NO  
**Application no.:** 964687  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** FACSIMILE TRANSMISSION IN A MOBILE COMMUNICATION SYSTEM  
**Country of registration:** EPO  
**Application no.:** 96904119  
**Countries applicable:** AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** HIGH-SPEED DATA TRANSMISSION IN MOBILE COMMUNICATION NETWORKS  
**Country of registration:** US  
**Application no.:** 08/913558  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** FACSIMILE TRANSMISSION IN A MOBILE COMMUNICATION SYSTEM  
**Country of registration:** FI  
**Application no.:** 951020  
**Patent no.:** 100213  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** FACSIMILE TRANSMISSION IN A MOBILE COMMUNICATION SYSTEM  
**Country of registration:** SG  
**Application no.:** 9611824-5  
**Patent no.:** 34817  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** FACSIMILE TRANSMISSION IN A MOBILE COMMUNICATION SYSTEM  
**Country of registration:** AU  
**Application no.:** 4833496  
**Patent no.:** 702866  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** FACSIMILE TRANSMISSION IN A MOBILE COMMUNICATION SYSTEM  
**Country of registration:** CA  
**Application no.:** 2188788  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** FACSIMILE TRANSMISSION IN A MOBILE COMMUNICATION SYSTEM  
**Country of registration:** CN  
**Application no.:** 96190165,9  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** FACSIMILE TRANSMISSION IN A MOBILE COMMUNICATION SYSTEM  
**Country of registration:** KR  
**Application no.:** 706268  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** HIGH-SPEED DATA TRANSMISSION IN MOBILE COMMUNICATION NETWORKS  
**Country of registration:** NO  
**Application no.:** 974099  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** BT  
**Project:** GSM  
**Title:** Telecommunications System  
**Country of registration:** IN  
**Application no.:** 708/MAS/95  
**Countries applicable:** IN  
**ETSI Deliverable:** GSM 03.93 and GSM 04.93

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**Company name:** BT  
**Project:** GSM  
**Title:** Telecommunications System  
**Country of registration:** AU  
**Patent no.:** 685280  
**Countries applicable:** AU  
**ETSI Deliverable:** GSM 03.93 and GSM 04.93

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** HIGH-SPEED DATA TRANSMISSION IN MOBILE COMMUNICATION NETWORKS  
**Country of registration:** CA  
**Application no.:** 2211095  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** HIGH-SPEED DATA TRANSMISSION IN MOBILE COMMUNICATION NETWORKS  
**Country of registration:** SG  
**Application no.:** 9705652-7  
**Patent no.:** 50110  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** FACSIMILE TRANSMISSION IN A MOBILE COMMUNICATION SYSTEM  
**Country of registration:** JP  
**Application no.:** 8526639  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Robert Bosch GmbH  
**Project:** GSM  
**Title:** Data transmission method especially in GSM communication system  
**Country of registration:** DE  
**Application no.:** 96934415.9  
**Countries applicable:** BE, CH, DE, ES, FI, FR, GB, IT, NL, SE  
**ETSI Deliverable:** GSM 04.53  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** BT  
**Project:** GSM  
**Title:** Telecommunications System  
**Country of registration:** FI  
**Application no.:** 964659  
**Countries applicable:** FI  
**ETSI Deliverable:** GSM 03.93 and GSM 04.93

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**Company name:** BT  
**Project:** GSM  
**Title:** Telecommunications System  
**Country of registration:** NZ  
**Patent no.:** 285840  
**Countries applicable:** NZ, PCT  
**ETSI Deliverable:** GSM 03.93 and GSM 04.93

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**Company name:** Nokia  
**Project:** GSM  
**Title:** Telecommunications system  
**Country of registration:** FI  
**Application no.:** 950419  
**Patent no.:** FI 99066  
**ETSI Deliverable:** GSM 05.02

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD FOR USING APPLICATIONS IN A MOBILE STATION, A MOBILE STATION AND A SYSTEM FOR EFFECTING PAYMENTS  
**Country of registration:** US  
**Application no.:** 08/597845  
**Patent no.:** 5887266  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** HIGH-SPEED DATA TRANSMISSION IN MOBILE COMMUNICATION NETWORKS  
**Country of registration:** FI  
**Application no.:** 951019  
**Patent no.:** 100212  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia  
**Project:** GSM  
**Title:** System for transmitting packet data in digital cellular time division multiple access (TDMA) air interface  
**Country of registration:** CN  
**Application no.:** 95105074.5  
**ETSI Deliverable:** GSM 03.64

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**Company name:** Nokia  
**Project:** GSM  
**Title:** System for transmitting packet data in digital cellular time division multiple access (TDMA) air interface  
**Country of registration:** EPO  
**Application no.:** 95303040.0  
**Countries applicable:** NL, IT, AT, FR, SE, CH, DE, GB  
**ETSI Deliverable:** GSM 03.64

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**Company name:** Nokia  
**Project:** GSM  
**Title:** System for transmitting packet data in digital cellular time division multiple access (TDMA) air interface  
**Country of registration:** FI  
**Application no.:** 942038  
**Patent no.:** FI 98426  
**ETSI Deliverable:** GSM 03.64

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**Company name:** Nokia  
**Project:** GSM  
**Title:** System for transmitting packet data in digital cellular time division multiple access (TDMA) air interface  
**Country of registration:** US  
**Application no.:** 431559  
**Patent no.:** US 5640395  
**ETSI Deliverable:** GSM 03.64

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**Company name:** Nokia  
**Project:** GSM  
**Title:** Dynamic codebook for efficient speech coding based on algebraic codes  
**Country of registration:** CA  
**Application no.:** 2010830  
**Patent no.:** CA 2010830  
**ETSI Deliverable:** GSM 6.60

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**Company name:** Nokia  
**Project:** GSM  
**Title:** Telecommunications system  
**Country of registration:** DE  
**Application no.:** 19546577.6  
**ETSI Deliverable:** GSM 05.02

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD FOR USING APPLICATIONS IN A MOBILE STATION, A MOBILE STATION AND A SYSTEM FOR EFFECTING PAYMENTS  
**Country of registration:** CN  
**Application no.:** 96191948,5  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia  
**Project:** GSM  
**Title:** Telecommunications system  
**Country of registration:** FR  
**Application no.:** 9514959  
**Patent no.:** FR 2730117  
**ETSI Deliverable:** GSM 05.02

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**Company name:** Nokia  
**Project:** GSM  
**Title:** Telecommunications system  
**Country of registration:** GB  
**Application no.:** 9525966.9  
**ETSI Deliverable:** GSM 05.02

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**Company name:** Nokia  
**Project:** GSM  
**Title:** Telecommunications system  
**Country of registration:** SE  
**Application no.:** 9504541-5  
**ETSI Deliverable:** GSM 05.02

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**Company name:** Nokia  
**Project:** GSM  
**Title:** Telecommunications system  
**Country of registration:** PCT  
**Application no.:** PCT/FI95/00687  
**Patent no.:** WO 9624200  
**ETSI Deliverable:** GSM 05.02

<b>Company name:</b>	Nokia
<b>Project:</b>	GSM
<b>Title:</b>	Control Of Handover And Transmission Power Control Of Mobile Station In A Mobile Telecommunications system
<b>Country of registration:</b>	FI
<b>Application no.:</b>	FI 942191
<b>Patent no.:</b>	FI 96468
<b>ETSI Deliverable:</b>	GSM 05.02, GSM 05.08
<b>Company name:</b>	Nokia
<b>Project:</b>	GSM
<b>Title:</b>	Control Of Handover And Transmission Power Control Of Mobile Station In A Mobile Telecommunications system
<b>Country of registration:</b>	PCT
<b>Application no.:</b>	PCT/FI95/00249
<b>Patent no.:</b>	WO 9531879
<b>ETSI Deliverable:</b>	GSM 05.02, GSM 05.08
<b>Company name:</b>	Nokia
<b>Project:</b>	GSM
<b>Title:</b>	Telecommunications system
<b>Country of registration:</b>	AU
<b>Application no.:</b>	42618/96
<b>ETSI Deliverable:</b>	GSM 05.02
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	METHOD TO REALIZE DISCONTINUOUS TRANSMISSION IN A MOBILE PHONE SYSTEM
<b>Country of registration:</b>	GB
<b>Application no.:</b>	9525966,9
<b>Patent no.:</b>	2297669
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	PACKET RADIO SYSTEM AND METHODS FOR A PROTOCOL-INDEPENDENT ROUTING OF A DATA PACKET IN PACKET RADIO NETWORKS
<b>Country of registration:</b>	US
<b>Application no.:</b>	08/875464
<b>Patent no.:</b>	5970059
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	METHOD TO REALIZE DISCONTINUOUS TRANSMISSION IN A MOBILE PHONE SYSTEM
<b>Country of registration:</b>	FI
<b>Application no.:</b>	950419
<b>Patent no.:</b>	99066
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD TO REALIZE DISCONTINUOUS TRANSMISSION IN A MOBILE PHONE SYSTEM  
**Country of registration:** AU  
**Application no.:** 42618/96  
**Patent no.:** 694928  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD TO REALIZE DISCONTINUOUS TRANSMISSION IN A MOBILE PHONE SYSTEM  
**Country of registration:** CH  
**Application no.:** 03511/95  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD TO REALIZE DISCONTINUOUS TRANSMISSION IN A MOBILE PHONE SYSTEM  
**Country of registration:** CN  
**Application no.:** 95197523,4  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD TO REALIZE DISCONTINUOUS TRANSMISSION IN A MOBILE PHONE SYSTEM  
**Country of registration:** DE  
**Application no.:** 19546577,6  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD FOR USING APPLICATIONS IN A MOBILE STATION, A MOBILE STATION AND A SYSTEM FOR EFFECTING PAYMENTS  
**Country of registration:** JP  
**Application no.:** 8-524688  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD TO REALIZE DISCONTINUOUS TRANSMISSION IN A MOBILE PHONE SYSTEM  
**Country of registration:** FR  
**Application no.:** 9514959  
**Patent no.:** 9514959  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	METHOD FOR USING APPLICATIONS IN A MOBILE STATION, A MOBILE STATION AND A SYSTEM FOR EFFECTING PAYMENTS
<b>Country of registration:</b>	EPO
<b>Application no.:</b>	96901820,9
<b>Countries applicable:</b>	AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	METHOD TO REALIZE DISCONTINUOUS TRANSMISSION IN A MOBILE PHONE SYSTEM
<b>Country of registration:</b>	JP
<b>Application no.:</b>	8-523281
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	METHOD TO REALIZE DISCONTINUOUS TRANSMISSION IN A MOBILE PHONE SYSTEM
<b>Country of registration:</b>	NL
<b>Application no.:</b>	1001927
<b>Patent no.:</b>	1001927
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	METHOD TO REALIZE DISCONTINUOUS TRANSMISSION IN A MOBILE PHONE SYSTEM
<b>Country of registration:</b>	SE
<b>Application no.:</b>	9504541-5
<b>Patent no.:</b>	506999
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	METHOD TO REALIZE DISCONTINUOUS TRANSMISSION IN A MOBILE PHONE SYSTEM
<b>Country of registration:</b>	US
<b>Application no.:</b>	08/875652
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	METHOD FOR USING APPLICATIONS IN A MOBILE STATION, A MOBILE STATION AND A SYSTEM FOR EFFECTING PAYMENTS
<b>Country of registration:</b>	FI
<b>Application no.:</b>	950685
<b>Patent no.:</b>	99071
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	METHOD FOR USING APPLICATIONS IN A MOBILE STATION, A MOBILE STATION AND A SYSTEM FOR EFFECTING PAYMENTS
<b>Country of registration:</b>	AU
<b>Application no.:</b>	46247/96
<b>Patent no.:</b>	696876
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia
<b>Project:</b>	GSM
<b>Title:</b>	Control Of Handover And Transmission Power Control Of Mobile Station In A Mobile Telecommunications system
<b>Country of registration:</b>	EPO
<b>Application no.:</b>	EP 95918002.7
<b>Patent no.:</b>	EP 709015
<b>Countries applicable:</b>	AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE
<b>ETSI Deliverable:</b>	GSM 05.02, GSM 05.08
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	METHOD TO REALIZE DISCONTINUOUS TRANSMISSION IN A MOBILE PHONE SYSTEM
<b>Country of registration:</b>	ES
<b>Application no.:</b>	9502309
<b>Patent no.:</b>	9502309
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia
<b>Project:</b>	GSM
<b>Title:</b>	Algebraic codebook with signal-selected pulse amplitudes for fast coding of speech
<b>Country of registration:</b>	ZA
<b>Application no.:</b>	96/0852
<b>Patent no.:</b>	ZA 96/0852
<b>ETSI Deliverable:</b>	GSM 6.60
<b>Company name:</b>	Nokia
<b>Project:</b>	GSM
<b>Title:</b>	Control Of Handover And Transmission Power Control Of Mobile Station In A Mobile Telecommunications system
<b>Country of registration:</b>	NO
<b>Application no.:</b>	NO 960118
<b>Patent no.:</b>	NO 9600118
<b>ETSI Deliverable:</b>	GSM 05.02, GSM 05.08
<b>Company name:</b>	Nokia
<b>Project:</b>	GSM
<b>Title:</b>	Vector adaptive predictive coder for speech and audio
<b>Country of registration:</b>	JP
<b>Application no.:</b>	84973/1988
<b>ETSI Deliverable:</b>	GSM 6.60, GSM 06.20
<b>Company name:</b>	Nokia
<b>Project:</b>	GSM
<b>Title:</b>	Vector adaptive predictive coder for speech and audio
<b>Country of registration:</b>	US
<b>Application no.:</b>	35615
<b>Patent no.:</b>	US 4969192
<b>ETSI Deliverable:</b>	GSM 6.60, GSM 06.20

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**Company name:** Nokia  
**Project:** GSM  
**Title:** Algebraic codebook with signal-selected pulse amplitudes for fast coding of speech  
**Country of registration:** AU  
**Application no.:** AU 9644796  
**ETSI Deliverable:** GSM 6.60

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**Company name:** Nokia  
**Project:** GSM  
**Title:** Algebraic codebook with signal-selected pulse amplitudes for fast coding of speech  
**Country of registration:** DE  
**Application no.:** 19604273.9  
**ETSI Deliverable:** GSM 6.60

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**Company name:** Nokia  
**Project:** GSM  
**Title:** Algebraic codebook with signal-selected pulse amplitudes for fast coding of speech  
**Country of registration:** FR  
**Application no.:** 9601426  
**Patent no.:** FR 2730336  
**ETSI Deliverable:** GSM 6.60

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**Company name:** Nokia  
**Project:** GSM  
**Title:** Vector adaptive predictive coder for speech and audio  
**Country of registration:** CA  
**Patent no.:** CA 1336454  
**ETSI Deliverable:** GSM 6.60, GSM 06.20

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**Company name:** Nokia  
**Project:** GSM  
**Title:** Algebraic codebook with signal-selected pulse amplitudes for fast coding of speech  
**Country of registration:** PCT  
**Application no.:** PCT/CA96/00069  
**Patent no.:** WO 9624925  
**ETSI Deliverable:** GSM 6.60

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**Company name:** Nokia  
**Project:** GSM  
**Title:** Dynamic codebook for efficient speech coding based on algebraic codes  
**Country of registration:** US  
**Application no.:** 927528  
**Patent no.:** US 5444816  
**ETSI Deliverable:** GSM 6.60

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**Company name:** Nokia  
**Project:** GSM  
**Title:** Depth-first algebraic-codebook search for fast coding of speech  
**Country of registration:** DE  
**Application no.:** 19609170.5  
**ETSI Deliverable:** GSM 6.60

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**Company name:** Nokia  
**Project:** GSM  
**Title:** Depth-first algebraic-codebook search for fast coding of speech  
**Country of registration:** FR  
**Application no.:** 9602957  
**ETSI Deliverable:** GSM 6.60

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**Company name:** Nokia  
**Project:** GSM  
**Title:** Depth-first algebraic-codebook search for fast coding of speech  
**Country of registration:** GB  
**Application no.:** 965123.0  
**Patent no.:** GB 2299001  
**ETSI Deliverable:** GSM 6.60

<b>Company name:</b>	Nokia
<b>Project:</b>	GSM
<b>Title:</b>	Depth-first algebraic-codebook search for fast coding of speech
<b>Country of registration:</b>	SE
<b>Application no.:</b>	9600918-8
<b>ETSI Deliverable:</b>	GSM 6.60
<b>Company name:</b>	Nokia
<b>Project:</b>	GSM
<b>Title:</b>	Depth-first algebraic-codebook search for fast coding of speech
<b>Country of registration:</b>	PCT
<b>Application no.:</b>	PCT/CA96/00135
<b>Patent no.:</b>	WO 9628810
<b>ETSI Deliverable:</b>	GSM 6.60
<b>Company name:</b>	Nokia
<b>Project:</b>	GSM
<b>Title:</b>	Depth-first algebraic-codebook search for fast coding of speech
<b>Country of registration:</b>	ZA
<b>Application no.:</b>	96/1913
<b>Patent no.:</b>	ZA 96/1913
<b>ETSI Deliverable:</b>	GSM 6.60
<b>Company name:</b>	Nokia
<b>Project:</b>	GSM
<b>Title:</b>	Predictive split-matrix quantization of spectral parameters for efficient coding of speech
<b>Country of registration:</b>	PCT
<b>Application no.:</b>	PCT/CA96/00202
<b>Patent no.:</b>	WO 9631873
<b>ETSI Deliverable:</b>	GSM 6.60
<b>Company name:</b>	Nokia
<b>Project:</b>	GSM
<b>Title:</b>	Algebraic codebook with signal-selected pulse amplitudes for fast coding of speech
<b>Country of registration:</b>	GB
<b>Application no.:</b>	9602391.6
<b>Patent no.:</b>	GB 2297671
<b>ETSI Deliverable:</b>	GSM 6.60
<b>Company name:</b>	Nokia
<b>Project:</b>	GSM
<b>Title:</b>	High-Speed Data Transmission In Mobile Communication Networks
<b>Country of registration:</b>	FI
<b>Application no.:</b>	FI 945817
<b>Patent no.:</b>	FI 97187
<b>ETSI Deliverable:</b>	GSM 04.21
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	HIGH-SPEED DATA TRANSMISSION IN MOBILE COMMUNICATION NETWORKS
<b>Country of registration:</b>	AU
<b>Application no.:</b>	48332/96
<b>Patent no.:</b>	703855
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia
<b>Project:</b>	GSM
<b>Title:</b>	Control Of Handover And Transmission Power Control Of Mobile Station In A Mobile Telecommunications system
<b>Country of registration:</b>	JP
<b>Application no.:</b>	JP 7-529392
<b>Patent no.:</b>	JP 9504153
<b>ETSI Deliverable:</b>	GSM 05.02, GSM 05.08

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**Company name:** Nokia  
**Project:** GSM  
**Title:** Method And Apparatus For Speech Transmission In A Mobile Communications System  
**Country of registration:** FI  
**Application no.:** FI 943302  
**Patent no.:** FI 96650  
**ETSI Deliverable:** GSM 05.03

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**Company name:** Nokia  
**Project:** GSM  
**Title:** Method And Apparatus For Speech Transmission In A Mobile Communications System  
**Country of registration:** PCT  
**Application no.:** PCT/FI95/00390  
**Patent no.:** WO 9602091  
**ETSI Deliverable:** GSM 05.03

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**Company name:** Nokia  
**Project:** GSM  
**Title:** Method And Apparatus For Speech Transmission In A Mobile Communications System  
**Country of registration:** AU  
**Application no.:** AU 28887/95  
**Patent no.:** AU 9528887  
**ETSI Deliverable:** GSM 05.03

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**Company name:** Nokia  
**Project:** GSM  
**Title:** Method And Apparatus For Speech Transmission In A Mobile Communications System  
**Country of registration:** NO  
**Application no.:** NO 960979  
**Patent no.:** NO 9600979  
**ETSI Deliverable:** GSM 05.03

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**Company name:** Nokia  
**Project:** GSM  
**Title:** Vector adaptive predictive coder for speech and audio  
**Country of registration:** EPO  
**Application no.:** 92108904.1  
**Countries applicable:** DE, FR, GB, IT  
**ETSI Deliverable:** GSM 6.60, GSM 06.20

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**Company name:** Nokia  
**Project:** GSM  
**Title:** Method And Apparatus For Speech Transmission In A Mobile Communications System  
**Country of registration:** JP  
**Application no.:** JP 8-504136  
**Patent no.:** JP 9506491  
**ETSI Deliverable:** GSM 05.03

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**Company name:** Nokia  
**Project:** GSM  
**Title:** Control Of Handover And Transmission Power Control Of Mobile Station In A Mobile Telecommunications system  
**Country of registration:** AU  
**Application no.:** AU 24104/95  
**Patent no.:** AU 682112  
**ETSI Deliverable:** GSM 05.02, GSM 05.08

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**Company name:** Nokia  
**Project:** GSM  
**Title:** High-Speed Data Transmission In Mobile Communication Networks  
**Country of registration:** PCT  
**Application no.:** PCT/FI95/00673  
**Patent no.:** WO 9618248  
**ETSI Deliverable:** GSM 04.21



<b>Company name:</b>	Nokia
<b>Project:</b>	GSM
<b>Title:</b>	High-Speed Data Transmission In Mobile Communication Networks
<b>Country of registration:</b>	AU
<b>Application no.:</b>	AU 41186/96
<b>Patent no.:</b>	AU 9641186
<b>ETSI Deliverable:</b>	GSM 04.21
<b>Company name:</b>	Nokia
<b>Project:</b>	GSM
<b>Title:</b>	High-Speed Data Transmission In Mobile Communication Networks
<b>Country of registration:</b>	NO
<b>Application no.:</b>	NO 972629
<b>Patent no.:</b>	NO 9702629
<b>ETSI Deliverable:</b>	GSM 04.21
<b>Company name:</b>	Nokia
<b>Project:</b>	GSM
<b>Title:</b>	High-Speed Data Transmission In Mobile Communication Networks
<b>Country of registration:</b>	EPO
<b>Application no.:</b>	EP 95939304.2
<b>Patent no.:</b>	EP 801853
<b>Countries applicable:</b>	AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE
<b>ETSI Deliverable:</b>	GSM 04.21
<b>Company name:</b>	Nokia
<b>Project:</b>	GSM
<b>Title:</b>	Speech synthesiser
<b>Country of registration:</b>	PCT
<b>Application no.:</b>	PCT/GB96/01428
<b>Patent no.:</b>	WO 9700516
<b>ETSI Deliverable:</b>	GSM 6.60
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	TRANSCODER WITH PREVENTION OF TANDEM CODING OF SPEECH
<b>Country of registration:</b>	EPO
<b>Application no.:</b>	96910043,7
<b>Countries applicable:</b>	AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia
<b>Project:</b>	GSM
<b>Title:</b>	Dynamic codebook for efficient speech coding based on algebraic codes
<b>Country of registration:</b>	EPO
<b>Application no.:</b>	90915956.8
<b>Patent no.:</b>	EP 516621
<b>ETSI Deliverable:</b>	GSM 6.60
<b>Company name:</b>	Nokia
<b>Project:</b>	GSM
<b>Title:</b>	Method And Apparatus For Speech Transmission In A Mobile Communications System
<b>Country of registration:</b>	EPO
<b>Application no.:</b>	EP 95924336.1
<b>Patent no.:</b>	EP 722634
<b>Countries applicable:</b>	AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE
<b>ETSI Deliverable:</b>	GSM 05.03

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** ALGEBRAICH CODEBOOK WITH SIGNAL-SELECTED PULSE AMPLITUDE/POSITION COMBINATIONS FOR FAST CODING OF SPEECH  
**Country of registration:** AU  
**Application no.:** 44796/96  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** MOBILE COMMUNICATION SYSTEM AND METHOD FOR ESTABLISHING A DATA CALL  
**Country of registration:** EPO  
**Application no.:** 96931826  
**Countries applicable:** AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** MOBILE COMMUNICATION SYSTEM AND METHOD FOR ESTABLISHING A DATA CALL  
**Country of registration:** HK  
**Application no.:** 99100294,5  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** MOBILE COMMUNICATION SYSTEM AND METHOD FOR ESTABLISHING A DATA CALL  
**Country of registration:** JP  
**Application no.:** 09-513159  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** ALGEBRAICH CODEBOOK WITH SIGNAL-SELECTED PULSE AMPLITUDE/POSITION COMBINATIONS FOR FAST CODING OF SPEECH  
**Country of registration:** ES  
**Application no.:** 9650025  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** ALGEBRAICH CODEBOOK WITH SIGNAL-SELECTED PULSE AMPLITUDE/POSITION COMBINATIONS FOR FAST CODING OF SPEECH  
**Country of registration:** EPO  
**Application no.:** 96900816,8  
**Countries applicable:** AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** ALGEBRAICH CODEBOOK WITH SIGNAL-SELECTED PULSE AMPLITUDE/POSITION COMBINATIONS FOR FAST CODING OF SPEECH  
**Country of registration:** DE  
**Application no.:** 19604273,9  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** ALGEBRAICH CODEBOOK WITH SIGNAL-SELECTED PULSE AMPLITUDE/POSITION COMBINATIONS FOR FAST CODING OF SPEECH  
**Country of registration:** CN  
**Application no.:** 96193095  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** ALGEBRAICH CODEBOOK WITH SIGNAL-SELECTED PULSE AMPLITUDE/POSITION COMBINATIONS FOR FAST CODING OF SPEECH  
**Country of registration:** CA  
**Application no.:** 2210765  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** BT  
**Project:** GSM  
**Title:** Transmission of Digital Signals  
**Country of registration:** SG  
**Application no.:** 9801617-3  
**Countries applicable:** SG  
**ETSI Deliverable:** GSM 02.53

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** PACKET RADIO SYSTEM AND METHODS FOR A PROTOCOL-INDEPENDENT ROUTING OF A DATA PACKET IN PACKET RADIO NETWORKS  
**Country of registration:** SG  
**Application no.:** 9705557  
**Patent no.:** 49522  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** MOBILE COMMUNICATION SYSTEM AND METHOD FOR ESTABLISHING A DATA CALL  
**Country of registration:** AU  
**Application no.:** 70865/96  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

<b>Company name:</b>	Nokia
<b>Project:</b>	GSM
<b>Title:</b>	Data Transmission System With Sliding-Window Data Flow Control
<b>Country of registration:</b>	AU
<b>Application no.:</b>	AU 56506/96
<b>Patent no.:</b>	AU 9656506
<b>ETSI Deliverable:</b>	GSM 04.22
<hr/>	
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	MOBILE COMMUNICATION SYSTEM AND METHOD FOR ESTABLISHING A DATA CALL
<b>Country of registration:</b>	NO
<b>Application no.:</b>	981333
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
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<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	MOBILE COMMUNICATION SYSTEM AND METHOD FOR ESTABLISHING A DATA CALL
<b>Country of registration:</b>	NZ
<b>Application no.:</b>	318789
<b>Patent no.:</b>	318789
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<hr/>	
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	MOBILE COMMUNICATION SYSTEM AND METHOD FOR ESTABLISHING A DATA CALL
<b>Country of registration:</b>	US
<b>Application no.:</b>	09/043702
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<hr/>	
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	METHOD DEVICE AND COMMUNICATION NETWORK FOR AVOIDING COLLISIONS IN RADIO COMMUNICATION
<b>Country of registration:</b>	FI
<b>Application no.:</b>	955030
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<hr/>	
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	METHOD DEVICE AND COMMUNICATION NETWORK FOR AVOIDING COLLISIONS IN RADIO COMMUNICATION
<b>Country of registration:</b>	AT
<b>Application no.:</b>	A1804/96
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD DEVICE AND COMMUNICATION NETWORK FOR AVOIDING COLLISIONS IN RADIO COMMUNICATION  
**Country of registration:** AU  
**Application no.:** 69906/96  
**Patent no.:** 702769  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD DEVICE AND COMMUNICATION NETWORK FOR AVOIDING COLLISIONS IN RADIO COMMUNICATION  
**Country of registration:** CN  
**Application no.:** 96198961  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** ALGEBRAICH CODEBOOK WITH SIGNAL-SELECTED PULSE AMPLITUDE/POSITION COMBINATIONS FOR FAST CODING OF SPEECH  
**Country of registration:** BR  
**Application no.:** 9607026,9  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** DATA TRANSMISSION SYSTEM WITH SLIDING-WINDOW DATA FLOW CONTROL  
**Country of registration:** EPO  
**Application no.:** 96913557  
**Countries applicable:** AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** DEPTH-FIRST ALGEBRAICH CODEBOOK SEARCH FOR FAST CODING OF SPEECH  
**Country of registration:** US  
**Application no.:** 509525  
**Patent no.:** 5701392  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** ALGEBRAICH CODEBOOK WITH SIGNAL-SELECTED PULSE AMPLITUDE/POSITION COMBINATIONS FOR FAST CODING OF SPEECH  
**Country of registration:** ZA  
**Application no.:** 96/0852  
**Patent no.:** 96/0852  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** ALGEBRAICH CODEBOOK WITH SIGNAL-SELECTED PULSE AMPLITUDE/POSITION COMBINATIONS FOR FAST CODING OF SPEECH  
**Country of registration:** SE  
**Application no.:** 9600437-9  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** ALGEBRAICH CODEBOOK WITH SIGNAL-SELECTED PULSE AMPLITUDE/POSITION COMBINATIONS FOR FAST CODING OF SPEECH  
**Country of registration:** RU  
**Application no.:** 97114804  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** ALGEBRAICH CODEBOOK WITH SIGNAL-SELECTED PULSE AMPLITUDE/POSITION COMBINATIONS FOR FAST CODING OF SPEECH  
**Country of registration:** NO  
**Application no.:** 973472  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** ALGEBRAICH CODEBOOK WITH SIGNAL-SELECTED PULSE AMPLITUDE/POSITION COMBINATIONS FOR FAST CODING OF SPEECH  
**Country of registration:** MY  
**Application no.:** PI9600300  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** ALGEBRAICH CODEBOOK WITH SIGNAL-SELECTED PULSE AMPLITUDE/POSITION COMBINATIONS FOR FAST CODING OF SPEECH  
**Country of registration:** MX  
**Application no.:** 975997  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** DATA TRANSMISSION SYSTEM WITH SLIDING-WINDOW DATA FLOW CONTROL  
**Country of registration:** AU  
**Application no.:** 5650696  
**Patent no.:** 708324  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** MOBILE COMMUNICATION SYSTEM AND METHOD FOR ESTABLISHING A DATA CALL  
**Country of registration:** CN  
**Application no.:** 96197188,6  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** DATA TRANSMISSION SYSTEM WITH SLIDING-WINDOW DATA FLOW CONTROL  
**Country of registration:** CN  
**Application no.:** 9619046,.5  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** MOBILE COMMUNICATION SYSTEM AND METHOD FOR ESTABLISHING A DATA CALL  
**Country of registration:** CA  
**Application no.:** 2232792  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** ALGEBRAICH CODEBOOK WITH SIGNAL-SELECTED PULSE AMPLITUDE/POSITION COMBINATIONS FOR FAST CODING OF SPEECH  
**Country of registration:** KR  
**Application no.:** 705372  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** ALGEBRAICH CODEBOOK WITH SIGNAL-SELECTED PULSE AMPLITUDE/POSITION COMBINATIONS FOR FAST CODING OF SPEECH  
**Country of registration:** JP  
**Application no.:** 523852/96  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** ALGEBRAICH CODEBOOK WITH SIGNAL-SELECTED PULSE AMPLITUDE/POSITION COMBINATIONS FOR FAST CODING OF SPEECH  
**Country of registration:** IT  
**Application no.:** UD96A000012  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** ALGEBRAICH CODEBOOK WITH SIGNAL-SELECTED PULSE AMPLITUDE/POSITION COMBINATIONS FOR FAST CODING OF SPEECH  
**Country of registration:** IN  
**Application no.:** 198CAL96  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** ALGEBRAICH CODEBOOK WITH SIGNAL-SELECTED PULSE AMPLITUDE/POSITION COMBINATIONS FOR FAST CODING OF SPEECH  
**Country of registration:** HK  
**Application no.:** 98101406,9  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** ALGEBRAICH CODEBOOK WITH SIGNAL-SELECTED PULSE AMPLITUDE/POSITION COMBINATIONS FOR FAST CODING OF SPEECH  
**Country of registration:** FR  
**Application no.:** 9601426  
**Patent no.:** 2730336  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** AT&T  
**Project:** GSM  
**Title:** Digital Speech Coder  
**Country of registration:** CA  
**Patent no.:** 1 181 854  
**Notes:** AT&T have stated that all of the identified patents have corresponding foreign pending applications but they have elected to provide details of granted patents only -as, and when, patents are granted pursuant to the pending applications, ETSI will be informed. AT&T have stated to ETSI that Licensing enquires should be sent to: AT&T, 10 Independence Blvd, Warren, NJ 07059-6799, USA, marked for the attention of: Herb Winfield (Tel: +1 908 580-5916, Fax: +1 908 580-4082). However, indications are that Lucent Technologies will take responsibility for the licensing of AT&T's patents. No other contact has been provided.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** MOBILE COMMUNICATION SYSTEM AND METHOD FOR ESTABLISHING A DATA CALL  
**Country of registration:** FI  
**Application no.:** 954545  
**Patent no.:** 101337  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.



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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD DEVICE AND COMMUNICATION NETWORK FOR AVOIDING COLLISIONS IN RADIO COMMUNICATION  
**Country of registration:** GB  
**Application no.:** 9622016,5  
**Patent no.:** 2306858  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** DATA TRANSMISSION SYSTEM WITH SLIDING-WINDOW DATA FLOW CONTROL  
**Country of registration:** CA  
**Application no.:** 2193379  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** A METHOD OF SETTING THE PERSISTENCE OF A MOBILE STATION IN A CELLULAR MOBILE RADIO NETWORK  
**Country of registration:** RU  
**Application no.:** 99112946  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD DEVICE AND COMMUNICATION NETWORK FOR AVOIDING COLLISIONS IN RADIO COMMUNICATION  
**Country of registration:** DE  
**Application no.:** 19641084,3  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** IMPROVING SECURITY OF PACKET-MODE TRANSMISSION IN A MOBILE COMMUNICATION SYSTEM  
**Country of registration:** CN  
**Application no.:** 97190139,2  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** IMPROVING SECURITY OF PACKET-MODE TRANSMISSION IN A MOBILE COMMUNICATION SYSTEM  
**Country of registration:** EPO  
**Application no.:** 97906195,9  
**Countries applicable:** AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** IMPROVING SECURITY OF PACKET-MODE TRANSMISSION IN A MOBILE COMMUNICATION SYSTEM  
**Country of registration:** HK  
**Application no.:** 98110176,8  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** IMPROVING SECURITY OF PACKET-MODE TRANSMISSION IN A MOBILE COMMUNICATION SYSTEM  
**Country of registration:** IN  
**Application no.:** 379/MAS/97  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** TIME DIVISION MULTIPLE ACCESS RADIO SYSTEMS  
**Country of registration:** EPO  
**Application no.:** 98924337,3  
**Countries applicable:** AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** TIME DIVISION MULTIPLE ACCESS RADIO SYSTEMS  
**Country of registration:** CN  
**Application no.:** 98806506,1  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** TIME DIVISION MULTIPLE ACCESS RADIO SYSTEMS  
**Country of registration:** AU  
**Application no.:** 76563/98  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** IMPROVING SECURITY OF PACKET-MODE TRANSMISSION IN A MOBILE COMMUNICATION SYSTEM  
**Country of registration:** AU  
**Application no.:** 20967/97  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** A METHOD OF SETTING THE PERSISTENCE OF A MOBILE STATION IN A CELLULAR MOBILE RADIO NETWORK  
**Country of registration:** US  
**Application no.:** 08/974249  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** IMPROVING SECURITY OF PACKET-MODE TRANSMISSION IN A MOBILE COMMUNICATION SYSTEM  
**Country of registration:** FI  
**Application no.:** 960996  
**Patent no.:** 102936  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** A METHOD OF SETTING THE PERSISTENCE OF A MOBILE STATION IN A CELLULAR MOBILE RADIO NETWORK  
**Country of registration:** JP  
**Application no.:** 10-523228  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** A METHOD OF SETTING THE PERSISTENCE OF A MOBILE STATION IN A CELLULAR MOBILE RADIO NETWORK  
**Country of registration:** EPO  
**Application no.:** 97952791,8  
**Countries applicable:** AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** A METHOD OF SETTING THE PERSISTENCE OF A MOBILE STATION IN A CELLULAR MOBILE RADIO NETWORK  
**Country of registration:** CN  
**Application no.:** 97199777,2  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** A METHOD OF SETTING THE PERSISTENCE OF A MOBILE STATION IN A CELLULAR MOBILE RADIO NETWORK  
**Country of registration:** BR  
**Application no.:** 9713095-6  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** A METHOD OF SETTING THE PERSISTENCE OF A MOBILE STATION IN A CELLULAR MOBILE RADIO NETWORK  
**Country of registration:** AU  
**Application no.:** 65644/98  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** A METHOD OF SETTING THE PERSISTENCE OF A MOBILE STATION IN A CELLULAR MOBILE RADIO NETWORK  
**Country of registration:** DE  
**Application no.:** 19648077,9  
**Patent no.:** 19648077  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** IMPROVING SECURITY OF PACKET-MODE TRANSMISSION IN A MOBILE COMMUNICATION SYSTEM  
**Country of registration:** US  
**Application no.:** 08/952047  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** IMPROVING SECURITY OF PACKET-MODE TRANSMISSION IN A MOBILE COMMUNICATION SYSTEM  
**Country of registration:** TH  
**Application no.:** 35812  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** IMPROVING SECURITY OF PACKET-MODE TRANSMISSION IN A MOBILE COMMUNICATION SYSTEM  
**Country of registration:** PH  
**Application no.:** 55596  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** TIME DIVISION MULTIPLE ACCESS RADIO SYSTEMS  
**Country of registration:** FI  
**Application no.:** 972724  
**Patent no.:** 104135  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** DYNAMIC CODEBOOK FOR EFFICIENT SPEECH CODING BASED ON ALGEBRAIC CODES  
**Country of registration:** CA  
**Application no.:** 2010830  
**Patent no.:** 2010930  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Alcatel  
**Project:** GSM  
**Title:** Mobile Radio Network Adaptation Center  
**Country of registration:** n/a  
**Application no.:** EP 96 440 095  
**Patent no.:** EP 773 693  
**Countries applicable:** FR, DE, IT, ES, GB  
**ETSI Deliverable:** GSM 03.54, V5.0.0  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the IPRs listed in Annex 1 (the IPRs) and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the GSM Standard (the STANDARD). The SIGNATORY and/or AFFILIATES hereby declare that they are prepared to grant irrevocable licenses under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI Interim IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL. The construction validity and performance of this DECLARATION shall be governed by the laws of France.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD DEVICE AND COMMUNICATION NETWORK FOR AVOIDING COLLISIONS IN RADIO COMMUNICATION  
**Country of registration:** IT  
**Application no.:** MI96/A002156  
**Patent no.:** 1284978  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD DEVICE AND COMMUNICATION NETWORK FOR AVOIDING COLLISIONS IN RADIO COMMUNICATION  
**Country of registration:** JP  
**Application no.:** 9-516310  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD DEVICE AND COMMUNICATION NETWORK FOR AVOIDING COLLISIONS IN RADIO COMMUNICATION  
**Country of registration:** NL  
**Application no.:** 1004295  
**Patent no.:** 1004295  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD DEVICE AND COMMUNICATION NETWORK FOR AVOIDING COLLISIONS IN RADIO COMMUNICATION  
**Country of registration:** RU  
**Application no.:** PCT/FI96/00505  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** ALGEBRAIC CODEBOOK WITH SIGNAL-SELECTED PULSE AMPLITUDE/POSITION COMBINATIONS FOR FAST CODING OF SPEECH  
**Country of registration:** AR  
**Application no.:** 335305  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** ALGEBRAIC CODEBOOK WITH SIGNAL-SELECTED PULSE AMPLITUDE/POSITION COMBINATIONS FOR FAST CODING OF SPEECH  
**Country of registration:** US  
**Application no.:** 508801  
**Patent no.:** 5754976  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** DYNAMIC CODEBOOK FOR EFFICIENT SPEECH CODING BASED ON ALGEBRAIC CODES  
**Country of registration:** US  
**Application no.:** 438703  
**Patent no.:** 5699482  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** IMPROVING SECURITY OF PACKET-MODE TRANSMISSION IN A MOBILE COMMUNICATION SYSTEM  
**Country of registration:** CA  
**Application no.:** 2219256  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** DYNAMIC CODEBOOK FOR EFFICIENT SPEECH CODING BASED ON ALGEBRAIC CODES  
**Country of registration:** EPO  
**Application no.:** 90915956,8  
**Patent no.:** 516621  
**Countries applicable:** AU, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD DEVICE AND COMMUNICATION NETWORK FOR AVOIDING COLLISIONS IN RADIO COMMUNICATION  
**Country of registration:** FR  
**Application no.:** 9612754  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** VECTOR ADAPTIVE PREDICTIVE CODER FOR SPEECH AND AUDIO  
**Country of registration:** JP  
**Application no.:** 84973/1988  
**Patent no.:** 2887286  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** VECTOR ADAPTIVE PREDICTIVE CODER FOR SPEECH AND AUDIO  
**Country of registration:** EPO  
**Application no.:** 92108904,1  
**Patent no.:** 516621  
**Countries applicable:** DE, FR, GB, IT  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** VECTOR ADAPTIVE PREDICTIVE CODER FOR SPEECH AND AUDIO  
**Country of registration:** CA  
**Patent no.:** 1336454  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** VECTOR ADAPTIVE PREDICTIVE CODER FOR SPEECH AND AUDIO  
**Country of registration:** US  
**Application no.:** 35615  
**Patent no.:** 4969192  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** TIME DIVISION MULTIPLE ACCESS RADIO SYSTEMS  
**Country of registration:** US  
**Application no.:** 09/098832  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** TIME DIVISION MULTIPLE ACCESS RADIO SYSTEMS  
**Country of registration:** RU  
**Application no.:** PCT/FI98/00468  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** TIME DIVISION MULTIPLE ACCESS RADIO SYSTEMS  
**Country of registration:** JP  
**Application no.:** 11-503836  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD DEVICE AND COMMUNICATION NETWORK FOR AVOIDING COLLISIONS IN RADIO COMMUNICATION  
**Country of registration:** SE  
**Application no.:** 9603731-2  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD DEVICE AND COMMUNICATION NETWORK FOR AVOIDING COLLISIONS IN RADIO COMMUNICATION  
**Country of registration:** US  
**Application no.:** 08/724909  
**Patent no.:** 5966378  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** DYNAMIC CODEBOOK FOR EFFICIENT SPEECH CODING BASED ON ALGEBRAIC CODES  
**Country of registration:** US  
**Application no.:** 927528  
**Patent no.:** 5444816  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.



<b>Company name:</b>	BT
<b>Project:</b>	GSM
<b>Title:</b>	Transmission of Digital Signals
<b>Country of registration:</b>	IN
<b>Application no.:</b>	1287/MAS/96
<b>Countries applicable:</b>	IN
<b>ETSI Deliverable:</b>	GSM 02.53
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	DATA TRANSMISSION SYSTEM WITH SLIDING-WINDOW DATA FLOW CONTROL
<b>Country of registration:</b>	HK
<b>Application no.:</b>	98101125,9
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	BT
<b>Project:</b>	GSM
<b>Title:</b>	Cellular Radio Systems
<b>Country of registration:</b>	US
<b>Application no.:</b>	179961
<b>Countries applicable:</b>	US
<b>ETSI Deliverable:</b>	GSM 02.67, 02.68, 02.69, 03.67, 03.68, 03.69
<b>Company name:</b>	BT
<b>Project:</b>	GSM
<b>Title:</b>	Cellular Radio Systems
<b>Country of registration:</b>	AU
<b>Patent no.:</b>	678247
<b>Countries applicable:</b>	AU
<b>ETSI Deliverable:</b>	GSM 02.67, 02.68, 02.69, 03.67, 03.68, 03.69
<b>Company name:</b>	BT
<b>Project:</b>	GSM
<b>Title:</b>	Cellular Radio Systems
<b>Country of registration:</b>	NZ
<b>Patent no.:</b>	266204
<b>Countries applicable:</b>	NZ
<b>ETSI Deliverable:</b>	GSM 02.67, 02.68, 02.69, 03.67, 03.68, 03.69
<b>Company name:</b>	BT
<b>Project:</b>	GSM
<b>Title:</b>	Cellular Radio Systems
<b>Country of registration:</b>	PL
<b>Patent no.:</b>	174356
<b>Countries applicable:</b>	PL
<b>ETSI Deliverable:</b>	GSM 02.67, 02.68, 02.69, 03.67, 03.68, 03.69
<b>Company name:</b>	BT
<b>Project:</b>	GSM
<b>Title:</b>	Transmission of Digital Signals
<b>Country of registration:</b>	AU
<b>Application no.:</b>	65245/96
<b>Countries applicable:</b>	AU
<b>ETSI Deliverable:</b>	GSM 02.53
<b>Company name:</b>	BT
<b>Project:</b>	GSM
<b>Title:</b>	Transmission of Digital Signals
<b>Country of registration:</b>	BR
<b>Application no.:</b>	9609577-6
<b>Countries applicable:</b>	BR
<b>ETSI Deliverable:</b>	GSM 02.53

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**Company name:** BT  
**Project:** GSM  
**Title:** Transmission of Digital Signals  
**Country of registration:** CA  
**Application no.:** 2227273  
**Countries applicable:** CA  
**ETSI Deliverable:** GSM 02.53

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**Company name:** BT  
**Project:** GSM  
**Title:** Cellular Radio Systems  
**Country of registration:** NO  
**Application no.:** 954682  
**Countries applicable:** NO  
**ETSI Deliverable:** GSM 02.67, 02.68, 02.69, 03.67, 03.68, 03.69

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**Company name:** BT  
**Project:** GSM  
**Title:** Transmission of Digital Signals  
**Country of registration:** HK  
**Application no.:** tba  
**Countries applicable:** HK  
**ETSI Deliverable:** GSM 02.53

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**Company name:** BT  
**Project:** GSM  
**Title:** Cellular Radio Systems  
**Country of registration:** KR  
**Application no.:** 705246/95  
**Countries applicable:** KR  
**ETSI Deliverable:** GSM 02.67, 02.68, 02.69, 03.67, 03.68, 03.69

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**Company name:** BT  
**Project:** GSM  
**Title:** Transmission of Digital Signals  
**Country of registration:** JP  
**Application no.:** 97-506424  
**Countries applicable:** JP  
**ETSI Deliverable:** GSM 02.53

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**Company name:** BT  
**Project:** GSM  
**Title:** Transmission of Digital Signals  
**Country of registration:** KR  
**Application no.:** 700512/98  
**Countries applicable:** KR  
**ETSI Deliverable:** GSM 02.53

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**Company name:** BT  
**Project:** GSM  
**Title:** Transmission of Digital Signals  
**Country of registration:** MX  
**Application no.:** 980652  
**Countries applicable:** MX  
**ETSI Deliverable:** GSM 02.53

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**Company name:** BT  
**Project:** GSM  
**Title:** Transmission of Digital Signals  
**Country of registration:** MY  
**Application no.:** PI9602981  
**Countries applicable:** MY  
**ETSI Deliverable:** GSM 02.53

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**Company name:** BT  
**Project:** GSM  
**Title:** Transmission of Digital Signals  
**Country of registration:** NO  
**Application no.:** 980260  
**Countries applicable:** NO  
**ETSI Deliverable:** GSM 02.53

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**Company name:** BT  
**Project:** GSM  
**Title:** Transmission of Digital Signals  
**Country of registration:** NZ  
**Application no.:** 313228  
**Countries applicable:** NZ  
**ETSI Deliverable:** GSM 02.53

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**Company name:** BT  
**Project:** GSM  
**Title:** Transmission of Digital Signals  
**Country of registration:** US  
**Application no.:** 983578/08  
**Countries applicable:** US  
**ETSI Deliverable:** GSM 02.53

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** IMPROVING SECURITY OF PACKET-MODE TRANSMISSION IN A MOBILE COMMUNICATION SYSTEM  
**Country of registration:** JP  
**Application no.:** 9-531490  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** DEPTH-FIRST ALGEBRAIC CODEBOOK SEARCH FOR FAST CODING OF SPEECH  
**Country of registration:** AR  
**Application no.:** P960101681  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** BT  
**Project:** GSM  
**Title:** Transmission of Digital Signals  
**Country of registration:** CN  
**Application no.:** 96196861.3  
**Countries applicable:** CN  
**ETSI Deliverable:** GSM 02.53

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**Company name:** BT  
**Project:** GSM  
**Title:** Telecommunications System  
**Country of registration:** KR  
**Application no.:** 706251/96  
**Countries applicable:** KR  
**ETSI Deliverable:** GSM 03.93 and GSM 04.93

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** TRANSCODER WITH PREVENTION OF TANDEM CODING OF SPEECH  
**Country of registration:** JP  
**Application no.:** 8-530745  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** TRANSCODER WITH PREVENTION OF TANDEM CODING OF SPEECH  
**Country of registration:** NO  
**Application no.:** 974705  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** TRANSCODER WITH PREVENTION OF TANDEM CODING OF SPEECH  
**Country of registration:** SG  
**Application no.:** 9705023-1  
**Patent no.:** 46046  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** TRANSCODER WITH PREVENTION OF TANDEM CODING OF SPEECH  
**Country of registration:** US  
**Application no.:** 08/930988  
**Patent no.:** 5991716  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** BT  
**Project:** GSM  
**Title:** Telecommunications System  
**Country of registration:** EPO  
**Patent no.:** 761067  
**Countries applicable:** BE, DK, FR, DE, IT, NL, ES, SE, CH, GB  
**ETSI Deliverable:** GSM 03.93 and GSM 04.93

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**Company name:** BT  
**Project:** GSM  
**Title:** Telecommunications System  
**Country of registration:** CA  
**Application no.:** 2189772  
**Countries applicable:** CA  
**ETSI Deliverable:** GSM 03.93 and GSM 04.93

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**Company name:** BT  
**Project:** GSM  
**Title:** Telecommunications System  
**Country of registration:** CN  
**Application no.:** 95193283.7  
**Countries applicable:** CN  
**ETSI Deliverable:** GSM 03.93 and GSM 04.93

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**Company name:** BT  
**Project:** GSM  
**Title:** Telecommunications System  
**Country of registration:** FI  
**Application no.:** 964658  
**Countries applicable:** FI  
**ETSI Deliverable:** GSM 03.93 and GSM 04.93

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**Company name:** BT  
**Project:** GSM  
**Title:** Cellular Radio Systems  
**Country of registration:** SG  
**Application no.:** 9603226-3  
**Countries applicable:** SG  
**ETSI Deliverable:** GSM 02.67, 02.68, 02.69, 03.67, 03.68, 03.69

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**Company name:** BT  
**Project:** GSM  
**Title:** Telecommunications System  
**Country of registration:** JP  
**Application no.:** 96-500498  
**Countries applicable:** JP  
**ETSI Deliverable:** GSM 03.93 and GSM 04.93

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** DATA TRANSMISSION SYSTEM WITH SLIDING-WINDOW DATA FLOW CONTROL  
**Country of registration:** JP  
**Application no.:** 8533810  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** BT  
**Project:** GSM  
**Title:** Telecommunications System  
**Country of registration:** SG  
**Application no.:** 9604081-1  
**Countries applicable:** SG  
**ETSI Deliverable:** GSM 03.93 and GSM 04.93

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**Company name:** BT  
**Project:** GSM  
**Title:** Telecommunications System  
**Country of registration:** NO  
**Application no.:** 965034  
**Countries applicable:** NO  
**ETSI Deliverable:** GSM 03.93 and GSM 04.93

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**Company name:** BT  
**Project:** GSM  
**Title:** Telecommunications System  
**Country of registration:** US  
**Application no.:** 673474/08  
**Countries applicable:** US  
**ETSI Deliverable:** GSM 03.93 and GSM 04.93

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**Company name:** BT  
**Project:** GSM  
**Title:** Cellular Radio Systems  
**Country of registration:** CA  
**Application no.:** 2162730  
**Countries applicable:** CA  
**ETSI Deliverable:** GSM 02.67, 02.68, 02.69, 03.67, 03.68, 03.69

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<b>Company name:</b>	BT
<b>Project:</b>	GSM
<b>Title:</b>	Cellular Radio Systems
<b>Country of registration:</b>	CN
<b>Application no.:</b>	94192537.4
<b>Countries applicable:</b>	CN
<b>ETSI Deliverable:</b>	GSM 02.67, 02.68, 02.69, 03.67, 03.68, 03.69
<b>Company name:</b>	BT
<b>Project:</b>	GSM
<b>Title:</b>	Cellular Radio Systems
<b>Country of registration:</b>	FI
<b>Application no.:</b>	955579
<b>Countries applicable:</b>	FI
<b>ETSI Deliverable:</b>	GSM 02.67, 02.68, 02.69, 03.67, 03.68, 03.69
<b>Company name:</b>	BT
<b>Project:</b>	GSM
<b>Title:</b>	Cellular Radio Systems
<b>Country of registration:</b>	HU
<b>Application no.:</b>	P9503283
<b>Countries applicable:</b>	HU
<b>ETSI Deliverable:</b>	GSM 02.67, 02.68, 02.69, 03.67, 03.68, 03.69
<b>Company name:</b>	BT
<b>Project:</b>	GSM
<b>Title:</b>	Cellular Radio Systems
<b>Country of registration:</b>	IN
<b>Application no.:</b>	422/MAS/94
<b>Countries applicable:</b>	IN
<b>ETSI Deliverable:</b>	GSM 02.67, 02.68, 02.69, 03.67, 03.68, 03.69
<b>Company name:</b>	BT
<b>Project:</b>	GSM
<b>Title:</b>	Cellular Radio Systems
<b>Country of registration:</b>	JP
<b>Application no.:</b>	95-500381
<b>Countries applicable:</b>	JP
<b>ETSI Deliverable:</b>	GSM 02.67, 02.68, 02.69, 03.67, 03.68, 03.69
<b>Company name:</b>	BT
<b>Project:</b>	GSM
<b>Title:</b>	Telecommunications System
<b>Country of registration:</b>	IN
<b>Application no.:</b>	707/MAS/95
<b>Countries applicable:</b>	IN
<b>ETSI Deliverable:</b>	GSM 03.93 and GSM 04.93
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	DEPTH-FIRST ALGEBRAICH CODEBOOK SEARCH FOR FAST CODING OF SPEECH
<b>Country of registration:</b>	GB
<b>Application no.:</b>	9605123
<b>Patent no.:</b>	2299001
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** AT&T  
**Project:** GSM  
**Title:** Digital Speech Coder  
**Country of registration:** CA  
**Patent no.:** 1 181 854  
**Notes:** AT&T have stated that all of the identified patents have corresponding foreign pending applications but they have elected to provide details of granted patents only -as, and when, patents are granted pursuant to the pending applications, ETSI will be informed. AT&T have stated to ETSI that Licensing enquires should be sent to: AT&T, 10 Independence Blvd, Warren, NJ 07059-6799, USA, marked for the attention of: Herb Winfield (Tel: +1 908 580-5916, Fax: +1 908 580-4082). However, indications are that Lucent Technologies will take responsibility for the licensing of AT&T's patents. No other contact has been provided.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** MULTIBAND MOBILE TELEPHONE SYSTEM  
**Country of registration:** CN  
**Application no.:** 96190506,9  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** MULTIBAND MOBILE TELEPHONE SYSTEM  
**Country of registration:** EPO  
**Application no.:** 96914224  
**Countries applicable:** AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** MULTIBAND MOBILE TELEPHONE SYSTEM  
**Country of registration:** HK  
**Application no.:** 98112483,2  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** MULTIBAND MOBILE TELEPHONE SYSTEM  
**Country of registration:** JP  
**Application no.:** 8534589  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** MULTIBAND MOBILE TELEPHONE SYSTEM  
**Country of registration:** KR  
**Application no.:** 700253  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** MULTIBAND MOBILE TELEPHONE SYSTEM  
**Country of registration:** SG  
**Application no.:** 9700803-1  
**Patent no.:** 37836  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** MULTIBAND MOBILE TELEPHONE SYSTEM  
**Country of registration:** US  
**Application no.:** 08/776279  
**Patent no.:** 5960354  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** DEPTH-FIRST ALGEBRAICH CODEBOOK SEARCH FOR FAST CODING OF SPEECH  
**Country of registration:** JP  
**Application no.:** 527130/96  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** DEPTH-FIRST ALGEBRAICH CODEBOOK SEARCH FOR FAST CODING OF SPEECH  
**Country of registration:** HK  
**Application no.:** 98100818,3  
**Patent no.:** HK1001846  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** DEPTH-FIRST ALGEBRAICH CODEBOOK SEARCH FOR FAST CODING OF SPEECH  
**Country of registration:** KR  
**Application no.:** 97-706298  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** DEPTH-FIRST ALGEBRAICH CODEBOOK SEARCH FOR FAST CODING OF SPEECH  
**Country of registration:** FR  
**Application no.:** 9602957  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.



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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** DEPTH-FIRST ALGEBRAICH CODEBOOK SEARCH FOR FAST CODING OF SPEECH  
**Country of registration:** ES  
**Application no.:** 9650035  
**Patent no.:** 9650035  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** DEPTH-FIRST ALGEBRAICH CODEBOOK SEARCH FOR FAST CODING OF SPEECH  
**Country of registration:** EPO  
**Application no.:** 96903854,6  
**Patent no.:** 516621  
**Countries applicable:** DE, ES, FR, GB, IT, SE  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** DEPTH-FIRST ALGEBRAICH CODEBOOK SEARCH FOR FAST CODING OF SPEECH  
**Country of registration:** DE  
**Application no.:** 19609170,5  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** DEPTH-FIRST ALGEBRAICH CODEBOOK SEARCH FOR FAST CODING OF SPEECH  
**Country of registration:** CN  
**Application no.:** 96193196,5  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** DEPTH-FIRST ALGEBRAICH CODEBOOK SEARCH FOR FAST CODING OF SPEECH  
**Country of registration:** CA  
**Application no.:** 2213740  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** DEPTH-FIRST ALGEBRAICH CODEBOOK SEARCH FOR FAST CODING OF SPEECH  
**Country of registration:** BR  
**Application no.:** PI9607144.3  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** DEPTH-FIRST ALGEBRAICH CODEBOOK SEARCH FOR FAST CODING OF SPEECH  
**Country of registration:** AU  
**Application no.:** 47811/96  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** TRANSCODER WITH PREVENTION OF TANDEM CODING OF SPEECH  
**Country of registration:** HK  
**Application no.:** 98109501,6  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** DEPTH-FIRST ALGEBRAICH CODEBOOK SEARCH FOR FAST CODING OF SPEECH  
**Country of registration:** IN  
**Application no.:** 422CAL96  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD AND APPARATUS FOR SPEECH TRANSMISSION IN A MOBILE COMMUNICATIONS SYSTEM  
**Country of registration:** NO  
**Application no.:** 960979  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** DATA TRANSMISSION SYSTEM WITH SLIDING-WINDOW DATA FLOW CONTROL  
**Country of registration:** KR  
**Application no.:** 707574  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** DATA TRANSMISSION SYSTEM WITH SLIDING-WINDOW DATA FLOW CONTROL  
**Country of registration:** SG  
**Application no.:** 96122478  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** DATA TRANSMISSION SYSTEM WITH SLIDING-WINDOW DATA FLOW CONTROL  
**Country of registration:** US  
**Application no.:** 09/765067  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** DATA TRANSMISSION SYSTEM WITH SLIDING-WINDOW DATA FLOW CONTROL  
**Country of registration:** US  
**Application no.:** 765067  
**Patent no.:** 5930233  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** MULTIBAND MOBILE TELEPHONE SYSTEM  
**Country of registration:** FI  
**Application no.:** 952382  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** MULTIBAND MOBILE TELEPHONE SYSTEM  
**Country of registration:** AU  
**Application no.:** 5765396  
**Patent no.:** 706206  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** MULTIBAND MOBILE TELEPHONE SYSTEM  
**Country of registration:** CA  
**Application no.:** 2194542  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** PREDICTIVE SPLIT-MATRIX QUANTIZATION OF SPECTRAL PARAMETERS FOR EFFICIENT CODING OF SPEECH  
**Country of registration:** AU  
**Application no.:** 52633/96  
**Patent no.:** 697256  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** DEPTH-FIRST ALGEBRAICH CODEBOOK SEARCH FOR FAST CODING OF SPEECH  
**Country of registration:** IT  
**Application no.:** TO96A000174  
**Patent no.:** 1285305  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD AND APPARATUS FOR SPEECH TRANSMISSION IN A MOBILE COMMUNICATIONS SYSTEM  
**Country of registration:** US  
**Application no.:** 08/612934  
**Patent no.:** 5862178  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** DATA TRANSMISSION SYSTEM WITH SLIDING-WINDOW DATA FLOW CONTROL  
**Country of registration:** FI  
**Application no.:** 952256  
**Patent no.:** 98174  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD AND APPARATUS FOR SPEECH TRANSMISSION IN A MOBILE COMMUNICATIONS SYSTEM  
**Country of registration:** JP  
**Application no.:** 8-504136  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD AND APPARATUS FOR SPEECH TRANSMISSION IN A MOBILE COMMUNICATIONS SYSTEM  
**Country of registration:** EPO  
**Application no.:** 95924336,1  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD AND APPARATUS FOR SPEECH TRANSMISSION IN A MOBILE COMMUNICATIONS SYSTEM  
**Country of registration:** CN  
**Application no.:** 95190620,8  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD AND APPARATUS FOR SPEECH TRANSMISSION IN A MOBILE COMMUNICATIONS SYSTEM  
**Country of registration:** AU  
**Application no.:** 28887/95  
**Patent no.:** 695150  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD AND APPARATUS FOR SPEECH TRANSMISSION IN A MOBILE COMMUNICATIONS SYSTEM  
**Country of registration:** FI  
**Application no.:** 943302  
**Patent no.:** 96650  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** DEPTH-FIRST ALGEBRAICH CODEBOOK SEARCH FOR FAST CODING OF SPEECH  
**Country of registration:** SE  
**Application no.:** 9600918-8  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** DEPTH-FIRST ALGEBRAICH CODEBOOK SEARCH FOR FAST CODING OF SPEECH  
**Country of registration:** RU  
**Application no.:** 97116484  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** DEPTH-FIRST ALGEBRAICH CODEBOOK SEARCH FOR FAST CODING OF SPEECH  
**Country of registration:** MY  
**Application no.:** PI9600844  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** DEPTH-FIRST ALGEBRAICH CODEBOOK SEARCH FOR FAST CODING OF SPEECH  
**Country of registration:** MX  
**Application no.:** 97/06885  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** PREDICTIVE SPLIT-MATRIX QUANTIZATION OF SPECTRAL PARAMETERS FOR EFFICIENT CODING OF SPEECH  
**Country of registration:** US  
**Application no.:** 416019  
**Patent no.:** 5664053  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** BT  
**Project:** GSM  
**Title:** Voice Activity Detector  
**Country of registration:** HK  
**Patent no.:** 1358/96  
**Countries applicable:** HK  
**Notes:** BT have stated that the identified patents may be relevant to the full rate GSM Voice Activity Detector, that the patents claim priority from GB 880 9795 and that the patent was the subject of a BT/ETSI undertaking dated 4th April 1990. It should be noted that the provisions of this undertaking provides for royalty free licences if certain conditions are satisfied by a licensee. BT contact (see note 2).

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**Company name:** Matra  
**Project:** GSM  
**Title:** Procédé et Installation de Radiotéléphonie Numérique notamment de Radiotéléphonie Cellulaire de Communication avec les Mobiles  
**Country of registration:** AU  
**Application no.:** 638 160  
**Countries applicable:** AU  
**ETSI Deliverable:** GSM 04.08, V4.9.0

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**Company name:** Alcatel  
**Project:** GSM  
**Title:** TRAU/BTS Error Procedure  
**Country of registration:** EPO  
**Patent no.:** EP 686325  
**Countries applicable:** AT, BE, DK, DE, IT, NL, ES, SE, CH, GB  
**ETSI Deliverable:** GSM 08.60 and 08.61

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**Company name:** Alcatel  
**Project:** GSM  
**Title:** TRAU/BTS Error Procedure  
**Country of registration:** FR  
**Patent no.:** FR 2702111  
**Countries applicable:** FR  
**ETSI Deliverable:** GSM 08.60 and 08.61

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**Company name:** Alcatel  
**Project:** GSM  
**Title:** TRAU/BTS Error Procedure  
**Country of registration:** FI  
**Patent no.:** FI 9503969  
**Countries applicable:** FI  
**ETSI Deliverable:** GSM 08.60 and 08.61

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**Company name:** Alcatel  
**Project:** GSM  
**Title:** TRAU/BTS Error Procedure  
**Country of registration:** NO  
**Patent no.:** NO 9503356  
**Countries applicable:** NO  
**ETSI Deliverable:** GSM 08.60 and 08.61

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**Company name:** Alcatel  
**Project:** GSM  
**Title:** TRAU/BTS Error Procedure  
**Country of registration:** US  
**Application no.:** SerNo 495615  
**Countries applicable:** US  
**ETSI Deliverable:** GSM 08.60 and 08.61

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**Company name:** Alcatel  
**Project:** GSM  
**Title:** TRAU/BTS Error Procedure  
**Country of registration:** AU  
**Patent no.:** AU 9461115  
**Countries applicable:** US  
**ETSI Deliverable:** GSM 08.60 and 08.61

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**Company name:** Alcatel  
**Project:** GSM  
**Title:** TRAN/BTS Error Procedure  
**Country of registration:** JP  
**Application no.:** 518716/94  
**Countries applicable:** JP  
**ETSI Deliverable:** GSM 08.60 and 08.61

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**Company name:** Alcatel  
**Project:** GSM  
**Title:** TRAU/BTS Error Procedure  
**Country of registration:** CN  
**Application no.:** 94-191289  
**Countries applicable:** CN  
**ETSI Deliverable:** GSM 08.60 and 08.61

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**Company name:** Alcatel  
**Project:** GSM  
**Title:** Data frame transmission system for transmitter and receiver  
**Country of registration:** EPO  
**Patent no.:** EP 642242  
**Countries applicable:** AT, BE, DK, FR, DE, IT, NL, ES, SE, CH, GB  
**ETSI Deliverable:** GSM 08.61

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**Company name:** Alcatel  
**Project:** GSM  
**Title:** Data frame transmission system for transmitter and receiver  
**Country of registration:** FI  
**Patent no.:** FI 9404071  
**Countries applicable:** FI  
**ETSI Deliverable:** GSM 08.61

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**Company name:** Alcatel  
**Project:** GSM  
**Title:** Data frame transmission system for transmitter and receiver  
**Country of registration:** FR  
**Patent no.:** FR 2709901  
**Countries applicable:** FR  
**ETSI Deliverable:** GSM 08.61

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**Company name:** Alcatel  
**Project:** GSM  
**Title:** Hand-over technique for transferring calls between adjacent cells of cellular phone system  
**Country of registration:** JP  
**Application no.:** 525067/94  
**Countries applicable:** JP  
**ETSI Deliverable:** GSM 04.08 and 05.10

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**Company name:** BT  
**Project:** GSM  
**Title:** Voice Activity Detector  
**Country of registration:** CA  
**Patent no.:** CA 1335003  
**Countries applicable:** CA  
**Notes:** BT have stated that the identified patents may be relevant to the full rate GSM Voice Activity Detector, that the patents claim priority form GB 880 9795 and that the patent was the subject of a BT/ETSI undertaking dated 4th April 1990. It should be noted that the provisions of this undertaking provides for royalty free licences if certain conditions are satisfied by a licensee. BT contact (see note 2).

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**Company name:** Alcatel  
**Project:** GSM  
**Title:** Hand-over technique for transferring calls between adjacent cells of cellular phone system  
**Country of registration:** CA  
**Application no.:** 2162707  
**Countries applicable:** CA  
**ETSI Deliverable:** GSM 04.08 and 05.10

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**Company name:** BT  
**Project:** GSM  
**Title:** Voice Activity Detector  
**Country of registration:** IE  
**Patent no.:** IE 61863  
**Countries applicable:** IE  
**Notes:** BT have stated that the identified patents may be relevant to the full rate GSM Voice Activity Detector, that the patents claim priority form GB 880 9795 and that the patent was the subject of a BT/ETSI undertaking dated 4th April 1990. It should be noted that the provisions of this undertaking provides for royalty free licences if certain conditions are satisfied by a licensee. BT contact (see note 2).

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**Company name:** BT  
**Project:** GSM  
**Title:** Voice Activity Detector  
**Country of registration:** NZ  
**Patent no.:** 228290  
**Countries applicable:** NZ  
**Notes:** BT have stated that the identified patents may be relevant to the full rate GSM Voice Activity Detector, that the patents claim priority form GB 880 9795 and that the patent was the subject of a BT/ETSI undertaking dated 4th April 1990. It should be noted that the provisions of this undertaking provides for royalty free licences if certain conditions are satisfied by a licensee. BT contact (see note 2).

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**Company name:** BT  
**Project:** GSM  
**Title:** Voice Activity Detector  
**Country of registration:** PT  
**Patent no.:** 89978  
**Countries applicable:** PT  
**Notes:** BT have stated that the identified patents may be relevant to the full rate GSM Voice Activity Detector, that the patents claim priority form GB 880 9795 and that the patent was the subject of a BT/ETSI undertaking dated 4th April 1990. It should be noted that the provisions of this undertaking provides for royalty free licences if certain conditions are satisfied by a licensee. BT contact (see note 2).

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**Company name:** BT  
**Project:** GSM  
**Title:** Voice Activity Detector  
**Country of registration:** SG  
**Patent no.:** 9691600-2  
**Countries applicable:** SG  
**Notes:** BT have stated that the identified patents may be relevant to the full rate GSM Voice Activity Detector, that the patents claim priority form GB 880 9795 and that the patent was the subject of a BT/ETSI undertaking dated 4th April 1990. It should be noted that the provisions of this undertaking provides for royalty free licences if certain conditions are satisfied by a licensee. BT contact (see note 2).



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**Company name:** Mitsubishi Electric Corporation  
**Project:** GSM  
**Title:** Method and Apparatus for Handoff of in Call Progress  
**Country of registration:** GB  
**Patent no.:** GB2 204 215  
**Countries applicable:** GB  
**ETSI Deliverable:** GSM 03.09 and 05.08

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**Company name:** Mitsubishi Electric Corporation  
**Project:** GSM  
**Title:** Method and Apparatus for Handoff of in Call Progress  
**Country of registration:** US  
**Patent no.:** US 5 067 171  
**Countries applicable:** US  
**ETSI Deliverable:** GSM 03.09 and 05.08

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**Company name:** Mitsubishi Electric Corporation  
**Project:** GSM  
**Title:** Method and Apparatus for Handoff of in Call Progress  
**Country of registration:** CA  
**Patent no.:** CA 1 306 014  
**Countries applicable:** CA  
**ETSI Deliverable:** GSM 03.09 and 05.08

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**Company name:** Mitsubishi Electric Corporation  
**Project:** GSM  
**Title:** Method and Apparatus for Handoff of in Call Progress  
**Country of registration:** NO  
**Patent no.:** NO 174 448 B  
**Countries applicable:** NO  
**ETSI Deliverable:** GSM 03.09 and 05.08

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**Company name:** Mitsubishi Electric Corporation  
**Project:** GSM  
**Title:** Method and Apparatus for Handoff of in Call Progress  
**Country of registration:** SG  
**Patent no.:** SG 606/64  
**Countries applicable:** SI  
**ETSI Deliverable:** GSM 03.09 and 05.08

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**Company name:** Mitsubishi Electric Corporation  
**Project:** GSM  
**Title:** Method and Apparatus for Handoff of in Call Progress  
**Country of registration:** HK  
**Patent no.:** HK 923/94  
**Countries applicable:** HK  
**ETSI Deliverable:** GSM 03.09 and 05.08

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**Company name:** Mitsubishi Electric Corporation  
**Project:** GSM  
**Title:** Method and Apparatus for Handoff of in Call Progress  
**Country of registration:** SE  
**Patent no.:** Published SE 8 801 191  
**Countries applicable:** SE  
**ETSI Deliverable:** GSM 03.09 and 05.08

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**Company name:** Mitsubishi Electric Corporation  
**Project:** GSM  
**Title:** Method and Apparatus for Handoff of in Call Progress  
**Country of registration:** DK  
**Patent no.:** DK 8 801 699  
**Countries applicable:** DK  
**ETSI Deliverable:** GSM 03.09 and 05.08

<b>Company name:</b>	Mitsubishi Electric Corporation
<b>Project:</b>	GSM
<b>Title:</b>	Method and Apparatus for Handoff of in Call Progress
<b>Country of registration:</b>	JP
<b>Patent no.:</b>	Published JP 63245142
<b>Countries applicable:</b>	JP
<b>ETSI Deliverable:</b>	GSM 03.09 and 05.08
<b>Company name:</b>	Alcatel
<b>Project:</b>	GSM
<b>Title:</b>	Data frame transmission system for transmitter and receiver
<b>Country of registration:</b>	US
<b>Application no.:</b>	SerNo 301587
<b>Countries applicable:</b>	US
<b>ETSI Deliverable:</b>	GSM 08.61
<b>Company name:</b>	Alcatel
<b>Project:</b>	GSM
<b>Title:</b>	Software downloading for a telecommunications terminal
<b>Country of registration:</b>	AU
<b>Patent no.:</b>	AU 643526
<b>Countries applicable:</b>	AU
<b>ETSI Deliverable:</b>	GSM 11.14
<b>Company name:</b>	Robert Bosch GmbH
<b>Project:</b>	GSM
<b>Title:</b>	Method for decoding binary signals
<b>Country of registration:</b>	DE
<b>Application no.:</b>	EP 92118663.1
<b>Patent no.:</b>	542065
<b>Countries applicable:</b>	BE, CH, ES, FI, FR, GB, IT, NL, SE
<b>ETSI Deliverable:</b>	GSM 06.21, V5.0.1
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Matra
<b>Project:</b>	GSM
<b>Title:</b>	Procédé de pseudo-synchronisation d'un réseau de communication à multiplexage dans le temps et applications
<b>Country of registration:</b>	EPO
<b>Application no.:</b>	0398773 B1
<b>Countries applicable:</b>	AT, BE, CH, DE, DK, ES, GB, IT, LI, LU, NL, SE
<b>ETSI Deliverable:</b>	GSM 04.08, version 05.10
<b>Company name:</b>	Matra
<b>Project:</b>	GSM
<b>Title:</b>	Procédé et installation de radiotéléphonie numérique notamment de radiotéléphonie cellulaire de communication à multiplexage dans le temps et applications
<b>Country of registration:</b>	FR
<b>Application no.:</b>	90 10 485
<b>Countries applicable:</b>	FR
<b>ETSI Deliverable:</b>	GSM 04.08, V4.9.0
<b>Company name:</b>	Matra
<b>Project:</b>	GSM
<b>Title:</b>	Procédé de pseudo-synchronisation d'un réseau de communication à multiplexage dans le temps et applications
<b>Country of registration:</b>	AU
<b>Application no.:</b>	622 543
<b>Countries applicable:</b>	AU
<b>ETSI Deliverable:</b>	GSM 04.08, version 05.10

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**Company name:** Matra  
**Project:** GSM  
**Title:** Procédé de pseudo-synchronisation d'un réseau de communication à multiplexage dans le temps et applications  
**Country of registration:** BR  
**Application no.:** PI 900 1902.4  
**Countries applicable:** BR  
**ETSI Deliverable:** GSM 04.08, version 05.10

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**Company name:** Matra  
**Project:** GSM  
**Title:** Procédé de pseudo-synchronisation d'un réseau de communication à multiplexage dans le temps et applications  
**Country of registration:** CA  
**Application no.:** 2 015 237  
**Countries applicable:** CA  
**ETSI Deliverable:** GSM 04.08, version 05.10

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**Company name:** Matra  
**Project:** GSM  
**Title:** Procédé de pseudo-synchronisation d'un réseau de communication à multiplexage dans le temps et applications  
**Country of registration:** FI  
**Application no.:** 90 2080  
**ETSI Deliverable:** GSM 04.08, version 05.10

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**Company name:** Matra  
**Project:** GSM  
**Title:** Procédé de pseudo-synchronisation d'un réseau de communication à multiplexage dans le temps et applications  
**Country of registration:** IE  
**Application no.:** 65 521  
**Countries applicable:** IE  
**ETSI Deliverable:** GSM 04.08, version 05.10

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**Company name:** Matra  
**Project:** GSM  
**Title:** Procédé de pseudo-synchronisation d'un réseau de communication à multiplexage dans le temps et applications  
**Country of registration:** JP  
**Application no.:** 1 986 761  
**Countries applicable:** JP  
**ETSI Deliverable:** GSM 04.08, version 05.10

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**Company name:** Matra  
**Project:** GSM  
**Title:** Procédé de pseudo-synchronisation d'un réseau de communication à multiplexage dans le temps et applications  
**Country of registration:** NO  
**Application no.:** 90 18 15  
**Countries applicable:** NO  
**ETSI Deliverable:** GSM 04.08, version 05.10

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**Company name:** Matra  
**Project:** GSM  
**Title:** Procédé de pseudo-synchronisation d'un réseau de communication à multiplexage dans le temps et applications  
**Country of registration:** PT  
**Application no.:** 93 870  
**Countries applicable:** PT  
**ETSI Deliverable:** GSM 04.08, version 05.10

<b>Company name:</b>	Matra
<b>Project:</b>	GSM
<b>Title:</b>	Procédé de pseudo-synchronisation d'un réseau de communication à multiplexage dans le temps et applications
<b>Country of registration:</b>	US
<b>Application no.:</b>	5 128 925
<b>Countries applicable:</b>	US
<b>ETSI Deliverable:</b>	GSM 04.08, version 05.10
<b>Company name:</b>	Alcatel
<b>Project:</b>	GSM
<b>Title:</b>	Hand-over technique for transferring calls between adjacent cells of cellular phone system
<b>Country of registration:</b>	CN
<b>Application no.:</b>	94-192099
<b>Countries applicable:</b>	CN
<b>ETSI Deliverable:</b>	GSM 04.08 and 05.10
<b>Company name:</b>	Alcatel
<b>Project:</b>	GSM
<b>Title:</b>	Computer-controlled radiotelephone
<b>Country of registration:</b>	EPO
<b>Patent no.:</b>	EP 297616
<b>Countries applicable:</b>	AT, BE, FR, DE, GR, IT, NL, ES, SE, GB
<b>ETSI Deliverable:</b>	GSM 03.26
<b>Company name:</b>	Mitsubishi Electric Corporation
<b>Project:</b>	GSM
<b>Title:</b>	Control Device for Radio Communication Apparatus
<b>Country of registration:</b>	JP
<b>Patent no.:</b>	Published JP 406 882 7
<b>Countries applicable:</b>	JP
<b>ETSI Deliverable:</b>	GSM 05 series
<b>Notes:</b>	TDMA Timing Control
<b>Company name:</b>	Alcatel
<b>Project:</b>	GSM
<b>Title:</b>	Method of transmitting timing advance data to a mobile moving in cells of an asynchronous-BTS GSM network
<b>Country of registration:</b>	EPO
<b>Patent no.:</b>	EP 589753
<b>Countries applicable:</b>	AT, BE, DK, FR, DE, GR, IE, IT, NL, PT, ES, SE, CH, GB
<b>ETSI Deliverable:</b>	GSM 04.08 and 05.10
<b>Company name:</b>	Alcatel
<b>Project:</b>	GSM
<b>Title:</b>	Method of transmitting timing advance data to a mobile moving in cells of an asynchronous-BTS GSM network
<b>Country of registration:</b>	FI
<b>Patent no.:</b>	FI 9304006
<b>Countries applicable:</b>	FI
<b>ETSI Deliverable:</b>	GSM 04.08 and 05.10
<b>Company name:</b>	Alcatel
<b>Project:</b>	GSM
<b>Title:</b>	A method of transmitting timing advance data to a mobile moving in cells of an asynchronous-BTS GSM network
<b>Country of registration:</b>	FR
<b>Patent no.:</b>	FR 2695776
<b>Countries applicable:</b>	FR
<b>ETSI Deliverable:</b>	GSM 04.08 and 05.10

<b>Company name:</b>	Alcatel
<b>Project:</b>	GSM
<b>Title:</b>	A method of transmitting timing advance data to a mobile moving in cells of an asynchronous-BTS GSM network
<b>Country of registration:</b>	NO
<b>Patent no.:</b>	NO 9303254
<b>Countries applicable:</b>	NO
<b>ETSI Deliverable:</b>	GSM 04.08 and 05.10
<b>Company name:</b>	Alcatel
<b>Project:</b>	GSM
<b>Title:</b>	A method of transmitting timing advance data to a mobile moving in cells of an asynchronous-BTS GSM network
<b>Country of registration:</b>	NZ
<b>Patent no.:</b>	NZ 248564
<b>Countries applicable:</b>	NZ
<b>ETSI Deliverable:</b>	GSM 04.08 and 05.10
<b>Company name:</b>	Alcatel
<b>Project:</b>	GSM
<b>Title:</b>	A method of transmitting timing advance data to a mobile moving in cells of an asynchronous-BTS GSM network
<b>Country of registration:</b>	CN
<b>Application no.:</b>	CN 93-119206
<b>Countries applicable:</b>	CN
<b>ETSI Deliverable:</b>	GSM 04.08 and 05.10
<b>Company name:</b>	Alcatel
<b>Project:</b>	GSM
<b>Title:</b>	A method of transmitting timing advance data to a mobile moving in cells of an asynchronous-BTS GSM network
<b>Country of registration:</b>	SG
<b>Patent no.:</b>	SP 9605241-0
<b>Countries applicable:</b>	SG
<b>ETSI Deliverable:</b>	GSM 04.08 and 05.10
<b>Company name:</b>	Alcatel
<b>Project:</b>	GSM
<b>Title:</b>	A method of transmitting timing advance data to a mobile moving in cells of an asynchronous-BTS GSM network
<b>Country of registration:</b>	IN
<b>Application no.:</b>	1052/DEL/93
<b>Countries applicable:</b>	IN
<b>ETSI Deliverable:</b>	GSM 04.08 and 05.10
<b>Company name:</b>	Alcatel
<b>Project:</b>	GSM
<b>Title:</b>	Hand-over technique for transferring calls between adjacent cells of cellular phone system
<b>Country of registration:</b>	EPO
<b>Patent no.:</b>	EP 698318
<b>Countries applicable:</b>	AT, BE, DK, FR, DE, IT, NL, ES, SE, CH, GB
<b>ETSI Deliverable:</b>	GSM 04.08 and 05.10
<b>Company name:</b>	Alcatel
<b>Project:</b>	GSM
<b>Title:</b>	Hand-over technique for transferring calls between adjacent cells of cellular phone system
<b>Country of registration:</b>	FI
<b>Patent no.:</b>	FI 9505437
<b>Countries applicable:</b>	FI
<b>ETSI Deliverable:</b>	GSM 04.08 and 05.10

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**Company name:** Alcatel  
**Project:** GSM  
**Title:** Hand-over technique for transferring calls between adjacent cells of cellular phone system  
**Country of registration:** FR  
**Patent no.:** FR 2705514  
**Countries applicable:** FR  
**ETSI Deliverable:** GSM 04.08 and 05.10

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**Company name:** Alcatel  
**Project:** GSM  
**Title:** Hand-over technique for transferring calls between adjacent cells of cellular phone system  
**Country of registration:** AU  
**Patent no.:** AU 9467885  
**Countries applicable:** AU  
**ETSI Deliverable:** GSM 04.08 and 05.10

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**Company name:** Alcatel  
**Project:** GSM  
**Title:** Hand-over technique for transferring calls between adjacent cells of cellular phone system  
**Country of registration:** US  
**Application no.:** SerNo 545869  
**Countries applicable:** US  
**ETSI Deliverable:** GSM 04.08 and 05.10

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**Company name:** Alcatel  
**Project:** GSM  
**Title:** Mobile Radio Network  
**Country of registration:** DE  
**Application no.:** P 36 38 735  
**Patent no.:** DE 3638735  
**Countries applicable:** DE  
**ETSI Deliverable:** GSM 02.16, 03.03 and 04.08  
**Notes:** jointly owned with Siemens.

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**Company name:** Alcatel  
**Project:** GSM  
**Title:** A transmission burst organized for discontinuous transmission  
**Country of registration:** FI  
**Patent no.:** FI 9600300  
**Countries applicable:** FI  
**ETSI Deliverable:** GSM 05.03

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**Company name:** Nokia  
**Project:** GSM  
**Title:** Location updating for a packet-switched data service in a mobile communication system  
**Country of registration:** FI  
**Application no.:** FI 941652  
**Patent no.:** FI 95984  
**ETSI Deliverable:** GSM 03.60

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**Company name:** Nokia  
**Project:** GSM  
**Title:** Location updating for a packet-switched data service in a mobile communication system  
**Country of registration:** PCT  
**Application no.:** PCT/FI95/00191  
**Patent no.:** WO 9528063  
**ETSI Deliverable:** GSM 03.60

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**Company name:** Nokia  
**Project:** GSM  
**Title:** Location updating for a packet-switched data service in a mobile communication system  
**Country of registration:** AU  
**Application no.:** AU 2778795  
**Patent no.:** AU 9527787  
**ETSI Deliverable:** GSM 03.60

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**Company name:** Nokia  
**Project:** GSM  
**Title:** Location updating for a packet-switched data service in a mobile communication system  
**Country of registration:** EPO  
**Application no.:** EP 95915211.7  
**Patent no.:** EP 754395  
**Countries applicable:** AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE  
**ETSI Deliverable:** GSM 03.60

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**Company name:** Nokia  
**Project:** GSM  
**Title:** Data Transmission Method In A TDMA Mobile Communication System  
**Country of registration:** FI  
**Application no.:** FI 944487  
**Patent no.:** FI 96557  
**ETSI Deliverable:** GSM 03.34

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**Company name:** Nokia  
**Project:** GSM  
**Title:** Data Transmission Method In A TDMA Mobile Communication System  
**Country of registration:** PCT  
**Application no.:** PCT/FI95/00526  
**Patent no.:** WO 9610320  
**ETSI Deliverable:** GSM 03.34

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**Company name:** Nokia  
**Project:** GSM  
**Title:** Data Transmission Method In A TDMA Mobile Communication System  
**Country of registration:** AU  
**Application no.:** AU 35239/95  
**Patent no.:** AU 9535239  
**ETSI Deliverable:** GSM 03.34

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**Company name:** Nokia  
**Project:** GSM  
**Title:** Data Transmission Method In A TDMA Mobile Communication System  
**Country of registration:** EPO  
**Application no.:** EP 95932031  
**Patent no.:** EP 783826  
**Countries applicable:** AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE  
**ETSI Deliverable:** GSM 03.34

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**Company name:** Nokia  
**Project:** GSM  
**Title:** Data Transmission Method In A TDMA Mobile Communication System  
**Country of registration:** FI  
**Application no.:** FI 944488  
**Patent no.:** FI 96558  
**Countries applicable:** FI  
**ETSI Deliverable:** GSM 03.34

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**Company name:** Nokia  
**Project:** GSM  
**Title:** Data Transmission Method In A TDMA Mobile Communication System  
**Country of registration:** PCT  
**Application no.:** PCT/FI95/00527  
**Patent no.:** WO 9610305  
**ETSI Deliverable:** GSM 03.34

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**Company name:** Nokia  
**Project:** GSM  
**Title:** Data Transmission Method In A TDMA Mobile Communication System  
**Country of registration:** EPO  
**Application no.:** EP 95932032  
**Patent no.:** EP 783811  
**Countries applicable:** AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE  
**ETSI Deliverable:** GSM 03.34

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**Company name:** BT  
**Project:** GSM  
**Title:** Telecommunications System  
**Country of registration:** AU  
**Patent no.:** 685281  
**Countries applicable:** AU  
**ETSI Deliverable:** GSM 03.93 and GSM 04.93

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**Company name:** Mitsubishi Electric Corporation  
**Project:** GSM  
**Title:** Control Device for Radio Communication Apparatus  
**Country of registration:** EPO  
**Patent no.:** EP 0464 314 A  
**Countries applicable:** GB, FR, DE, SE  
**ETSI Deliverable:** GSM 05 series  
**Notes:** TDMA Timing Control

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**Company name:** Alcatel  
**Project:** GSM  
**Title:** A transmission burst organized for discontinuous transmission  
**Country of registration:** EPO  
**Patent no.:** EP 724342  
**Countries applicable:** AT, BE, DK, FR, DE, IT, NL, NO, ES, SE, CH, GB  
**ETSI Deliverable:** GSM 05.03

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**Company name:** Alcatel  
**Project:** GSM  
**Title:** Energy saving method in a terminal of a mobile radiocommunication network  
**Country of registration:** US  
**Application no.:** SerNo 666428  
**Countries applicable:** US  
**ETSI Deliverable:** GSM 03.41 and 04.12

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**Company name:** Alcatel  
**Project:** GSM  
**Title:** A transmission burst organized for discontinuous transmission  
**Country of registration:** FR  
**Patent no.:** FR 2729806  
**Countries applicable:** FR  
**ETSI Deliverable:** GSM 05.03

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**Company name:** Alcatel  
**Project:** GSM  
**Title:** A transmission burst organized for discontinuous transmission  
**Country of registration:** AU  
**Patent no.:** AU 9640950  
**Countries applicable:** AU  
**ETSI Deliverable:** GSM 05.03

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**Company name:** Alcatel  
**Project:** GSM  
**Title:** A transmission burst organized for discontinuous transmission  
**Country of registration:** NZ  
**Patent no.:** NZ 280835  
**Countries applicable:** NZ  
**ETSI Deliverable:** GSM 05.03

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**Company name:** Alcatel  
**Project:** GSM  
**Title:** Communication system for cellular radio telephone network  
**Country of registration:** EPO  
**Patent no.:** EP 466078  
**Countries applicable:** AT, BE, FR, DE, IT, NL, ES, SE, CH, GB  
**ETSI Deliverable:** GSM 01.78, 02.78, 03.78 and 09.78

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**Company name:** Alcatel  
**Project:** GSM  
**Title:** Communication system for cellular radio telephone network  
**Country of registration:** US  
**Patent no.:** US 5533114  
**Countries applicable:** US  
**ETSI Deliverable:** GSM 01.78, 02.78, 03.78 and 09.78

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**Company name:** Alcatel  
**Project:** GSM  
**Title:** Communication system for cellular radio telephone network  
**Country of registration:** CA  
**Patent no.:** CA 2046579  
**Countries applicable:** CA  
**ETSI Deliverable:** GSM 01.78, 02.78, 03.78 and 09.78

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**Company name:** Alcatel  
**Project:** GSM  
**Title:** Communication system for cellular radio telephone network  
**Country of registration:** JP  
**Patent no.:** JP 4255133  
**Countries applicable:** JP  
**ETSI Deliverable:** GSM 01.78, 02.78, 03.78 and 09.78

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**Company name:** Alcatel  
**Project:** GSM  
**Title:** Communication system for cellular radio telephone network  
**Country of registration:** TW  
**Patent no.:** 57316  
**Countries applicable:** TW  
**ETSI Deliverable:** GSM 01.78, 02.78, 03.78 and 09.78

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**Company name:** Alcatel  
**Project:** GSM  
**Title:** Communication system for cellular radio telephone network  
**Country of registration:** KR  
**Application no.:** 11673/1991  
**Countries applicable:** KR  
**ETSI Deliverable:** GSM 01.78, 02.78, 03.78 and 09.78

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**Company name:** Alcatel  
**Project:** GSM  
**Title:** Communication system for cellular radio telephone network  
**Country of registration:** FR  
**Application no.:** 90-12005  
**Patent no.:** FR 2667476  
**Countries applicable:** FR  
**ETSI Deliverable:** GSM 01.78, 02.78, 03.78 and 09.78

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**Company name:** Alcatel  
**Project:** GSM  
**Title:** Communication transfer in cellular radio telephone network  
**Country of registration:** EPO  
**Patent no.:** EP 438099  
**Countries applicable:** AT, BE, FR, DE, IT, NL, ES, SE, CH, GB  
**ETSI Deliverable:** GSM 03.09

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<b>Company name:</b>	BT
<b>Project:</b>	GSM
<b>Title:</b>	Cellular Radio Systems
<b>Country of registration:</b>	EPO
<b>Application no.:</b>	94915668.1
<b>Countries applicable:</b>	AT, BE, DK, FR, DE, IE, IT, NL, PT, ES, SE, CH
<b>ETSI Deliverable:</b>	GSM 02.67, 02.68, 02.69, 03.67, 03.68, 03.69
<b>Company name:</b>	Nokia
<b>Project:</b>	GSM
<b>Title:</b>	Method for locking to the user's card in a portable radio telephone
<b>Country of registration:</b>	DE
<b>Application no.:</b>	88306554.2
<b>Patent no.:</b>	DE 3889800.4
<b>ETSI Deliverable:</b>	GSM 02.22
<b>Company name:</b>	Alcatel
<b>Project:</b>	GSM
<b>Title:</b>	Energy saving method in a terminal of a mobile radiocommunication network
<b>Country of registration:</b>	JP
<b>Application no.:</b>	513693/96
<b>Countries applicable:</b>	JP
<b>ETSI Deliverable:</b>	GSM 03.41 and 04.12
<b>Company name:</b>	Philips
<b>Project:</b>	GSM
<b>Title:</b>	Multiple-access communications system
<b>Country of registration:</b>	EPO
<b>Application no.:</b>	84201107.4
<b>Patent no.:</b>	EP 0 134 057
<b>Company name:</b>	Matra
<b>Project:</b>	GSM
<b>Title:</b>	Procédé et Installation de Radiotéléphonie Numérique notamment de Radiotéléphonie Cellulaire de Communication avec les Mobiles
<b>Country of registration:</b>	EPO
<b>Application no.:</b>	0472 460 B1
<b>Countries applicable:</b>	BE, DE, DK, ES, GB, IT, LU, NL, SE
<b>ETSI Deliverable:</b>	GSM 04.08, V4.9.0
<b>Company name:</b>	Philips
<b>Project:</b>	GSM
<b>Title:</b>	Verfahren und Steuereinrichtung zur Verteilung der Verkehrsmenge auf verschiedene Organisationskanäle eines Funkübertragungssys.
<b>Country of registration:</b>	EPO
<b>Application no.:</b>	83201766.9
<b>Patent no.:</b>	EP 0 111 971 B1
<b>Company name:</b>	Philips
<b>Project:</b>	GSM
<b>Country of registration:</b>	DE
<b>Patent no.:</b>	DE-PS 34 10 937
<b>Company name:</b>	Philips
<b>Project:</b>	GSM
<b>Title:</b>	Multi-pulse excitation linear-predictive speech coder
<b>Country of registration:</b>	EPO
<b>Application no.:</b>	86200434.8
<b>Patent no.:</b>	EP 0 195 487 B1
<b>Company name:</b>	Philips
<b>Project:</b>	GSM
<b>Title:</b>	Dienstintegriertes Funkübertragungssystem
<b>Country of registration:</b>	EPO
<b>Application no.:</b>	86200724.2
<b>Patent no.:</b>	EP 0 201 126 B1

<b>Company name:</b>	Philips
<b>Project:</b>	GSM
<b>Country of registration:</b>	EPO
<b>Application no.:</b>	87200545.9
<b>Patent no.:</b>	EP 0 240 073 B1
<b>Company name:</b>	BT
<b>Project:</b>	GSM
<b>Title:</b>	Voice Activity Detector
<b>Country of registration:</b>	EPO
<b>Patent no.:</b>	EP335521
<b>Countries applicable:</b>	AT, BE, CH, DE, ES, FR, GB, GR, IT, LU, NL, SE
<b>Notes:</b>	BT have stated that the identified patents may be relevant to the full rate GSM Voice Activity Detector, that the patents claim priority from GB 880 9795 and that the patent was the subject of a BT/ETSI undertaking dated 4th April 1990. It should be noted that the provisions of this undertaking provides for royalty free licences if certain conditions are satisfied by a licensee. BT contact (see note 2).
<b>Company name:</b>	Philips
<b>Project:</b>	GSM
<b>Title:</b>	Verfahren zum Zugreifen auf Übertragungskanäle eines Nachrichtenübertragungssystems
<b>Country of registration:</b>	EPO
<b>Application no.:</b>	82107529.8
<b>Patent no.:</b>	EP 0 073 014 B1
<b>Company name:</b>	Philips
<b>Project:</b>	GSM
<b>Title:</b>	Verfahren und Steuereinrichtung zur Verteilung der Verkehrsmenge auf verschiedene Organisationskanäle eines Funkübertragungssys
<b>Country of registration:</b>	EPO
<b>Application no.:</b>	83201765.1
<b>Patent no.:</b>	EP 0 111 970 B1
<b>Company name:</b>	Philips
<b>Project:</b>	GSM
<b>Title:</b>	Verfahren und Steuereinrichtung zum Auswählen eines Organisationskanals in einer beweglichen Funkstation eines Funkübertragungs
<b>Country of registration:</b>	EPO
<b>Application no.:</b>	83201767.7
<b>Patent no.:</b>	EP 0 111 972 B1
<b>Company name:</b>	Philips
<b>Project:</b>	GSM
<b>Title:</b>	Verfahren zur Überwachung einer zwischen ortsfester Funkstation und beweglicher Funkstation bestehenden Funkverbindung
<b>Country of registration:</b>	EPO
<b>Application no.:</b>	83201768.5
<b>Patent no.:</b>	EP 0 111 973 B1
<b>Company name:</b>	Philips
<b>Project:</b>	GSM
<b>Title:</b>	Procédé pour reconnaître l'utilisation illicite d'une identification
<b>Country of registration:</b>	FR
<b>Application no.:</b>	8504296
<b>Patent no.:</b>	FR 256 184 1
<b>Countries applicable:</b>	FR
<b>Company name:</b>	Philips
<b>Project:</b>	GSM
<b>Title:</b>	TDMA system of transmitting information between a central station and sub-stations
<b>Country of registration:</b>	GB
<b>Application no.:</b>	8207811
<b>Patent no.:</b>	GB 209 55 16
<b>Countries applicable:</b>	GB

<b>Company name:</b>	Alcatel
<b>Project:</b>	GSM
<b>Title:</b>	Energy saving method in a terminal of a mobile radiocommunication network
<b>Country of registration:</b>	AU
<b>Patent no.:</b>	AU 9538092
<b>Countries applicable:</b>	AU
<b>ETSI Deliverable:</b>	GSM 03.41 and 04.12
<b>Company name:</b>	Alcatel
<b>Project:</b>	GSM
<b>Title:</b>	Frame at the TRAU-BTS interface in a cellular radiocommunication network
<b>Country of registration:</b>	AU
<b>Patent no.:</b>	AU 9523340
<b>Countries applicable:</b>	AU
<b>ETSI Deliverable:</b>	GSM 08.61
<b>Company name:</b>	Mitsubishi Electric Corporation
<b>Project:</b>	GSM
<b>Title:</b>	Control Device for Radio Communication Apparatus
<b>Country of registration:</b>	CA
<b>Patent no.:</b>	CA 2 038 645
<b>Countries applicable:</b>	CA
<b>ETSI Deliverable:</b>	GSM 05 series
<b>Notes:</b>	TDMA Timing Control
<b>Company name:</b>	Alcatel
<b>Project:</b>	GSM
<b>Title:</b>	Energy saving method in a terminal of a mobile radiocommunication network
<b>Country of registration:</b>	PCT
<b>Application no.:</b>	WO 96131134
<b>Countries applicable:</b>	AT, BE, FR, DE, IT, NL, ES, SE, GB
<b>ETSI Deliverable:</b>	GSM 03.41 and 04.12
<b>Company name:</b>	Alcatel
<b>Project:</b>	GSM
<b>Title:</b>	Energy saving method in a terminal of a mobile radiocommunication network
<b>Country of registration:</b>	FR
<b>Patent no.:</b>	FR 2726147
<b>Countries applicable:</b>	FR
<b>ETSI Deliverable:</b>	GSM 03.41 and 04.12
<b>Company name:</b>	Alcatel
<b>Project:</b>	GSM
<b>Title:</b>	Energy saving method in a terminal of a mobile radiocommunication network
<b>Country of registration:</b>	FI
<b>Patent no.:</b>	FI 9602541
<b>Countries applicable:</b>	FI
<b>ETSI Deliverable:</b>	GSM 03.41 and 04.12
<b>Company name:</b>	Alcatel
<b>Project:</b>	GSM
<b>Title:</b>	Frame at the TRAU-BTS interface in a cellular radiocommunication network
<b>Country of registration:</b>	IN
<b>Application no.:</b>	271/DEL/95
<b>Countries applicable:</b>	IN
<b>ETSI Deliverable:</b>	GSM 08.61
<b>Company name:</b>	Philips
<b>Project:</b>	GSM
<b>Title:</b>	Digitales Funkübertragungssystem mit variabler Zeitschlitzdauer der Zeitschlitz im Zeitmultiplexrahmen
<b>Country of registration:</b>	EPO
<b>Application no.:</b>	86201267.1
<b>Patent no.:</b>	EP 0 210 698

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**Company name:** Alcatel  
**Project:** GSM  
**Title:** Frame at the TRAU-BTS interface in a cellular radiocommunication network  
**Country of registration:** NZ  
**Patent no.:** NZ 272491  
**Countries applicable:** NZ  
**ETSI Deliverable:** GSM 08.61

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**Company name:** Philips  
**Project:** GSM  
**Title:** Information transmission system  
**Country of registration:** GB  
**Application no.:** 8008510  
**Patent no.:** GB 2063011  
**Countries applicable:** GB

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**Company name:** Alcatel  
**Project:** GSM  
**Title:** Frame at the TRAU-BTS interface in a cellular radiocommunication network  
**Country of registration:** US  
**Application no.:** SerNo 496749  
**Countries applicable:** US  
**ETSI Deliverable:** GSM 08.61

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**Company name:** Alcatel  
**Project:** GSM  
**Title:** Frame at the TRAU-BTS interface in a cellular radiocommunication network  
**Country of registration:** FR  
**Patent no.:** FR 2722353  
**Countries applicable:** FR  
**ETSI Deliverable:** GSM 08.61

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**Company name:** Alcatel  
**Project:** GSM  
**Title:** Frame at the TRAU-BTS interface in a cellular radiocommunication network  
**Country of registration:** FI  
**Patent no.:** FI 9503345  
**Countries applicable:** FI  
**ETSI Deliverable:** GSM 08.61

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**Company name:** Alcatel  
**Project:** GSM  
**Title:** Frame at the TRAU-BTS interface in a cellular radiocommunication network  
**Country of registration:** EPO  
**Patent no.:** EP 692919  
**Countries applicable:** AT, BE, DK, FR, DE, IT, NL, ES, SE, CH, GB  
**ETSI Deliverable:** GSM 08.61

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**Company name:** Philips  
**Project:** GSM  
**Title:** Improvements in or relating to Digital Filters  
**Country of registration:** GB  
**Application no.:** 8104155  
**Patent no.:** GB 2069799  
**Countries applicable:** GB

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**Company name:** Alcatel  
**Project:** GSM  
**Title:** Energy saving method in a terminal of a mobile radiocommunication network  
**Country of registration:** CA  
**Patent no.:** CA 2179662  
**Countries applicable:** CA  
**ETSI Deliverable:** GSM 03.41 and 04.12

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<b>Company name:</b>	Alcatel
<b>Project:</b>	GSM
<b>Title:</b>	Frame at the TRAU-BTS interface in a cellular radiocommunication network
<b>Country of registration:</b>	CN
<b>Application no.:</b>	95-115005
<b>Countries applicable:</b>	CN
<b>ETSI Deliverable:</b>	GSM 08.61
<b>Company name:</b>	Motorola
<b>Project:</b>	GSM
<b>Title:</b>	Selective Call Paging and Priority Signalling System
<b>Country of registration:</b>	DK
<b>Patent no.:</b>	Published 170 085
<b>Countries applicable:</b>	DK
<b>ETSI Deliverable:</b>	GSM 04.08
<b>Company name:</b>	Matra
<b>Project:</b>	GSM
<b>Title:</b>	Procédé et Installation de Radiotéléphonie Numérique notamment de Radiotéléphonie Cellulaire de Communication avec les Mobiles
<b>Country of registration:</b>	FI
<b>Application no.:</b>	91 03 903
<b>Countries applicable:</b>	FI
<b>ETSI Deliverable:</b>	GSM 04.08, V4.9.0
<b>Company name:</b>	Bull CP8
<b>Project:</b>	GSM
<b>Title:</b>	A Method for Certifying the Origin of at Least One Item of Information Stored in the Memory of a First Electronic Device and Tra
<b>Country of registration:</b>	FR
<b>Patent no.:</b>	2 530 053
<b>Countries applicable:</b>	FR
<b>ETSI Deliverable:</b>	GSM 02.09, GSM 03.20 and GSM 11.11
<b>Notes:</b>	CP8 Transac have stated that: all of the listed patents may be Essential to the GSM Standards and be of particular relevance to the subscriber identification module (SIM), as well as the terminals (personal telephone sets). The corresponding foreign patents/patent applications can be readily identified from the listed French patents. Non-exclusive world-wide licences are available on fair, reasonable and non-discriminatory terms and conditions.
<b>Company name:</b>	Bull CP8
<b>Project:</b>	GSM
<b>Title:</b>	SIM Personal Telephone Sets
<b>Country of registration:</b>	FR
<b>Patent no.:</b>	2 566 880
<b>Countries applicable:</b>	FR
<b>ETSI Deliverable:</b>	GSM 02.09, GSM 03.20 and GSM 11.11
<b>Notes:</b>	CP8 Transac have stated that: all of the listed patents may be Essential to the GSM Standards and be of particular relevance to the subscriber identification module (SIM), as well as the terminals (personal telephone sets). The corresponding foreign patents/patent applications can be readily identified from the listed French patents. Non-exclusive world-wide licences are available on fair, reasonable and non-discriminatory terms and conditions.
<b>Company name:</b>	Lupa Finances
<b>Project:</b>	GSM
<b>Title:</b>	Automatic Telephone Number Dialler
<b>Country of registration:</b>	CH
<b>Application no.:</b>	6127/81
<b>Countries applicable:</b>	CH
<b>Notes:</b>	An evaluation report for Lupa Finances' published European patent application, EP 0 075 120 A1 has been prepared by N&M Consultancy Limited, at the request of the ETSI Secretariat, and a copy of this report can be made available to ETSI Members, on REQUEST, from the ETSI Secretariat.

<b>Company name:</b>	Lupa Finances
<b>Project:</b>	GSM
<b>Title:</b>	Automatic Telephone Number Dialler
<b>Country of registration:</b>	EPO
<b>Patent no.:</b>	Published A1-0 075 120
<b>Countries applicable:</b>	AT, BE, DE, FR, GB, IT, LU, NL, SE
<b>Notes:</b>	An evaluation report for Lupa Finances' published European patent application, EP 0 075 120 A1 has been prepared by N&M Consultancy Limited, at the request of the ETSI Secretariat, and a copy of this report can be made available to ETSI Members, on REQUEST, from the ETSI Secretariat.
<b>Company name:</b>	Matra
<b>Project:</b>	GSM
<b>Title:</b>	Procédé de pseudo-synchronisation d'un réseau de communication à multiplexage dans le temps et applications
<b>Country of registration:</b>	FR
<b>Application no.:</b>	89 05 469
<b>Countries applicable:</b>	FR
<b>ETSI Deliverable:</b>	GSM 04.08 and 05.10
<b>Company name:</b>	Matra
<b>Project:</b>	GSM
<b>Title:</b>	Procédé et installation de radiotéléphonie numérique notamment de radiotéléphonie cellulaire de communication avec les mobiles
<b>Country of registration:</b>	FR
<b>Application no.:</b>	90 10 485
<b>ETSI Deliverable:</b>	GSM 04.08, V4.9.0
<b>Company name:</b>	Motorola
<b>Project:</b>	GSM
<b>Title:</b>	Radio Arrangement having Two Radios Sharing Circuitry
<b>Country of registration:</b>	DK
<b>Application no.:</b>	1852/89
<b>Countries applicable:</b>	DK
<b>Notes:</b>	Applies broadly to GSM.
<b>Company name:</b>	Motorola
<b>Project:</b>	GSM
<b>Title:</b>	Digital Speech Coding having improved Vector Excitation Source
<b>Country of registration:</b>	DK
<b>Application no.:</b>	4381/89
<b>Countries applicable:</b>	DK
<b>ETSI Deliverable:</b>	GSM 06.20
<b>Company name:</b>	Motorola
<b>Project:</b>	GSM
<b>Title:</b>	TDM Communication System Efficient Spectrum Utilization
<b>Country of registration:</b>	DK
<b>Application no.:</b>	6161/87
<b>Countries applicable:</b>	DK
<b>ETSI Deliverable:</b>	GSM 05.01
<b>Company name:</b>	Motorola
<b>Project:</b>	GSM
<b>Title:</b>	Cellular Voice & Data Telephone System
<b>Country of registration:</b>	DK
<b>Application no.:</b>	859/86
<b>Countries applicable:</b>	DK
<b>Notes:</b>	Applies broadly to GSM.

<b>Company name:</b>	Motorola
<b>Project:</b>	GSM
<b>Title:</b>	General Purpose Data Control System
<b>Country of registration:</b>	DK
<b>Patent no.:</b>	Published 129 884
<b>Countries applicable:</b>	DK
<b>ETSI Deliverable:</b>	GSM 04.08
<b>Company name:</b>	Bull CP8
<b>Project:</b>	GSM
<b>Title:</b>	A Process and System for Transmission of Signed Messages
<b>Country of registration:</b>	FR
<b>Patent no.:</b>	2 480 539
<b>Countries applicable:</b>	FR
<b>ETSI Deliverable:</b>	GSM 02.09, GSM 03.20 and GSM 11.11
<b>Notes:</b>	CP8 Transac have stated that: all of the listed patents may be Essential to the GSM Standards and be of particular relevance to the subscriber identification module (SIM), as well as the terminals (personal telephone sets). The corresponding foreign patents/patent applications can be readily identified from the listed French patents. Non-exclusive world-wide licences are available on fair, reasonable and non-discriminatory terms and conditions.
<b>Company name:</b>	Motorola
<b>Project:</b>	GSM
<b>Title:</b>	Data Signalling System
<b>Country of registration:</b>	DK
<b>Patent no.:</b>	Published 170 082
<b>Countries applicable:</b>	DK
<b>ETSI Deliverable:</b>	GSM 04.08
<b>Company name:</b>	Bull CP8
<b>Project:</b>	GSM
<b>Title:</b>	A Method and System for Transmission of Confidential Data
<b>Country of registration:</b>	FR
<b>Patent no.:</b>	2 477 344
<b>Countries applicable:</b>	FR
<b>ETSI Deliverable:</b>	GSM 02.09, GSM 03.20 and GSM 11.11
<b>Notes:</b>	CP8 Transac have stated that: all of the listed patents may be Essential to the GSM Standards and be of particular relevance to the subscriber identification module (SIM), as well as the terminals (personal telephone sets). The corresponding foreign patents/patent applications can be readily identified from the listed French patents. Non-exclusive world-wide licences are available on fair, reasonable and non-discriminatory terms and conditions.
<b>Company name:</b>	Motorola
<b>Project:</b>	GSM
<b>Title:</b>	Colocated Cellular Radiotelephone Systems
<b>Country of registration:</b>	EPO
<b>Application no.:</b>	88306565.8
<b>Countries applicable:</b>	EPO
<b>ETSI Deliverable:</b>	ETR 314
<b>Notes:</b>	Applies broadly to GSM.
<b>Company name:</b>	Motorola
<b>Project:</b>	GSM
<b>Title:</b>	Digital Radio Communication System and Two-Way Radio
<b>Country of registration:</b>	EPO
<b>Application no.:</b>	90 906636.7
<b>Countries applicable:</b>	EPO
<b>Notes:</b>	Applies broadly to GSM.
<b>Company name:</b>	Motorola
<b>Project:</b>	GSM
<b>Title:</b>	Selective Call Paging and Priority Signalling System
<b>Country of registration:</b>	EPO
<b>Patent no.:</b>	EP B1 0115 499
<b>Countries applicable:</b>	FR, GB, NL, SE
<b>ETSI Deliverable:</b>	GSM 04.08



<b>Company name:</b>	Motorola
<b>Project:</b>	GSM
<b>Title:</b>	General Purpose Data Control System
<b>Country of registration:</b>	EPO
<b>Patent no.:</b>	EP B1 0115 507
<b>Countries applicable:</b>	CH, DE, FR, GB, NL, LI, SE
<b>ETSI Deliverable:</b>	GSM 04.08
<b>Company name:</b>	Motorola
<b>Project:</b>	GSM
<b>Title:</b>	Two-way personal message with extended coverage
<b>Country of registration:</b>	EPO
<b>Patent no.:</b>	EP B1 0179 898
<b>Countries applicable:</b>	AT, BE, CH, FR, GB, LU, IT, NL, SE
<b>ETSI Deliverable:</b>	GSM 03.02
<b>Company name:</b>	Motorola
<b>Project:</b>	GSM
<b>Title:</b>	Cellular Voice & Data Telephone System
<b>Country of registration:</b>	EPO
<b>Patent no.:</b>	EP B1 0188 554
<b>Countries applicable:</b>	AT, BE, CH, DE, FR, GB, IT, NL, SE
<b>Notes:</b>	Applies broadly to GSM.
<b>Company name:</b>	Motorola
<b>Project:</b>	GSM
<b>Title:</b>	Method of Operating a Radio Trans. or Comm. System including Central Sta. and a plurality of Indi. Remotesta. , a Radio Trans. o
<b>Country of registration:</b>	EPO
<b>Patent no.:</b>	EP B1 0269 643
<b>Countries applicable:</b>	AT, BE, CH, LI, FR, GB, IT, LU, NL, SE
<b>ETSI Deliverable:</b>	GSM 05.08
<b>Company name:</b>	Motorola
<b>Project:</b>	GSM
<b>Title:</b>	Radio Arrangement having Two Radios Sharing Circuitry
<b>Country of registration:</b>	EPO
<b>Patent no.:</b>	EP 0 310 876
<b>Countries applicable:</b>	AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE
<b>Notes:</b>	Applies broadly to GSM.
<b>Company name:</b>	Motorola
<b>Project:</b>	GSM
<b>Title:</b>	Trunked Communication System with Nationwide Roaming Capability
<b>Country of registration:</b>	EPO
<b>Patent no.:</b>	Published A1-0 398 911
<b>Countries applicable:</b>	AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE
<b>Notes:</b>	Applies broadly to GSM.
<b>Company name:</b>	Motorola
<b>Project:</b>	GSM
<b>Title:</b>	Method and Apparatus for Controlling a TDM Communication Device
<b>Country of registration:</b>	EPO
<b>Patent no.:</b>	Published A1-0538546
<b>Countries applicable:</b>	AT, BE, CH, DE, FR, GB, IT, LU, NL, SE
<b>ETSI Deliverable:</b>	GSM 05.01
<b>Company name:</b>	Motorola
<b>Project:</b>	GSM
<b>Title:</b>	Error Protection for Multi-Mode Speech Coders
<b>Country of registration:</b>	EPO
<b>Patent no.:</b>	Published A1-0556354
<b>Countries applicable:</b>	AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE
<b>ETSI Deliverable:</b>	GSM 06.20

<b>Company name:</b>	Motorola
<b>Project:</b>	GSM
<b>Title:</b>	TDMA Radio System employing BPSR Synchronisation for QPSK Signals subject to Random Phase Variation and Multipath Fading
<b>Country of registration:</b>	EPO
<b>Patent no.:</b>	Published A2-0 318 686
<b>Countries applicable:</b>	AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE
<b>Notes:</b>	Applies broadly to GSM.
<b>Company name:</b>	Motorola
<b>Project:</b>	GSM
<b>Title:</b>	Cellular Radio Telephone with Dropped Call Protection
<b>Country of registration:</b>	EPO
<b>Patent no.:</b>	Published A2-0 325 713
<b>Countries applicable:</b>	AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE
<b>ETSI Deliverable:</b>	GSM 04.08
<b>Company name:</b>	Motorola
<b>Project:</b>	GSM
<b>Title:</b>	Method of Operating a Radio Trans. or Comm. System including Central Sta. and a plurality of Indi. Remotesta. , a Radio Trans. o
<b>Country of registration:</b>	DK
<b>Patent no.:</b>	Published 165 273
<b>Countries applicable:</b>	DK
<b>ETSI Deliverable:</b>	GSM 05.08
<b>Company name:</b>	AT&T
<b>Project:</b>	GSM
<b>Title:</b>	Multipulse LPC Speech Processing Arrangement
<b>Country of registration:</b>	US
<b>Patent no.:</b>	4 701 954
<b>Countries applicable:</b>	US
<b>Notes:</b>	AT&T have stated that all of the identified patents have corresponding foreign pending applications but they have elected to provide details of granted patents only -as, and when, patents are granted pursuant to the pending applications, ETSI will be informed. AT&T have stated to ETSI that Licensing enquires should be sent to: AT&T, 10 Independence Blvd, Warren, NJ 07059-6799, USA, marked for the attention of: Herb Winfield (Tel: +1 908 580-5916, Fax: +1 908 580-4082). However, indications are that Lucent Technologies will take responsibility for the licensing of AT&T's patents. No other contact has been provided.
<b>Company name:</b>	AT&T
<b>Project:</b>	GSM
<b>Title:</b>	Digital Speech Encoder
<b>Country of registration:</b>	FR
<b>Patent no.:</b>	8 219 772
<b>Countries applicable:</b>	FR
<b>Notes:</b>	AT&T have stated that all of the identified patents have corresponding foreign pending applications but they have elected to provide details of granted patents only -as, and when, patents are granted pursuant to the pending applications, ETSI will be informed. AT&T have stated to ETSI that Licensing enquires should be sent to: AT&T, 10 Independence Blvd, Warren, NJ 07059-6799, USA, marked for the attention of: Herb Winfield (Tel: +1 908 580-5916, Fax: +1 908 580-4082). However, indications are that Lucent Technologies will take responsibility for the licensing of AT&T's patents. No other contact has been provided.
<b>Company name:</b>	AT&T
<b>Project:</b>	GSM
<b>Title:</b>	Digital Speech Encoder
<b>Country of registration:</b>	DE
<b>Patent no.:</b>	3 244 476
<b>Countries applicable:</b>	DE
<b>Notes:</b>	AT&T have stated that all of the identified patents have corresponding foreign pending applications but they have elected to provide details of granted patents only -as, and when, patents are granted pursuant to the pending applications, ETSI will be informed. AT&T have stated to ETSI that Licensing enquires should be sent to: AT&T, 10 Independence Blvd, Warren, NJ 07059-6799, USA, marked for the attention of: Herb Winfield (Tel: +1 908 580-5916, Fax: +1 908 580-4082). However, indications are that Lucent Technologies will take responsibility for the licensing of AT&T's patents. No other contact has been provided.

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**Company name:** AT&T  
**Project:** GSM  
**Title:** Digital Speech Encoder  
**Country of registration:** GB  
**Patent no.:** 2 110 906  
**Countries applicable:** GB  
**Notes:** AT&T have stated that all of the identified patents have corresponding foreign pending applications but they have elected to provide details of granted patents only -as, and when, patents are granted pursuant to the pending applications, ETSI will be informed. AT&T have stated to ETSI that Licensing enquires should be sent to: AT&T, 10 Independence Blvd, Warren, NJ 07059-6799, USA, marked for the attention of: Herb Winfield (Tel: +1 908 580-5916, Fax: +1 908 580-4082). However, indications are that Lucent Technologies will take responsibility for the licensing of AT&T's patents. No other contact has been provided.

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**Company name:** AT&T  
**Project:** GSM  
**Title:** Digital Speech Encoder  
**Country of registration:** JP  
**Patent no.:** 1 332 758  
**Countries applicable:** JP  
**Notes:** AT&T have stated that all of the identified patents have corresponding foreign pending applications but they have elected to provide details of granted patents only -as, and when, patents are granted pursuant to the pending applications, ETSI will be informed. AT&T have stated to ETSI that Licensing enquires should be sent to: AT&T, 10 Independence Blvd, Warren, NJ 07059-6799, USA, marked for the attention of: Herb Winfield (Tel: +1 908 580-5916, Fax: +1 908 580-4082). However, indications are that Lucent Technologies will take responsibility for the licensing of AT&T's patents. No other contact has been provided.

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**Company name:** AT&T  
**Project:** GSM  
**Title:** Digital Speech Encoder  
**Country of registration:** SE  
**Patent no.:** Published 456 618  
**Countries applicable:** SE  
**Notes:** AT&T have stated that all of the identified patents have corresponding foreign pending applications but they have elected to provide details of granted patents only -as, and when, patents are granted pursuant to the pending applications, ETSI will be informed. AT&T have stated to ETSI that Licensing enquires should be sent to: AT&T, 10 Independence Blvd, Warren, NJ 07059-6799, USA, marked for the attention of: Herb Winfield (Tel: +1 908 580-5916, Fax: +1 908 580-4082). However, indications are that Lucent Technologies will take responsibility for the licensing of AT&T's patents. No other contact has been provided.

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**Company name:** AT&T  
**Project:** GSM  
**Title:** Digital Speech Coder  
**Country of registration:** SE  
**Patent no.:** 4 674 298-6  
**Countries applicable:** SE  
**Notes:** AT&T have stated that all of the identified patents have corresponding foreign pending applications but they have elected to provide details of granted patents only -as, and when, patents are granted pursuant to the pending applications, ETSI will be informed. AT&T have stated to ETSI that Licensing enquires should be sent to: AT&T, 10 Independence Blvd, Warren, NJ 07059-6799, USA, marked for the attention of: Herb Winfield (Tel: +1 908 580-5916, Fax: +1 908 580-4082). However, indications are that Lucent Technologies will take responsibility for the licensing of AT&T's patents. No other contact has been provided.

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**Company name:** AT&T  
**Project:** GSM  
**Title:** Digital Speech Coder  
**Country of registration:** US  
**Patent no.:** RE 32 580  
**Countries applicable:** US  
**Notes:** AT&T have stated that all of the identified patents have corresponding foreign pending applications but they have elected to provide details of granted patents only -as, and when, patents are granted pursuant to the pending applications, ETSI will be informed. AT&T have stated to ETSI that Licensing enquires should be sent to: AT&T, 10 Independence Blvd, Warren, NJ 07059-6799, USA, marked for the attention of: Herb Winfield (Tel: +1 908 580-5916, Fax: +1 908 580-4082). However, indications are that Lucent Technologies will take responsibility for the licensing of AT&T's patents. No other contact has been provided.

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**Company name:** AT&T  
**Project:** GSM  
**Title:** Multipulse LPC Speech Processing Arrangement  
**Country of registration:** BE  
**Patent no.:** 0 175 752  
**Countries applicable:** BE  
**Notes:** AT&T have stated that all of the identified patents have corresponding foreign pending applications but they have elected to provide details of granted patents only -as, and when, patents are granted pursuant to the pending applications, ETSI will be informed. AT&T have stated to ETSI that Licensing enquires should be sent to: AT&T, 10 Independence Blvd, Warren, NJ 07059-6799, USA, marked for the attention of: Herb Winfield (Tel: +1 908 580-5916, Fax: +1 908 580-4082). However, indications are that Lucent Technologies will take responsibility for the licensing of AT&T's patents. No other contact has been provided.

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**Company name:** AT&T  
**Project:** GSM  
**Title:** Multipulse LPC Speech Processing Arrangemen  
**Country of registration:** CA  
**Patent no.:** 1 222 568  
**Countries applicable:** CA  
**Notes:** AT&T have stated that all of the identified patents have corresponding foreign pending applications but they have elected to provide details of granted patents only -as, and when, patents are granted pursuant to the pending applications, ETSI will be informed. AT&T have stated to ETSI that Licensing enquires should be sent to: AT&T, 10 Independence Blvd, Warren, NJ 07059-6799, USA, marked for the attention of: Herb Winfield (Tel: +1 908 580-5916, Fax: +1 908 580-4082). However, indications are that Lucent Technologies will take responsibility for the licensing of AT&T's patents. No other contact has been provided.

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**Company name:** AT&T  
**Project:** GSM  
**Title:** Multipulse LPC Speech Processing Arrangement  
**Country of registration:** FR  
**Patent no.:** 0 175 752  
**Countries applicable:** FR  
**Notes:** AT&T have stated that all of the identified patents have corresponding foreign pending applications but they have elected to provide details of granted patents only -as, and when, patents are granted pursuant to the pending applications, ETSI will be informed. AT&T have stated to ETSI that Licensing enquires should be sent to: AT&T, 10 Independence Blvd, Warren, NJ 07059-6799, USA, marked for the attention of: Herb Winfield (Tel: +1 908 580-5916, Fax: +1 908 580-4082). However, indications are that Lucent Technologies will take responsibility for the licensing of AT&T's patents. No other contact has been provided.

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**Company name:** AT&T  
**Project:** GSM  
**Title:** Multipulse LPC Speech Processing Arrangement  
**Country of registration:** DE  
**Patent no.:** 3 575 624  
**Countries applicable:** DE  
**Notes:** AT&T have stated that all of the identified patents have corresponding foreign pending applications but they have elected to provide details of granted patents only -as, and when, patents are granted pursuant to the pending applications, ETSI will be informed. AT&T have stated to ETSI that Licensing enquires should be sent to: AT&T, 10 Independence Blvd, Warren, NJ 07059-6799, USA, marked for the attention of: Herb Winfield (Tel: +1 908 580-5916, Fax: +1 908 580-4082). However, indications are that Lucent Technologies will take responsibility for the licensing of AT&T's patents. No other contact has been provided.

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**Company name:** Omnipoint  
**Project:** GSM  
**Title:** Multipulse LPC Speech Processing Arrangement  
**Country of registration:** GB  
**Patent no.:** 0 175 752  
**Countries applicable:** GB  
**Notes:** AT&T have stated that all of the identified patents have corresponding foreign pending applications but they have elected to provide details of granted patents only -as, and when, patents are granted pursuant to the pending applications, ETSI will be informed. AT&T have stated to ETSI that Licensing enquires should be sent to: AT&T, 10 Independence Blvd, Warren, NJ 07059-6799, USA, marked for the attention of: Herb Winfield (Tel: +1 908 580-5916, Fax: +1 908 580-4082). However, indications are that Lucent Technologies will take responsibility for the licensing of AT&T's patents. No other contact has been provided.

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**Company name:** Bull CP8  
**Project:** GSM  
**Title:** - CP8 Ref: 2415  
**Country of registration:** FR  
**Patent no.:** 2 483 657  
**ETSI Deliverable:** GSM 02.09, GSM 03.20 and GSM 11.11

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**Company name:** AT&T  
**Project:** GSM  
**Title:** Multipulse LPC Speech Processing Arrangement  
**Country of registration:** SE  
**Patent no.:** 0 175 752  
**Countries applicable:** SE  
**Notes:** AT&T have stated that all of the identified patents have corresponding foreign pending applications but they have elected to provide details of granted patents only -as, and when, patents are granted pursuant to the pending applications, ETSI will be informed. AT&T have stated to ETSI that Licensing enquires should be sent to: AT&T, 10 Independence Blvd, Warren, NJ 07059-6799, USA, marked for the attention of: Herb Winfield (Tel: +1 908 580-5916, Fax: +1 908 580-4082). However, indications are that Lucent Technologies will take responsibility for the licensing of AT&T's patents. No other contact has been provided.

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**Company name:** Motorola  
**Project:** GSM  
**Title:** Selective System Scan for Multizone Radiotelephone Subscriber Units  
**Country of registration:** EPO  
**Patent no.:** Published A2-0 352 786  
**Countries applicable:** AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL  
**Notes:** Applies broadly to GSM.

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**Company name:** AT&T  
**Project:** GSM  
**Title:** Paging Arrangements in a Cellular Mobile Switching System  
**Country of registration:** US  
**Patent no.:** 5 278 890  
**Countries applicable:** US  
**Notes:** AT&T have stated that all of the identified patents have corresponding foreign pending applications but they have elected to provide details of granted patents only -as, and when, patents are granted pursuant to the pending applications, ETSI will be informed. AT&T have stated to ETSI that Licensing enquires should be sent to: AT&T, 10 Independence Blvd, Warren, NJ 07059-6799, USA, marked for the attention of: Herb Winfield (Tel: +1 908 580-5916, Fax: +1 908 580-4082). However, indications are that Lucent Technologies will take responsibility for the licensing of AT&T's patents. No other contact has been provided.

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**Company name:** AT&T  
**Project:** GSM  
**Title:** Signalling Arrangements in a Cellular Mobile Telecomms Switching System  
**Country of registration:** US  
**Patent no.:** 5 396 543  
**Countries applicable:** US  
**Notes:** AT&T have stated that all of the identified patents have corresponding foreign pending applications but they have elected to provide details of granted patents only -as, and when, patents are granted pursuant to the pending applications, ETSI will be informed. AT&T have stated to ETSI that Licensing enquires should be sent to: AT&T, 10 Independence Blvd, Warren, NJ 07059-6799, USA, marked for the attention of: Herb Winfield (Tel: +1 908 580-5916, Fax: +1 908 580-4082). However, indications are that Lucent Technologies will take responsibility for the licensing of AT&T's patents. No other contact has been provided.

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**Company name:** AT&T  
**Project:** GSM  
**Title:** Arrangement for Detecting Fraudulently Identified Mobile Stations in a Cellular Mobile Telecommunications Switching System  
**Country of registration:** US  
**Patent no.:** 5 309 501  
**Countries applicable:** US  
**Notes:** AT&T have stated that all of the identified patents have corresponding foreign pending applications but they have elected to provide details of granted patents only -as, and when, patents are granted pursuant to the pending applications, ETSI will be informed. AT&T have stated to ETSI that Licensing enquires should be sent to: AT&T, 10 Independence Blvd, Warren, NJ 07059-6799, USA, marked for the attention of: Herb Winfield (Tel: +1 908 580-5916, Fax: +1 908 580-4082). However, indications are that Lucent Technologies will take responsibility for the licensing of AT&T's patents. No other contact has been provided.

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**Company name:** AT&T  
**Project:** GSM  
**Title:** Arrangement for Obtaining Authentication Key Parameters in a Cellular Mobile Telecommunications Switching Network  
**Country of registration:** US  
**Patent no.:** 5 329 573  
**Countries applicable:** US  
**Notes:** AT&T have stated that all of the identified patents have corresponding foreign pending applications but they have elected to provide details of granted patents only -as, and when, patents are granted pursuant to the pending applications, ETSI will be informed. AT&T have stated to ETSI that Licensing enquires should be sent to: AT&T, 10 Independence Blvd, Warren, NJ 07059-6799, USA, marked for the attention of: Herb Winfield (Tel: +1 908 580-5916, Fax: +1 908 580-4082). However, indications are that Lucent Technologies will take responsibility for the licensing of AT&T's patents. No other contact has been provided.

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**Company name:** BT  
**Project:** GSM  
**Title:** Voice Activity Detector for Half Rate GSM Coder  
**Country of registration:** IN  
**Application no.:** 890/MAS/94 (filed 13 Sept. 94)  
**ETSI Deliverable:** ETS 300 581-6 and 300 580-7  
**Notes:** BT have stated that: the identified patent applications may be relevant to the half rate GSM voice activity detector described in the following recommendations: ETS 300 581-6 and ETS 300 580-7. The priorities claimed for the identified patent applications are as follows/ European 93307211.8 dated 14th September 1993. UK 9324967.0 dated 6th December 1993 and UK 9412451.8 dated 21st June 1994; and the BT contact is Dr Martin Read, BT Group Legal Services, Intellectual Property Department, 8th floor, Holborn Centre, 120 Holborn, London EC1N 2TE (Tel: +44 171 492 8152; Fax: +44 171 242 0616).

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**Company name:** BT  
**Project:** GSM  
**Title:** Voice Activity Detector for Half Rate GSM Coder  
**Country of registration:** MY  
**Application no.:** PI 9402448 (filed 14 Sept. 94)  
**ETSI Deliverable:** ETS 300 581-6 and 300 580-7  
**Notes:** BT have stated that: the identified patent applications may be relevant to the half rate GSM voice activity detector described in the following recommendations: ETS 300 581-6 and ETS 300 580-7. The priorities claimed for the identified patent applications are as follows/ European 93307211.8 dated 14th September 1993. UK 9324967.0 dated 6th December 1993 and UK 9412451.8 dated 21st June 1994; and the BT contact is Dr Martin Read, BT Group Legal Services, Intellectual Property Department, 8th floor, Holborn Centre, 129 Holborn, London EC1N 2TE (Tel: +44 171 492 8152; Fax: +44 171 242 0616).

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**Company name:** BT  
**Project:** GSM  
**Title:** Voice Activity Detector for Half Rate GSM Coder  
**Country of registration:** US  
**Application no.:** 158 852 (filed 29 Nov. 93)  
**Countries applicable:** US  
**ETSI Deliverable:** ETS 300 581-6 and 300 580-7  
**Notes:** BT have stated that: the identified patent applications may be relevant to the half rate GSM voice activity detector described in the following recommendations: ETS 300 581-6 and ETS 300 580-7. The priorities claimed for the identified patent applications are as follows/ European 93307211.8 dated 14th September 1993. UK 9324967.0 dated 6th December 1993 and UK 9412451.8 dated 21st June 1994; and the BT contact is Dr Martin Read, BT Group Legal Services, Intellectual Property Department, 8th floor, Holborn Centre, 120 Holborn, London EC1N 2TE (Tel: +44 171 492 8152; Fax: +44 171 242 0616).

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**Company name:** BT  
**Project:** GSM  
**Country of registration:** US  
**Application no.:** 232 475 (filed 25 Apr. 94)  
**Notes:** BT have stated that: the identified patent applications may be relevant to the half rate GSM voice activity detector described in the following recommendations: ETS 300 581-6 and ETS 300 580-7. The priorities claimed for the identified patent applications are as follows/ European 93307211.8 dated 14th September 1993. UK 9324967.0 dated 6th December 1993 and UK 9412451.8 dated 21st June 1994; and the BT contact is Dr Martin Read, BT Group Legal Services, Intellectual Property Department, 8th floor, Holborn Centre, 120 Holborn, London EC1N 2TE (Tel: +44 171 492 8152; Fax: +44 171 242 0616).

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**Company name:** Bull CP8  
**Project:** GSM  
**Title:** Data processing System for Protecting the Secrecy of Confidential Information  
**Country of registration:** FR  
**Patent no.:** 2 392 447  
**Countries applicable:** FR  
**ETSI Deliverable:** GSM 02.09, GSM 03.20 and GSM 11.11  
**Notes:** CP8 Transac have stated that: all of the listed patents may be Essential to the GSM Standards and be of particular relevance to the subscriber identification module (SIM), as well as the terminals (personal telephone sets). The corresponding foreign patents/patent applications can be readily identified from the listed French patents. Non-exclusive world-wide licences are available on fair, reasonable and non-discriminatory terms and conditions.

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**Company name:** Bull CP8  
**Project:** GSM  
**Title:** Data Processing System which Protects the Secrecy of Confidential Information  
**Country of registration:** FR  
**Patent no.:** 2 389 284  
**Countries applicable:** FR  
**ETSI Deliverable:** GSM 02.09, GSM 03.20 and GSM 11.11  
**Notes:** CP8 Transac have stated that: all of the listed patents may be Essential to the GSM Standards and be of particular relevance to the subscriber identification module (SIM), as well as the terminals (personal telephone sets). The corresponding foreign patents/patent applications can be readily identified from the listed French patents. Non-exclusive world-wide licences are available on fair, reasonable and non-discriminatory terms and conditions.

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**Company name:** Bull CP8  
**Project:** GSM  
**Title:** SIM Personal Telephone Sets  
**Country of registration:** FR  
**Patent no.:** 2 401 459  
**Countries applicable:** FR  
**ETSI Deliverable:** GSM 02.09, GSM 03.20 and GSM 11.11  
**Notes:** CP8 Transac have stated that: all of the listed patents may be Essential to the GSM Standards and be of particular relevance to the subscriber identification module (SIM), as well as the terminals (personal telephone sets). The corresponding foreign patents/patent applications can be readily identified from the listed French patents. Non-exclusive world-wide licences are available on fair, reasonable and non-discriminatory terms and conditions.

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**Company name:** Bull CP8  
**Project:** GSM  
**Title:** SIM Personal Telephone Sets  
**Country of registration:** FR  
**Patent no.:** 2 460 506  
**Countries applicable:** FR  
**ETSI Deliverable:** GSM 02.09, GSM 03.20 and GSM 11.11  
**Notes:** CP8 Transac have stated that: all of the listed patents may be Essential to the GSM Standards and be of particular relevance to the subscriber identification module (SIM), as well as the terminals (personal telephone sets). The corresponding foreign patents/patent applications can be readily identified from the listed French patents. Non-exclusive world-wide licences are available on fair, reasonable and non-discriminatory terms and conditions.

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**Company name:** Bull CP8  
**Project:** GSM  
**Title:** A Device for Transmitting Signals between two Data Processing Stations  
**Country of registration:** FR  
**Patent no.:** 2 483 713  
**Countries applicable:** FR  
**ETSI Deliverable:** GSM 02.09, GSM 03.20 and GSM 11.11  
**Notes:** CP8 Transac have stated that: all of the listed patents may be Essential to the GSM Standards and be of particular relevance to the subscriber identification module (SIM), as well as the terminals (personal telephone sets). The corresponding foreign patents/patent applications can be readily identified from the listed French patents. Non-exclusive world-wide licences are available on fair, reasonable and non-discriminatory terms and conditions. They will respect the commitment made by Bull S.A. to the International Standards Organisation (ISO), which is mentioned in the introduction to ISO Standard 7816, to grant non-exclusive, non-transferrable, world-wide, irrevocable fully paid up licences, with no right to sub-licence, for the ISO standard, either independently, or in conjunction with other standards (eg GSM Standards), for FR 2 483 713 and its foreign equivalents - the fully paid up cost for this licence is FRF 25,000.00; and the fully paid up licence for FR 2 483 713 and its foreign equivalents covers the use of the ISO standard in the ETSI Standard, but does not extend to other patents, including the patents listed in the schedule.



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**Company name:** AT&T  
**Project:** GSM  
**Title:** Multipulse LPC Speech Processing Arrangement  
**Country of registration:** NL  
**Patent no.:** 0 175 752  
**Countries applicable:** NL  
**Notes:** AT&T have stated that all of the identified patents have corresponding foreign pending applications but they have elected to provide details of granted patents only -as, and when, patents are granted pursuant to the pending applications, ETSI will be informed. AT&T have stated to ETSI that Licensing enquires should be sent to: AT&T, 10 Independence Blvd, Warren, NJ 07059-6799, USA, marked for the attention of: Herb Winfield (Tel: +1 908 580-5916, Fax: +1 908 580-4082). However, indications are that Lucent Technologies will take responsibility for the licensing of AT&T's patents. No other contact has been provided.

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**Company name:** Ericsson  
**Project:** GSM  
**Title:** Transmitter Power Control for Radio Telephone System.  
**Country of registration:** GB  
**Patent no.:** GB 2 233 517  
**Countries applicable:** GB  
**Notes:** Ericsson OMC Ltd

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**Company name:** Motorola  
**Project:** GSM  
**Title:** Digital Speech Coding having improved Vector Excitation Source  
**Country of registration:** NO  
**Application no.:** 893202  
**Countries applicable:** NO  
**ETSI Deliverable:** GSM 06.20.

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**Company name:** Motorola  
**Project:** GSM  
**Title:** Digital radio communication system and two-way radio  
**Country of registration:** NO  
**Application no.:** PCT/US 90/01829  
**Countries applicable:** NO  
**Notes:** Applies broadly to GSM.

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**Company name:** Motorola  
**Project:** GSM  
**Title:** Selective Call Paging and Priority Signalling System  
**Country of registration:** NO  
**Patent no.:** 168 079  
**Countries applicable:** NO  
**ETSI Deliverable:** GSM 04.08

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**Company name:** Motorola  
**Project:** GSM  
**Title:** Data Signalling System  
**Country of registration:** NO  
**Patent no.:** 169 415  
**Countries applicable:** NO  
**ETSI Deliverable:** GSM 04.08

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**Company name:** Motorola  
**Project:** GSM  
**Title:** Cellular Voice & Data Telephone System  
**Country of registration:** NO  
**Patent no.:** 169 810  
**Countries applicable:** NO  
**Notes:** Applies broadly to GSM.

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<b>Company name:</b>	Motorola
<b>Project:</b>	GSM
<b>Title:</b>	General Purpose Data Control System
<b>Country of registration:</b>	NO
<b>Patent no.:</b>	173 799
<b>Countries applicable:</b>	NO
<b>ETSI Deliverable:</b>	GSM 04.08
<b>Company name:</b>	Motorola
<b>Project:</b>	GSM
<b>Title:</b>	General Purpose Data Control System
<b>Country of registration:</b>	GB
<b>Application no.:</b>	9422823.6
<b>Countries applicable:</b>	GB
<b>ETSI Deliverable:</b>	GSM 06.20
<b>Company name:</b>	Motorola
<b>Project:</b>	GSM
<b>Title:</b>	Method for Generating a Spectral Noise Weighting Filter for use in a Speech Coder
<b>Country of registration:</b>	GB
<b>Application no.:</b>	9420077.1
<b>Countries applicable:</b>	GB
<b>ETSI Deliverable:</b>	GSM 06.20
<b>Company name:</b>	Motorola
<b>Project:</b>	GSM
<b>Title:</b>	An Antenna Array for a Cellular RF Communications System.
<b>Country of registration:</b>	GB
<b>Patent no.:</b>	1 573 560
<b>Countries applicable:</b>	GB
<b>Notes:</b>	Applies broadly to GSM.
<b>Company name:</b>	Motorola
<b>Project:</b>	GSM
<b>Title:</b>	Method for Generating a Spectral Noise Weighting Filter for use in a Speech Coder
<b>Country of registration:</b>	SE
<b>Application no.:</b>	9403630-8
<b>Countries applicable:</b>	SE
<b>ETSI Deliverable:</b>	GSM 06.20
<b>Company name:</b>	Motorola
<b>Project:</b>	GSM
<b>Title:</b>	Vector Quantizer Method and Apparatus
<b>Country of registration:</b>	SE
<b>Application no.:</b>	9404086
<b>Countries applicable:</b>	SE
<b>ETSI Deliverable:</b>	GSM 06.20
<b>Company name:</b>	Nokia
<b>Project:</b>	GSM
<b>Country of registration:</b>	GB
<b>Application no.:</b>	GB 9512284
<b>Countries applicable:</b>	GB
<b>Notes:</b>	Nokia Mobile Phones, Finland, have stated that: Nokia's proposal for Enhanced Full Rate (EFR) speech codec for the GSM Standard resulted from co-operation between Nokia, Universite de Sherbrooke (USH) and Siprolab Telecom Inc.; USH own the identified Canadian patent application and all corresponding patents and/or patent applications - not identified by Nokia; Nokia owns the identified UK patent application; and Nokia has the exclusive right to licence any patents owned by USH, or Siprolab which are Essential to the implementation of the EFR codec for the GSM Standard.

<b>Company name:</b>	Motorola
<b>Project:</b>	GSM
<b>Title:</b>	Packet Switched Cellular Telephone System
<b>Country of registration:</b>	EPO
<b>Patent no.:</b>	Published A2-0 332 818
<b>Countries applicable:</b>	AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE
<b>ETSI Deliverable:</b>	GSM 05.08
<b>Company name:</b>	Ericsson
<b>Project:</b>	GSM
<b>Title:</b>	Improvements in, or relating to, Equalisers
<b>Country of registration:</b>	GB
<b>Patent no.:</b>	GB 2 215 567
<b>Countries applicable:</b>	GB
<b>Notes:</b>	Ericsson OMC Ltd
<b>Company name:</b>	Motorola
<b>Project:</b>	GSM
<b>Title:</b>	General Purpose Data Control System
<b>Country of registration:</b>	IT
<b>Patent no.:</b>	1 168 620
<b>Countries applicable:</b>	IT
<b>ETSI Deliverable:</b>	GSM 04.08
<b>Company name:</b>	Ericsson
<b>Project:</b>	GSM
<b>Title:</b>	Power Booster
<b>Country of registration:</b>	GB
<b>Patent no.:</b>	GB 2 251 768
<b>Countries applicable:</b>	GB
<b>Notes:</b>	Ericsson OMC Ltd
<b>Company name:</b>	Philips
<b>Project:</b>	GSM
<b>Country of registration:</b>	DE
<b>Patent no.:</b>	DE-PS 32 09 381
<b>Company name:</b>	Telia AB
<b>Project:</b>	GSM
<b>Title:</b>	Method and Arrangement for increasing capacity in a Mobile Telephone System
<b>Country of registration:</b>	EPO
<b>Application no.:</b>	91903207.8
<b>Patent no.:</b>	0 513 089 B1
<b>Company name:</b>	Telia AB
<b>Project:</b>	GSM
<b>Title:</b>	Method of Location in a Mobile Radio System
<b>Country of registration:</b>	EPO
<b>Application no.:</b>	91916715.5
<b>Patent no.:</b>	0 551 310 B1
<b>Company name:</b>	Telia AB
<b>Project:</b>	GSM
<b>Title:</b>	A Method and Arrangement for Performance Monitoring in a Telecommunications Network
<b>Country of registration:</b>	EPO
<b>Application no.:</b>	92850263.2
<b>Company name:</b>	Telia AB
<b>Project:</b>	GSM
<b>Title:</b>	A Mobile Telecommunication System having aa Auxilliary Routing Arrangement
<b>Country of registration:</b>	EPO
<b>Application no.:</b>	92850286.3

<b>Company name:</b>	Telia AB
<b>Project:</b>	GSM
<b>Title:</b>	Antenna Arrangement Device
<b>Country of registration:</b>	EPO
<b>Application no.:</b>	92850035.2
<b>Company name:</b>	Telia AB
<b>Project:</b>	GSM
<b>Title:</b>	A Method and an Arrangement for dynamic allocation of Multiple Carrier Wave Channels for Multiple access by Frequency Division M
<b>Country of registration:</b>	EPO
<b>Application no.:</b>	94900333.9
<b>Company name:</b>	Telia AB
<b>Project:</b>	GSM
<b>Title:</b>	Arrangement in Mobile Communication System for extending the range between one or more Mobile Units and Base Stations
<b>Country of registration:</b>	EPO
<b>Application no.:</b>	94904363.2
<b>Company name:</b>	Telia AB
<b>Project:</b>	GSM
<b>Title:</b>	Method for locating Mobile Stations in a Digital Telephone Network
<b>Country of registration:</b>	EPO
<b>Application no.:</b>	94850095.4
<b>Company name:</b>	Telia AB
<b>Project:</b>	GSM
<b>Title:</b>	Procedure at Telecommunications Systems which makes possible a reduction of the Digital Processing
<b>Country of registration:</b>	PCT
<b>Application no.:</b>	PCT/SE 95/00850
<b>Company name:</b>	Telia AB
<b>Project:</b>	GSM
<b>Title:</b>	Device for increasing the speed in a Digital Mobile Radio System
<b>Country of registration:</b>	EPO
<b>Application no.:</b>	95850184.3
<b>Company name:</b>	BT
<b>Project:</b>	GSM
<b>Title:</b>	Voice Activity Detector
<b>Country of registration:</b>	EPO
<b>Patent no.:</b>	EP 0 335 521
<b>Countries applicable:</b>	AT, BE, CH, DE, ES, FR, GB, GR, IT, LU, NL, SE
<b>Notes:</b>	BT have stated that the identified patent may be relevant to the full rate GSM voice activity detector, that the patent claims priority from GB 8805795, and that the patent was the subject of a BT/ETSI undertaking dated 4th April 1990. It should be noted that the provisions of this undertaking provides for royalty free licences if certain conditions are satisfied by a licensee.
<b>Company name:</b>	Nokia
<b>Project:</b>	GSM
<b>Country of registration:</b>	CA
<b>Application no.:</b>	010 830
<b>Countries applicable:</b>	CA
<b>Notes:</b>	Nokia Mobile Phones, Finland, have stated that: Nokia's proposal for Enhanced Full Rate (EFR) speech codec for the GSM Standard resulted from co-operation between Nokia, Universite de Sherbrooke (USH) and Siprolab Telecom Inc.; USH own the identified Canadian patent application and all corresponding patents and/or patent applications - not identified by Nokia; Nokia owns the identified UK patent application; and Nokia has the exclusive right to licence any patents owned by USH, or Siprolab which are Essential to the implementation of the EFR codec for the GSM Standard.

<b>Company name:</b>	Motorola
<b>Project:</b>	GSM
<b>Title:</b>	Clock Rate Matching in Independent Networks
<b>Country of registration:</b>	FR
<b>Patent no.:</b>	9202058
<b>Countries applicable:</b>	FR
<b>Notes:</b>	Applies broadly to GSM.
<b>Company name:</b>	Robert Bosch GmbH
<b>Project:</b>	GSM
<b>Title:</b>	Data transmission method especially in GSM communication system
<b>Country of registration:</b>	DE
<b>Application no.:</b>	19544367.5
<b>Countries applicable:</b>	DE
<b>ETSI Deliverable:</b>	GSM 04.53
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Motorola
<b>Project:</b>	GSM
<b>Title:</b>	Handoff Apparatus and Method with Interference Reduction for Radio System
<b>Country of registration:</b>	EPO
<b>Patent no.:</b>	Published A2-0255628
<b>Countries applicable:</b>	AT, BE, CH, DE, ES, FR, GB, IT, LU, NL, SE
<b>ETSI Deliverable:</b>	GSM 05.08
<b>Company name:</b>	Motorola
<b>Project:</b>	GSM
<b>Title:</b>	TDM Communication System Efficient Spectrum Utilization
<b>Country of registration:</b>	EPO
<b>Patent no.:</b>	Published B1 0261 112
<b>Countries applicable:</b>	AT, BE, CH, DE, FR, GB, IT, LU, NL, SE
<b>ETSI Deliverable:</b>	GSM 05.01
<b>Company name:</b>	Motorola
<b>Project:</b>	GSM
<b>Title:</b>	Method and Apparatus for Controlling a TDM Communication Device
<b>Country of registration:</b>	EPO
<b>Patent no.:</b>	Published A2-0412583
<b>Countries applicable:</b>	AT, BE, CH, DE, FR, GB, IT, LU, NL, SE
<b>ETSI Deliverable:</b>	GSM 05.01
<b>Company name:</b>	Motorola
<b>Project:</b>	GSM
<b>Title:</b>	LPC Based Speech Synthesis with Adaptative Pitch Pre-Filter
<b>Country of registration:</b>	EPO
<b>Patent no.:</b>	Published A4-0496829
<b>Countries applicable:</b>	AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE
<b>ETSI Deliverable:</b>	GSM 06.20
<b>Company name:</b>	Motorola
<b>Project:</b>	GSM
<b>Title:</b>	Method and Apparatus for Controlling a TDM Communication Device
<b>Country of registration:</b>	EPO
<b>Patent no.:</b>	Published B1-0261127
<b>Countries applicable:</b>	AT, BE, CH, DE, FR, GB, IT, LI, NL, SE
<b>ETSI Deliverable:</b>	GSM 05.01

<b>Company name:</b>	Motorola
<b>Project:</b>	GSM
<b>Title:</b>	Digital Speech Coding having improved Vector Excitation Source
<b>Country of registration:</b>	EPO
<b>Patent no.:</b>	Published B1-0372008
<b>Countries applicable:</b>	AT, BE, CH, DE, FR, GB, IT, LU, NL, SE
<b>ETSI Deliverable:</b>	GSM 06.20
<b>Company name:</b>	Motorola
<b>Project:</b>	GSM
<b>Title:</b>	Radio Arrangement having Two Radios Sharing Circuitry
<b>Country of registration:</b>	FI
<b>Application no.:</b>	89 2678
<b>Countries applicable:</b>	FI
<b>Notes:</b>	Applies broadly to GSM.
<b>Company name:</b>	Motorola
<b>Project:</b>	GSM
<b>Title:</b>	Digital Speech Coding having improved Vector Excitation Source
<b>Country of registration:</b>	FI
<b>Application no.:</b>	894151
<b>Countries applicable:</b>	FI
<b>ETSI Deliverable:</b>	GSM 06.20
<b>Company name:</b>	Motorola
<b>Project:</b>	GSM
<b>Title:</b>	Digital Radio Communication System and Two-Way Radio
<b>Country of registration:</b>	FI
<b>Application no.:</b>	91 5002
<b>Patent no.:</b>	FI
<b>Notes:</b>	Applies broadly to GSM.
<b>Company name:</b>	Motorola
<b>Project:</b>	GSM
<b>Title:</b>	Cellular Voice & Data Telephone System
<b>Country of registration:</b>	FI
<b>Patent no.:</b>	79 768
<b>Countries applicable:</b>	FI
<b>Notes:</b>	Applies broadly to GSM.
<b>Company name:</b>	Motorola
<b>Project:</b>	GSM
<b>Title:</b>	TDM Communication System Efficient Spectrum Utilization
<b>Country of registration:</b>	FI
<b>Patent no.:</b>	86 122
<b>Countries applicable:</b>	FI
<b>ETSI Deliverable:</b>	GSM 05.01
<b>Company name:</b>	Motorola
<b>Project:</b>	GSM
<b>Title:</b>	TDMA Radio System employing BPSR Synchronisation for QPSK Signals subject to Random Phase Variation and Multipath Fading
<b>Country of registration:</b>	FI
<b>Patent no.:</b>	97 712
<b>Countries applicable:</b>	FI
<b>Notes:</b>	Applies broadly to GSM.
<b>Company name:</b>	Motorola
<b>Project:</b>	GSM
<b>Title:</b>	Radio Arrangement having Two Radios Sharing Circuitry
<b>Country of registration:</b>	NO
<b>Application no.:</b>	892094
<b>Countries applicable:</b>	NO
<b>Notes:</b>	Applies broadly to GSM.

<b>Company name:</b>	Motorola
<b>Project:</b>	GSM
<b>Title:</b>	Selective Call Paging and Priority Signalling System
<b>Country of registration:</b>	DE
<b>Patent no.:</b>	P 3 382 094.5
<b>Countries applicable:</b>	DE
<b>ETSI Deliverable:</b>	GSM 04.08
<b>Company name:</b>	Motorola
<b>Project:</b>	GSM
<b>Title:</b>	TDMA Communication System with Adaptative Equalization
<b>Country of registration:</b>	EPO
<b>Patent no.:</b>	Published A2-0 343 189
<b>Countries applicable:</b>	AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE
<b>Notes:</b>	Applies broadly to GSM.
<b>Company name:</b>	Motorola
<b>Project:</b>	GSM
<b>Title:</b>	Data Signalling System
<b>Country of registration:</b>	IT
<b>Patent no.:</b>	1 168 619
<b>Countries applicable:</b>	IT
<b>ETSI Deliverable:</b>	GSM 04.08
<b>Company name:</b>	Motorola
<b>Project:</b>	GSM
<b>Title:</b>	Method for Generating a Spectral Noise Weighting Filter for use in a Speech Coder
<b>Country of registration:</b>	DE
<b>Application no.:</b>	P 4491015T1
<b>Countries applicable:</b>	DE
<b>ETSI Deliverable:</b>	GSM 06.20
<b>Company name:</b>	Motorola
<b>Project:</b>	GSM
<b>Title:</b>	Two-way personal message with extended coverage
<b>Country of registration:</b>	DE
<b>Patent no.:</b>	P. 3 382 107.0
<b>Countries applicable:</b>	DE
<b>ETSI Deliverable:</b>	GSM 03.02
<b>Company name:</b>	Motorola
<b>Project:</b>	GSM
<b>Title:</b>	An Antenna Array for a Cellular RF Communications System.
<b>Country of registration:</b>	DE
<b>Patent no.:</b>	P. 28 06 178
<b>Countries applicable:</b>	DE
<b>Notes:</b>	Applies broadly to GSM.
<b>Company name:</b>	Motorola
<b>Project:</b>	GSM
<b>Title:</b>	Packet Switched Cellular Telephone System
<b>Country of registration:</b>	FI
<b>Patent no.:</b>	Published 8 901 276
<b>Countries applicable:</b>	FI
<b>ETSI Deliverable:</b>	GSM 05.08
<b>Company name:</b>	Motorola
<b>Project:</b>	GSM
<b>Title:</b>	Method of operating a radio trans. or Comm. system including central Sta. and a plurality of indi. Remotesta. , a radio trans. o
<b>Country of registration:</b>	DE
<b>Patent no.:</b>	P 3 787 788
<b>Countries applicable:</b>	DE
<b>ETSI Deliverable:</b>	GSM 05.08

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**Company name:** Motorola  
**Project:** GSM  
**Title:** Cellular Radio Telephone with Dropped Call Protection  
**Country of registration:** FI  
**Patent no.:** Published 88 5520  
**Countries applicable:** FI  
**ETSI Deliverable:** GSM 04.08

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**Company name:** Motorola  
**Project:** GSM  
**Title:** Vector Quantizer Method and Apparatus  
**Country of registration:** DE  
**Application no.:** P 4492048.2  
**Countries applicable:** DE  
**ETSI Deliverable:** GSM 06.20

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**Company name:** Motorola  
**Project:** GSM  
**Title:** Vector Quantizer Method and Apparatus  
**Country of registration:** FR  
**Patent no.:** Published 2709387  
**Countries applicable:** FR  
**ETSI Deliverable:** GSM 06.20

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**Company name:** Motorola  
**Project:** GSM  
**Title:** Vector Quantizer Method and Apparatus  
**Country of registration:** FR  
**Patent no.:** Published 2709366  
**Countries applicable:** FR  
**ETSI Deliverable:** GSM 06.20

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**Company name:** Motorola  
**Project:** GSM  
**Title:** Vector Quantizer Method and Apparatus  
**Country of registration:** FR  
**Patent no.:** Published 2706064  
**Countries applicable:** FR  
**ETSI Deliverable:** GSM 06.20

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**Company name:** Motorola  
**Project:** GSM  
**Title:** Method for Generating a Spectral Noise Weighting Filter for use in a Speech Coder  
**Country of registration:** FR  
**Patent no.:** Published 9401450  
**Countries applicable:** FR  
**ETSI Deliverable:** GSM 06.20

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**Company name:** Motorola  
**Project:** GSM  
**Title:** TDM Communication System Efficient Spectrum Utilization  
**Country of registration:** NO  
**Application no.:** 874685  
**Countries applicable:** NO  
**ETSI Deliverable:** GSM 05.01

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**Company name:** Motorola  
**Project:** GSM  
**Title:** Local PSTN Interconnect with Remote Signal Link Processing  
**Country of registration:** DE  
**Patent no.:** P 4105884.4  
**Countries applicable:** DE  
**Notes:** Applies broadly to GSM.

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**Company name:** Nokia  
**Project:** GSM  
**Title:** Facsimile Transmission In A Mobile Communication System  
**Country of registration:** EPO  
**Application no.:** EP 96904119  
**Patent no.:** EP 759247  
**Countries applicable:** AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE  
**ETSI Deliverable:** GSM 03.45

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD AND ARRANGEMENT FOR EFFECTIVE TRANSMISSION POWER CONTROL AND/OR HANDOVER OF A MOBILE STATION  
**Country of registration:** NO  
**Application no.:** P960118  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia  
**Project:** GSM  
**Title:** Facsimile Transmission In A Mobile Communication System  
**Country of registration:** PCT  
**Application no.:** PCT/FI96/00136  
**Patent no.:** WO 9627975  
**ETSI Deliverable:** GSM 03.45

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**Company name:** Nokia  
**Project:** GSM  
**Title:** Facsimile Transmission In A Mobile Communication System  
**Country of registration:** AU  
**Application no.:** AU 48334/96  
**Patent no.:** AU 9648334  
**ETSI Deliverable:** GSM 03.45

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**Company name:** Nokia  
**Project:** GSM  
**Title:** Facsimile Transmission In A Mobile Communication System  
**Country of registration:** NO  
**Application no.:** NO 964687  
**Patent no.:** NO 9604687  
**ETSI Deliverable:** GSM 03.45

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**Company name:** Nokia  
**Project:** GSM  
**Title:** Data Transmission System With Sliding-Window Data Flow Control  
**Country of registration:** FI  
**Application no.:** FI 952256  
**Patent no.:** FI 98174  
**Countries applicable:** FI  
**ETSI Deliverable:** GSM 04.22

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**Company name:** Nokia  
**Project:** GSM  
**Title:** Data Transmission System With Sliding-Window Data Flow Control  
**Country of registration:** PCT  
**Application no.:** PCT/FI96/00260  
**Patent no.:** WO 9636154  
**ETSI Deliverable:** GSM 04.22

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** ALGEBRAICH CODEBOOK WITH SIGNAL-SELECTED PULSE AMPLITUDE/POSITION COMBINATIONS FOR FAST CODING OF SPEECH  
**Country of registration:** GB  
**Application no.:** 9602391,6  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia  
**Project:** GSM  
**Title:** Data Transmission System With Sliding-Window Data Flow Control  
**Country of registration:** EPO  
**Application no.:** EP 96913557  
**Patent no.:** EP 788702  
**Countries applicable:** AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE  
**ETSI Deliverable:** GSM 04.22

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** PREDICTIVE SPLIT-MATRIX QUANTIZATION OF SPECTRAL PARAMETERS FOR EFFICIENT CODING OF SPEECH  
**Country of registration:** BR  
**Application no.:** 9604838,7  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia  
**Project:** GSM  
**Title:** Method for locking to the user's card in a portable radio telephone  
**Country of registration:** DK  
**Application no.:** 4219/88  
**Patent no.:** DK 169158  
**ETSI Deliverable:** GSM 02.22

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**Company name:** Nokia  
**Project:** GSM  
**Title:** Method for locking to the user's card in a portable radio telephone  
**Country of registration:** EPO  
**Application no.:** 88306554.2  
**Patent no.:** EP 0301740  
**Countries applicable:** NL, BE, ES, AT, GR, LU, CH, LI  
**ETSI Deliverable:** GSM 02.22

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**Company name:** Nokia  
**Project:** GSM  
**Title:** Method for locking to the user's card in a portable radio telephone  
**Country of registration:** FI  
**Application no.:** 873309  
**Patent no.:** FI 77550  
**ETSI Deliverable:** GSM 02.22

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**Company name:** Nokia  
**Project:** GSM  
**Title:** High-Speed Data Transmission In Mobile Communication Networks  
**Country of registration:** EPO  
**Application no.:** EP 96904117.7  
**Patent no.:** EP 0813779  
**Countries applicable:** AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE  
**ETSI Deliverable:** GSM 04.21

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**Company name:** Nokia  
**Project:** GSM  
**Title:** Method for locking to the user's card in a portable radio telephone  
**Country of registration:** GB  
**Application no.:** 88306554.2  
**Patent no.:** GB 0301740  
**ETSI Deliverable:** GSM 02.22

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**Company name:** Nokia  
**Project:** GSM  
**Title:** High-Speed Data Transmission In Mobile Communication Networks  
**Country of registration:** AU  
**Application no.:** AU 48332/96  
**Patent no.:** AU 9648332  
**ETSI Deliverable:** GSM 04.21

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**Company name:** Nokia  
**Project:** GSM  
**Title:** Method for locking to the user's card in a portable radio telephone  
**Country of registration:** IT  
**Application no.:** 88306554.2  
**Patent no.:** IT 0301740  
**ETSI Deliverable:** GSM 02.22

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**Company name:** Nokia  
**Project:** GSM  
**Title:** Method for locking to the user's card in a portable radio telephone  
**Country of registration:** JP  
**Application no.:** 187037/1988  
**ETSI Deliverable:** GSM 02.22

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**Company name:** Nokia  
**Project:** GSM  
**Title:** Method for locking to the user's card in a portable radio telephone  
**Country of registration:** NO  
**Application no.:** 88.3330  
**Patent no.:** NO 173679  
**ETSI Deliverable:** GSM 02.22

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**Company name:** Nokia  
**Project:** GSM  
**Title:** Method for locking to the user's card in a portable radio telephone  
**Country of registration:** PT  
**Application no.:** 88126  
**Patent no.:** PT 88126  
**ETSI Deliverable:** GSM 02.22

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**Company name:** Nokia  
**Project:** GSM  
**Title:** Method for locking to the user's card in a portable radio telephone  
**Country of registration:** SE  
**Application no.:** 88306554.2  
**Patent no.:** SE 0301740  
**ETSI Deliverable:** GSM 02.22

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**Company name:** Nokia  
**Project:** GSM  
**Title:** Method for locking to the user's card in a portable radio telephone  
**Country of registration:** US  
**Application no.:** 221079  
**Patent no.:** US 4868846  
**ETSI Deliverable:** GSM 02.22

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**Company name:** Nokia  
**Project:** GSM  
**Title:** System for transmitting packet data in digital cellular time division multiple access (TDMA) air interface  
**Country of registration:** AU  
**Application no.:** 17857/95  
**ETSI Deliverable:** GSM 03.64

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** A HIGH-SPEED DATA TRANSMISSION IN A DIGITAL MOBILE COMMUNICATION SYSTEM  
**Country of registration:** FI  
**Application no.:** 944487  
**Patent no.:** 96557  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** A HIGH-SPEED DATA TRANSMISSION IN A DIGITAL MOBILE COMMUNICATION SYSTEM  
**Country of registration:** AU  
**Application no.:** 35239/95  
**Patent no.:** 701594  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** A HIGH-SPEED DATA TRANSMISSION IN A DIGITAL MOBILE COMMUNICATION SYSTEM  
**Country of registration:** CA  
**Application no.:** 2200308  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** A HIGH-SPEED DATA TRANSMISSION IN A DIGITAL MOBILE COMMUNICATION SYSTEM  
**Country of registration:** CN  
**Application no.:** 95195966,2  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** A HIGH-SPEED DATA TRANSMISSION IN A DIGITAL MOBILE COMMUNICATION SYSTEM  
**Country of registration:** EPO  
**Application no.:** 95932031  
**Countries applicable:** AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** A HIGH-SPEED DATA TRANSMISSION IN A DIGITAL MOBILE COMMUNICATION SYSTEM  
**Country of registration:** FI  
**Application no.:** 971269  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia  
**Project:** GSM  
**Title:** Method for locking to the user's card in a portable radio telephone  
**Country of registration:** FR  
**Application no.:** 88306554.2  
**Patent no.:** FR 0301740  
**ETSI Deliverable:** GSM 02.22

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** SYSTEM FOR TRANSMITTING PACKET DATA IN RADIO TELEPHONE TDMA SYSTEM  
**Country of registration:** US  
**Application no.:** 462160  
**Patent no.:** 5729541  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** BT  
**Project:** GSM  
**Title:** Transmission of Digital Signals  
**Country of registration:** EPO  
**Application no.:** 96924979.6  
**Countries applicable:** BE, DK, FI, FR, DE, IE, IT, NL, PT, ES, SE, CH, GB  
**ETSI Deliverable:** GSM 02.53

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD AND ARRANGEMENT FOR EFFECTIVE TRANSMISSION POWER CONTROL AND/OR HANDOVER OF A MOBILE STATION  
**Country of registration:** US  
**Application no.:** 08/591557CPA  
**Patent no.:** 5898925  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD AND ARRANGEMENT FOR HIGH-SPEED DATA TRANSMISSION IN A TDMA MOBILE TELECOMMUNICATIONS SYSTEM  
**Country of registration:** FI  
**Application no.:** 942190  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD AND ARRANGEMENT FOR HIGH-SPEED DATA TRANSMISSION IN A TDMA MOBILE TELECOMMUNICATIONS SYSTEM  
**Country of registration:** AU  
**Application no.:** 2410395  
**Patent no.:** 688903  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD AND ARRANGEMENT FOR HIGH-SPEED DATA TRANSMISSION IN A TDMA MOBILE TELECOMMUNICATIONS SYSTEM  
**Country of registration:** CN  
**Application no.:** 95193002,8  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD AND ARRANGEMENT FOR HIGH-SPEED DATA TRANSMISSION IN A TDMA MOBILE TELECOMMUNICATIONS SYSTEM  
**Country of registration:** EPO  
**Application no.:** 95918001  
**Countries applicable:** AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD AND ARRANGEMENT FOR HIGH-SPEED DATA TRANSMISSION IN A TDMA MOBILE TELECOMMUNICATIONS SYSTEM  
**Country of registration:** JP  
**Application no.:** 7529391  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD AND ARRANGEMENT FOR HIGH-SPEED DATA TRANSMISSION IN A TDMA MOBILE TELECOMMUNICATIONS SYSTEM  
**Country of registration:** NO  
**Application no.:** 964747  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD AND ARRANGEMENT FOR HIGH-SPEED DATA TRANSMISSION IN A TDMA MOBILE TELECOMMUNICATIONS SYSTEM  
**Country of registration:** US  
**Application no.:** 08/737447  
**Patent no.:** 6005857  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** SYSTEM FOR TRANSMITTING PACKET DATA IN RADIO TELEPHONE TDMA SYSTEM  
**Country of registration:** FI  
**Application no.:** 942702  
**Patent no.:** 98427  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** SYSTEM FOR TRANSMITTING PACKET DATA IN RADIO TELEPHONE TDMA SYSTEM  
**Country of registration:** CN  
**Application no.:** 95108589,1  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** SYSTEM FOR TRANSMITTING PACKET DATA IN RADIO TELEPHONE TDMA SYSTEM  
**Country of registration:** EPO  
**Application no.:** 95303825,4  
**Countries applicable:** AT, CH, DE, FR, GB, IT, LI, NL, SE  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia  
**Project:** GSM  
**Title:** Facsimile Transmission In A Mobile Communication System  
**Country of registration:** FI  
**Application no.:** FI 951020  
**Patent no.:** FI 100213  
**Countries applicable:** FI  
**ETSI Deliverable:** GSM 03.45

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** SYSTEM FOR TRANSMITTING PACKET DATA IN RADIO TELEPHONE TDMA SYSTEM  
**Country of registration:** JP  
**Application no.:** 7-140936  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** A HIGH-SPEED DATA TRANSMISSION IN A DIGITAL MOBILE COMMUNICATION SYSTEM  
**Country of registration:** KR  
**Application no.:** 701980  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** NTT  
**Project:** GSM  
**Title:** Sound Synthesizer  
**Country of registration:** GB  
**Patent no.:** 2 131 659  
**Countries applicable:** GB

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**Company name:** NTT  
**Project:** GSM  
**Title:** Speech Coding Method and Apparatus for the same  
**Country of registration:** EPO  
**Application no.:** EP 96202584.7 (Divided out of EP 93401656.9)  
**Countries applicable:** DE, FR, GB, IT

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**Company name:** NTT  
**Project:** GSM  
**Title:** Method and Apparatus for Multiplexed Vector Quantization  
**Country of registration:** US  
**Patent no.:** 4 992 508  
**Countries applicable:** US

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**Company name:** NTT  
**Project:** GSM  
**Title:** Method and Apparatus for Multiplexed Vector Quantization  
**Country of registration:** CA  
**Patent no.:** 1 311 060  
**Countries applicable:** CA

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**Company name:** NTT  
**Project:** GSM  
**Title:** Method and Apparatus for Multiplexed Vector Quantization  
**Country of registration:** EPO  
**Patent no.:** EP 0 314 018  
**Countries applicable:** GB, DE, FR, CH

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**Company name:** NTT  
**Project:** GSM  
**Title:** Method and Apparatus for Multiplexed Vector Quantization  
**Country of registration:** JP  
**Patent no.:** 2 061 805  
**Countries applicable:** JP

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**Company name:** BT  
**Project:** GSM  
**Title:** Voice Activity Detector  
**Country of registration:** PCT  
**Application no.:** PCT/GB89/00247  
**Patent no.:** Published WO 89/08910  
**Countries applicable:** AU, BR, DK, EPO, FI, JP, KR, NO  
**Notes:** BT have stated that the identified patents may be relevant to the full rate GSM Voice Activity Detector, that the patents claim priority from GB 880 9795 and that the patent was the subject of a BT/ETSI undertaking dated 4th April 1990. It should be noted that the provisions of this undertaking provides for royalty free licences if certain conditions are satisfied by a licensee. BT contact (see note 2).



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**Company name:** Nokia  
**Project:** GSM  
**Title:** Packet Radio System And Methods For A Protocol-Independent Routing Of A Data Packet In Packet Radio Networks  
**Country of registration:** FI  
**Application no.:** FI 950116  
**Patent no.:** FI 98586  
**Countries applicable:** FI  
**ETSI Deliverable:** GSM 03.60

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**Company name:** Nokia  
**Project:** GSM  
**Title:** Packet Radio System And Methods For A Protocol-Independent Routing Of A Data Packet In Packet Radio Networks  
**Country of registration:** PCT  
**Application no.:** PCT/FI96/00019  
**Patent no.:** WO 9621983  
**ETSI Deliverable:** GSM 03.60

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**Company name:** Nokia  
**Project:** GSM  
**Title:** Packet Radio System And Methods For A Protocol-Independent Routing Of A Data Packet In Packet Radio Networks  
**Country of registration:** AU  
**Application no.:** AU 43928/96  
**Patent no.:** AU 9643928  
**ETSI Deliverable:** GSM 03.60

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**Company name:** Nokia  
**Project:** GSM  
**Title:** Packet Radio System And Methods For A Protocol-Independent Routing Of A Data Packet In Packet Radio Networks  
**Country of registration:** EPO  
**Application no.:** EP 96900336.7  
**Patent no.:** EP 804844  
**Countries applicable:** AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE  
**ETSI Deliverable:** GSM 03.60

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**Company name:** Nokia  
**Project:** GSM  
**Title:** High-Speed Data Transmission In Mobile Communication Networks  
**Country of registration:** FI  
**Application no.:** FI 951019  
**Patent no.:** FI 100212  
**Countries applicable:** FI  
**ETSI Deliverable:** GSM 04.21

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**Company name:** Nokia  
**Project:** GSM  
**Title:** High-Speed Data Transmission In Mobile Communication Networks  
**Country of registration:** PCT  
**Application no.:** PCT/FI96/00134  
**Patent no.:** WO 9627959  
**ETSI Deliverable:** GSM 04.21

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** SYSTEM FOR TRANSMITTING PACKET DATA IN RADIO TELEPHONE TDMA SYSTEM  
**Country of registration:** IN  
**Application no.:** 658/MAS/95  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** DYNAMIC ALLOCATION OF RADIO CAPACITY IN A TDMA SYSTEM  
**Country of registration:** GB  
**Application no.:** 9600378,5  
**Patent no.:** 2296844  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** HIGH-SPEED DATA TRANSMISSION IN MOBILE COMMUNICATION NETWORKS  
**Country of registration:** CA  
**Application no.:** 2207043  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** HIGH-SPEED DATA TRANSMISSION IN MOBILE COMMUNICATION NETWORKS  
**Country of registration:** CN  
**Application no.:** 95196707.X  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** HIGH-SPEED DATA TRANSMISSION IN MOBILE COMMUNICATION NETWORKS  
**Country of registration:** EPO  
**Application no.:** 95939304,2  
**Countries applicable:** AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** HIGH-SPEED DATA TRANSMISSION IN MOBILE COMMUNICATION NETWORKS  
**Country of registration:** HK  
**Application no.:** 98103081,7  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** HIGH-SPEED DATA TRANSMISSION IN MOBILE COMMUNICATION NETWORKS  
**Country of registration:** JP  
**Application no.:** 8-517347  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** HIGH-SPEED DATA TRANSMISSION IN MOBILE COMMUNICATION NETWORKS  
**Country of registration:** NO  
**Application no.:** 972629  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** HIGH-SPEED DATA TRANSMISSION IN MOBILE COMMUNICATION NETWORKS  
**Country of registration:** SG  
**Application no.:** 9702660-3  
**Patent no.:** 42544  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** HIGH-SPEED DATA TRANSMISSION IN MOBILE COMMUNICATION NETWORKS  
**Country of registration:** US  
**Application no.:** 08/860426  
**Patent no.:** 5966374  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** DYNAMIC ALLOCATION OF RADIO CAPACITY IN A TDMA SYSTEM  
**Country of registration:** FI  
**Application no.:** 950097  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** DYNAMIC ALLOCATION OF RADIO CAPACITY IN A TDMA SYSTEM  
**Country of registration:** AT  
**Application no.:** A1989/95  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** DYNAMIC ALLOCATION OF RADIO CAPACITY IN A TDMA SYSTEM  
**Country of registration:** AU  
**Application no.:** 43927/96  
**Patent no.:** 692036  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** DYNAMIC ALLOCATION OF RADIO CAPACITY IN A TDMA SYSTEM  
**Country of registration:** CN  
**Application no.:** 96191381,9  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** A HIGH-SPEED DATA TRANSMISSION IN A DIGITAL MOBILE COMMUNICATION SYSTEM  
**Country of registration:** HK  
**Application no.:** 98100351,6  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** DYNAMIC ALLOCATION OF RADIO CAPACITY IN A TDMA SYSTEM  
**Country of registration:** FR  
**Application no.:** 9514477  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** A METHOD FOR INDICATING A MULTI-SLOT CHANNEL IN A TDMA RADIO SYSTEM  
**Country of registration:** US  
**Application no.:** 08/836969  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** DYNAMIC ALLOCATION OF RADIO CAPACITY IN A TDMA SYSTEM  
**Country of registration:** IT  
**Application no.:** MI96A000017  
**Patent no.:** 1281596  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** DYNAMIC ALLOCATION OF RADIO CAPACITY IN A TDMA SYSTEM  
**Country of registration:** JP  
**Application no.:** 8-522063  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** DYNAMIC ALLOCATION OF RADIO CAPACITY IN A TDMA SYSTEM  
**Country of registration:** KR  
**Application no.:** 97-704355  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** DYNAMIC ALLOCATION OF RADIO CAPACITY IN A TDMA SYSTEM  
**Country of registration:** NL  
**Application no.:** 1002023  
**Patent no.:** 1002023  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** DYNAMIC ALLOCATION OF RADIO CAPACITY IN A TDMA SYSTEM  
**Country of registration:** SE  
**Application no.:** 9600060-9  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** DYNAMIC ALLOCATION OF RADIO CAPACITY IN A TDMA SYSTEM  
**Country of registration:** US  
**Application no.:** 582915  
**Patent no.:** 5729534  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** PACKET RADIO SYSTEM AND METHODS FOR A PROTOCOL-INDEPENDENT ROUTING OF A DATA PACKET IN PACKET RADIO NETWORKS  
**Country of registration:** FI  
**Application no.:** 950116  
**Patent no.:** 98586  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** PACKET RADIO SYSTEM AND METHODS FOR A PROTOCOL-INDEPENDENT ROUTING OF A DATA PACKET IN PACKET RADIO NETWORKS  
**Country of registration:** AU  
**Application no.:** 43928/96  
**Patent no.:** 702765  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** PACKET RADIO SYSTEM AND METHODS FOR A PROTOCOL-INDEPENDENT ROUTING OF A DATA PACKET IN PACKET RADIO NETWORKS  
**Country of registration:** CA  
**Application no.:** 2209715  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** PACKET RADIO SYSTEM AND METHODS FOR A PROTOCOL-INDEPENDENT ROUTING OF A DATA PACKET IN PACKET RADIO NETWORKS  
**Country of registration:** CN  
**Application no.:** 96191857,.8  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** PACKET RADIO SYSTEM AND METHODS FOR A PROTOCOL-INDEPENDENT ROUTING OF A DATA PACKET IN PACKET RADIO NETWORKS  
**Country of registration:** EPO  
**Application no.:** 96900336,7  
**Countries applicable:** AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

---

**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** PACKET RADIO SYSTEM AND METHODS FOR A PROTOCOL-INDEPENDENT ROUTING OF A DATA PACKET IN PACKET RADIO NETWORKS  
**Country of registration:** HK  
**Application no.:** 98102855,3  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** PACKET RADIO SYSTEM AND METHODS FOR A PROTOCOL-INDEPENDENT ROUTING OF A DATA PACKET IN PACKET RADIO NETWORKS  
**Country of registration:** JP  
**Application no.:** 8-521459  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** DYNAMIC ALLOCATION OF RADIO CAPACITY IN A TDMA SYSTEM  
**Country of registration:** DE  
**Application no.:** 19543845  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** DATA TRANSMISSION METHOD IN A TDMA MOBILE COMMUNICATION SYSTEM  
**Country of registration:** US  
**Application no.:** CPA 08/817331  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD AND ARRANGEMENT FOR EFFECTIVE TRANSMISSION POWER CONTROL AND/OR HANDOVER OF A MOBILE STATION  
**Country of registration:** JP  
**Application no.:** 7-529392  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** A HIGH-SPEED DATA TRANSMISSION IN A DIGITAL MOBILE COMMUNICATION SYSTEM  
**Country of registration:** SG  
**Application no.:** 9701460-9  
**Patent no.:** 39174  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** A HIGH-SPEED DATA TRANSMISSION IN A DIGITAL MOBILE COMMUNICATION SYSTEM  
**Country of registration:** US  
**Application no.:** 08/817963  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** A HIGH-SPEED DATA TRANSMISSION IN A DIGITAL MOBILE COMMUNICATION SYSTEM  
**Country of registration:** US  
**Application no.:** 8676023  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** DATA TRANSMISSION METHOD IN A TDMA MOBILE COMMUNICATION SYSTEM  
**Country of registration:** FI  
**Application no.:** 944488  
**Patent no.:** 96558  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** DATA TRANSMISSION METHOD IN A TDMA MOBILE COMMUNICATION SYSTEM  
**Country of registration:** AU  
**Application no.:** 35240/95  
**Patent no.:** 696802  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** DATA TRANSMISSION METHOD IN A TDMA MOBILE COMMUNICATION SYSTEM  
**Country of registration:** CA  
**Application no.:** 2200307  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** DATA TRANSMISSION METHOD IN A TDMA MOBILE COMMUNICATION SYSTEM  
**Country of registration:** CN  
**Application no.:** 95195967  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** DATA TRANSMISSION METHOD IN A TDMA MOBILE COMMUNICATION SYSTEM  
**Country of registration:** EPO  
**Application no.:** 95932032  
**Countries applicable:** AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** DATA TRANSMISSION METHOD IN A TDMA MOBILE COMMUNICATION SYSTEM  
**Country of registration:** FI  
**Application no.:** 971270  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** DATA TRANSMISSION METHOD IN A TDMA MOBILE COMMUNICATION SYSTEM  
**Country of registration:** HK  
**Application no.:** 98100325,5  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.



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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** DATA TRANSMISSION METHOD IN A TDMA MOBILE COMMUNICATION SYSTEM  
**Country of registration:** JP  
**Application no.:** 8-511421  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** DATA TRANSMISSION METHOD IN A TDMA MOBILE COMMUNICATION SYSTEM  
**Country of registration:** KR  
**Application no.:** 701981  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** HIGH-SPEED DATA TRANSMISSION IN MOBILE COMMUNICATION NETWORKS  
**Country of registration:** AU  
**Application no.:** 41186/96  
**Patent no.:** 699810  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** A METHOD FOR INDICATING A MULTI-SLOT CHANNEL IN A TDMA RADIO SYSTEM  
**Country of registration:** ES  
**Application no.:** P9502237  
**Patent no.:** 9502237  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** A HIGH-SPEED DATA TRANSMISSION IN A DIGITAL MOBILE COMMUNICATION SYSTEM  
**Country of registration:** JP  
**Application no.:** 8-511420  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** A METHOD FOR INDICATING A MULTI-SLOT CHANNEL IN A TDMA RADIO SYSTEM  
**Country of registration:** SE  
**Application no.:** 9504067-1  
**Patent no.:** 9504067-1  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** A METHOD FOR INDICATING A MULTI-SLOT CHANNEL IN A TDMA RADIO SYSTEM  
**Country of registration:** NL  
**Application no.:** 1001744  
**Patent no.:** 1001744  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** A METHOD FOR INDICATING A MULTI-SLOT CHANNEL IN A TDMA RADIO SYSTEM  
**Country of registration:** KR  
**Application no.:** 97-703369  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** A METHOD FOR INDICATING A MULTI-SLOT CHANNEL IN A TDMA RADIO SYSTEM  
**Country of registration:** JP  
**Application no.:** 8-518298  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** DATA TRANSMISSION METHOD IN A TDMA MOBILE COMMUNICATION SYSTEM  
**Country of registration:** SG  
**Application no.:** 9701451-8  
**Patent no.:** 39164  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** A METHOD FOR INDICATING A MULTI-SLOT CHANNEL IN A TDMA RADIO SYSTEM  
**Country of registration:** FR  
**Application no.:** 9513774  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** DATA TRANSMISSION METHOD IN A TDMA MOBILE COMMUNICATION SYSTEM  
**Country of registration:** US  
**Application no.:** 08/817331  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** A METHOD FOR INDICATING A MULTI-SLOT CHANNEL IN A TDMA RADIO SYSTEM  
**Country of registration:** DE  
**Application no.:** 19543253,3  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** A METHOD FOR INDICATING A MULTI-SLOT CHANNEL IN A TDMA RADIO SYSTEM  
**Country of registration:** CN  
**Application no.:** 95197341.X  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** A METHOD FOR INDICATING A MULTI-SLOT CHANNEL IN A TDMA RADIO SYSTEM  
**Country of registration:** AU  
**Application no.:** 39849/95  
**Patent no.:** 695635  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** A METHOD FOR INDICATING A MULTI-SLOT CHANNEL IN A TDMA RADIO SYSTEM  
**Country of registration:** AT  
**Application no.:** A1926/95  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** A METHOD FOR INDICATING A MULTI-SLOT CHANNEL IN A TDMA RADIO SYSTEM  
**Country of registration:** FI  
**Application no.:** 945540  
**Patent no.:** 99076  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** HIGH-SPEED DATA TRANSMISSION IN MOBILE COMMUNICATION NETWORKS  
**Country of registration:** FI  
**Application no.:** 945817  
**Patent no.:** 97187  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** A METHOD FOR INDICATING A MULTI-SLOT CHANNEL IN A TDMA RADIO SYSTEM  
**Country of registration:** GB  
**Application no.:** 9522534,8  
**Patent no.:** 2295525  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Schlumberger Systèmes  
**Project:** GSM  
**Country of registration:** FR  
**Patent no.:** 60/059,382  
**Countries applicable:** US  
**Notes:** SCHLUMBERGER draws the attention of the ETSI to the patent applications and patents listed in the enclosed annex and which may be essential to the GSM standards and GSM standard proposals. SCHLUMBERGER declares that it is prepared to grant irrevocable licenses on fair, reasonable and non-discriminatory terms and conditions under such patent applications and patents in accordance with Annex 6, paragraph 6.1 of the ETSI directives, in respect to the GSM standards and to the extent that said patent applications and patents become essential to said GSM standards, the meaning of the term essential being defined in Annex 6, part 15 of the ETSI directives. The same applies for any patent application which may be filed claiming the priority of one of the above cited patent applications and for any patent which may be granted on the basis of said patent applications. Filing date: 09/19/97.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD AND ARRANGEMENT FOR EFFECTIVE TRANSMISSION POWER CONTROL AND/OR HANDOVER OF A MOBILE STATION  
**Country of registration:** US  
**Application no.:** 08/591557  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Schlumberger Systèmes  
**Project:** GSM  
**Country of registration:** FR  
**Patent no.:** 97/15971  
**Countries applicable:** FR  
**Notes:** SCHLUMBERGER draws the attention of the ETSI to the patent applications and patents listed in the enclosed annex and which may be essential to the GSM standards and GSM standard proposals. SCHLUMBERGER declares that it is prepared to grant irrevocable licenses on fair, reasonable and non-discriminatory terms and conditions under such patent applications and patents in accordance with Annex 6, paragraph 6.1 of the ETSI directives, in respect to the GSM standards and to the extent that said patent applications and patents become essential to said GSM standards, the meaning of the term essential being defined in Annex 6, part 15 of the ETSI directives. The same applies for any patent application which may be filed claiming the priority of one of the above cited patent applications and for any patent which may be granted on the basis of said patent applications. Filing date: 12/16/97.

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**Company name:** Schlumberger Systèmes  
**Project:** GSM  
**Country of registration:** FR  
**Patent no.:** PCT/FR98/02753  
**Countries applicable:** PCT  
**Notes:** SCHLUMBERGER draws the attention of the ETSI to the patent applications and patents listed in the enclosed annex and which may be essential to the GSM standards and GSM standard proposals. SCHLUMBERGER declares that it is prepared to grant irrevocable licenses on fair, reasonable and non-discriminatory terms and conditions under such patent applications and patents in accordance with Annex 6, paragraph 6.1 of the ETSI directives, in respect to the GSM standards and to the extent that said patent applications and patents become essential to said GSM standards, the meaning of the term essential being defined in Annex 6, part 15 of the ETSI directives. The same applies for any patent application which may be filed claiming the priority of one of the above cited patent applications and for any patent which may be granted on the basis of said patent applications. Filing date: 12/16/98.

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**Company name:** Schlumberger Systèmes  
**Project:** GSM  
**Country of registration:** FR  
**Patent no.:** 217/97  
**Countries applicable:** AE  
**Notes:** SCHLUMBERGER draws the attention of the ETSI to the patent applications and patents listed in the enclosed annex and which may be essential to the GSM standards and GSM standard proposals. SCHLUMBERGER declares that it is prepared to grant irrevocable licenses on fair, reasonable and non-discriminatory terms and conditions under such patent applications and patents in accordance with Annex 6, paragraph 6.1 of the ETSI directives, in respect to the GSM standards and to the extent that said patent applications and patents become essential to said GSM standards, the meaning of the term essential being defined in Annex 6, part 15 of the ETSI directives. The same applies for any patent application which may be filed claiming the priority of one of the above cited patent applications and for any patent which may be granted on the basis of said patent applications. Filing date: 10/25/97.

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**Company name:** Schlumberger Systèmes  
**Project:** GSM  
**Country of registration:** FR  
**Patent no.:** PCT/US97/18999  
**Countries applicable:** AU, BR, CN, EPO, JP, KR, MX, SG  
**Notes:** SCHLUMBERGER draws the attention of the ETSI to the patent applications and patents listed in the enclosed annex and which may be essential to the GSM standards and GSM standard proposals. SCHLUMBERGER declares that it is prepared to grant irrevocable licenses on fair, reasonable and non-discriminatory terms and conditions under such patent applications and patents in accordance with Annex 6, paragraph 6.1 of the ETSI directives, in respect to the GSM standards and to the extent that said patent applications and patents become essential to said GSM standards, the meaning of the term essential being defined in Annex 6, part 15 of the ETSI directives. The same applies for any patent application which may be filed claiming the priority of one of the above cited patent applications and for any patent which may be granted on the basis of said patent applications. Filing date: 10/22/97.

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**Company name:** Schlumberger Systèmes  
**Project:** GSM  
**Country of registration:** FR  
**Patent no.:** 2397/MAS/97  
**Countries applicable:** IN  
**Notes:** SCHLUMBERGER draws the attention of the ETSI to the patent applications and patents listed in the enclosed annex and which may be essential to the GSM standards and GSM standard proposals. SCHLUMBERGER declares that it is prepared to grant irrevocable licenses on fair, reasonable and non-discriminatory terms and conditions under such patent applications and patents in accordance with Annex 6, paragraph 6.1 of the ETSI directives, in respect to the GSM standards and to the extent that said patent applications and patents become essential to said GSM standards, the meaning of the term essential being defined in Annex 6, part 15 of the ETSI directives. The same applies for any patent application which may be filed claiming the priority of one of the above cited patent applications and for any patent which may be granted on the basis of said patent applications. Filing date: 10/23/97.

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**Company name:** Schlumberger Systèmes  
**Project:** GSM  
**Country of registration:** FR  
**Patent no.:** PI 9704974  
**Countries applicable:** MY  
**Notes:** SCHLUMBERGER draws the attention of the ETSI to the patent applications and patents listed in the enclosed annex and which may be essential to the GSM standards and GSM standard proposals. SCHLUMBERGER declares that it is prepared to grant irrevocable licenses on fair, reasonable and non-discriminatory terms and conditions under such patent applications and patents in accordance with Annex 6, paragraph 6.1 of the ETSI directives, in respect to the GSM standards and to the extent that said patent applications and patents become essential to said GSM standards, the meaning of the term essential being defined in Annex 6, part 15 of the ETSI directives. The same applies for any patent application which may be filed claiming the priority of one of the above cited patent applications and for any patent which may be granted on the basis of said patent applications. Filing date: 10/22/97.

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**Company name:** Schlumberger Systèmes  
**Project:** GSM  
**Country of registration:** FR  
**Patent no.:** 86115695  
**Countries applicable:** TW  
**Notes:** SCHLUMBERGER draws the attention of the ETSI to the patent applications and patents listed in the enclosed annex and which may be essential to the GSM standards and GSM standard proposals. SCHLUMBERGER declares that it is prepared to grant irrevocable licenses on fair, reasonable and non-discriminatory terms and conditions under such patent applications and patents in accordance with Annex 6, paragraph 6.1 of the ETSI directives, in respect to the GSM standards and to the extent that said patent applications and patents become essential to said GSM standards, the meaning of the term essential being defined in Annex 6, part 15 of the ETSI directives. The same applies for any patent application which may be filed claiming the priority of one of the above cited patent applications and for any patent which may be granted on the basis of said patent applications. Filing date: 10/23/97.

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**Company name:** Schlumberger Systèmes  
**Project:** GSM  
**Country of registration:** FR  
**Patent no.:** 60/029,057  
**Countries applicable:** US  
**Notes:** SCHLUMBERGER draws the attention of the ETSI to the patent applications and patents listed in the enclosed annex and which may be essential to the GSM standards and GSM standard proposals. SCHLUMBERGER declares that it is prepared to grant irrevocable licenses on fair, reasonable and non-discriminatory terms and conditions under such patent applications and patents in accordance with Annex 6, paragraph 6.1 of the ETSI directives, in respect to the GSM standards and to the extent that said patent applications and patents become essential to said GSM standards, the meaning of the term essential being defined in Annex 6, part 15 of the ETSI directives. The same applies for any patent application which may be filed claiming the priority of one of the above cited patent applications and for any patent which may be granted on the basis of said patent applications. Filing date: 10/25/96.

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**Company name:** Schlumberger Systèmes  
**Project:** GSM  
**Country of registration:** FR  
**Patent no.:** 08/957,512  
**Countries applicable:** US  
**Notes:** SCHLUMBERGER draws the attention of the ETSI to the patent applications and patents listed in the enclosed annex and which may be essential to the GSM standards and GSM standard proposals. SCHLUMBERGER declares that it is prepared to grant irrevocable licenses on fair, reasonable and non-discriminatory terms and conditions under such patent applications and patents in accordance with Annex 6, paragraph 6.1 of the ETSI directives, in respect to the GSM standards and to the extent that said patent applications and patents become essential to said GSM standards, the meaning of the term essential being defined in Annex 6, part 15 of the ETSI directives. The same applies for any patent application which may be filed claiming the priority of one of the above cited patent applications and for any patent which may be granted on the basis of said patent applications. Filing date: 10/24/97.

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**Company name:** Schlumberger Systèmes  
**Project:** GSM  
**Country of registration:** FR  
**Patent no.:** 97/9479  
**Countries applicable:** ZA  
**Notes:** SCHLUMBERGER draws the attention of the ETSI to the patent applications and patents listed in the enclosed annex and which may be essential to the GSM standards and GSM standard proposals. SCHLUMBERGER declares that it is prepared to grant irrevocable licenses on fair, reasonable and non-discriminatory terms and conditions under such patent applications and patents in accordance with Annex 6, paragraph 6.1 of the ETSI directives, in respect to the GSM standards and to the extent that said patent applications and patents become essential to said GSM standards, the meaning of the term essential being defined in Annex 6, part 15 of the ETSI directives. The same applies for any patent application which may be filed claiming the priority of one of the above cited patent applications and for any patent which may be granted on the basis of said patent applications. Filing date: 10/23/97.

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**Company name:** Schlumberger Systèmes  
**Project:** GSM  
**Country of registration:** FR  
**Patent no.:** 98 801156.5  
**Countries applicable:** CN  
**Notes:** SCHLUMBERGER draws the attention of the ETSI to the patent applications and patents listed in the enclosed annex and which may be essential to the GSM standards and GSM standard proposals. SCHLUMBERGER declares that it is prepared to grant irrevocable licenses on fair, reasonable and non-discriminatory terms and conditions under such patent applications and patents in accordance with Annex 6, paragraph 6.1 of the ETSI directives, in respect to the GSM standards and to the extent that said patent applications and patents become essential to said GSM standards, the meaning of the term essential being defined in Annex 6, part 15 of the ETSI directives. The same applies for any patent application which may be filed claiming the priority of one of the above cited patent applications and for any patent which may be granted on the basis of said patent applications. Filing date: 09/18/98.

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**Company name:** Schlumberger Systèmes  
**Project:** GSM  
**Country of registration:** FR  
**Patent no.:** 09/147,491  
**Countries applicable:** US  
**Notes:** SCHLUMBERGER draws the attention of the ETSI to the patent applications and patents listed in the enclosed annex and which may be essential to the GSM standards and GSM standard proposals. SCHLUMBERGER declares that it is prepared to grant irrevocable licenses on fair, reasonable and non-discriminatory terms and conditions under such patent applications and patents in accordance with Annex 6, paragraph 6.1 of the ETSI directives, in respect to the GSM standards and to the extent that said patent applications and patents become essential to said GSM standards, the meaning of the term essential being defined in Annex 6, part 15 of the ETSI directives. The same applies for any patent application which may be filed claiming the priority of one of the above cited patent applications and for any patent which may be granted on the basis of said patent applications. Filing date: 07/31/97

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**Company name:** Schlumberger Systèmes  
**Project:** GSM  
**Country of registration:** FR  
**Patent no.:** 11-518753  
**Countries applicable:** JP  
**Notes:** SCHLUMBERGER draws the attention of the ETSI to the patent applications and patents listed in the enclosed annex and which may be essential to the GSM standards and GSM standard proposals. SCHLUMBERGER declares that it is prepared to grant irrevocable licenses on fair, reasonable and non-discriminatory terms and conditions under such patent applications and patents in accordance with Annex 6, paragraph 6.1 of the ETSI directives, in respect to the GSM standards and to the extent that said patent applications and patents become essential to said GSM standards, the meaning of the term essential being defined in Annex 6, part 15 of the ETSI directives. The same applies for any patent application which may be filed claiming the priority of one of the above cited patent applications and for any patent which may be granted on the basis of said patent applications. Filing date: 09/18/98.

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**Company name:** Schlumberger Systèmes  
**Project:** GSM  
**Country of registration:** FR  
**Patent no.:** 10-507676  
**Countries applicable:** JP  
**Notes:** SCHLUMBERGER draws the attention of the ETSI to the patent applications and patents listed in the enclosed annex and which may be essential to the GSM standards and GSM standard proposals. SCHLUMBERGER declares that it is prepared to grant irrevocable licenses on fair, reasonable and non-discriminatory terms and conditions under such patent applications and patents in accordance with Annex 6, paragraph 6.1 of the ETSI directives, in respect to the GSM standards and to the extent that said patent applications and patents become essential to said GSM standards, the meaning of the term essential being defined in Annex 6, part 15 of the ETSI directives. The same applies for any patent application which may be filed claiming the priority of one of the above cited patent applications and for any patent which may be granted on the basis of said patent applications. Filing date: 07/31/97.

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**Company name:** Schlumberger Systèmes  
**Project:** GSM  
**Country of registration:** FR  
**Patent no.:** 09/156,371  
**Countries applicable:** US  
**Notes:** SCHLUMBERGER draws the attention of the ETSI to the patent applications and patents listed in the enclosed annex and which may be essential to the GSM standards and GSM standard proposals. SCHLUMBERGER declares that it is prepared to grant irrevocable licenses on fair, reasonable and non-discriminatory terms and conditions under such patent applications and patents in accordance with Annex 6, paragraph 6.1 of the ETSI directives, in respect to the GSM standards and to the extent that said patent applications and patents become essential to said GSM standards, the meaning of the term essential being defined in Annex 6, part 15 of the ETSI directives. The same applies for any patent application which may be filed claiming the priority of one of the above cited patent applications and for any patent which may be granted on the basis of said patent applications. Filing date: 09/17/98.

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**Company name:** Schlumberger Systèmes  
**Project:** GSM  
**Country of registration:** FR  
**Patent no.:** 60/050,631  
**Countries applicable:** US  
**Notes:** SCHLUMBERGER draws the attention of the ETSI to the patent applications and patents listed in the enclosed annex and which may be essential to the GSM standards and GSM standard proposals. SCHLUMBERGER declares that it is prepared to grant irrevocable licenses on fair, reasonable and non-discriminatory terms and conditions under such patent applications and patents in accordance with Annex 6, paragraph 6.1 of the ETSI directives, in respect to the GSM standards and to the extent that said patent applications and patents become essential to said GSM standards, the meaning of the term essential being defined in Annex 6, part 15 of the ETSI directives. The same applies for any patent application which may be filed claiming the priority of one of the above cited patent applications and for any patent which may be granted on the basis of said patent applications. Filing date: 06/20/97.

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**Company name:** Schlumberger Systèmes  
**Project:** GSM  
**Country of registration:** FR  
**Patent no.:** 08/932,270  
**Countries applicable:** US  
**Notes:** SCHLUMBERGER draws the attention of the ETSI to the patent applications and patents listed in the enclosed annex and which may be essential to the GSM standards and GSM standard proposals. SCHLUMBERGER declares that it is prepared to grant irrevocable licenses on fair, reasonable and non-discriminatory terms and conditions under such patent applications and patents in accordance with Annex 6, paragraph 6.1 of the ETSI directives, in respect to the GSM standards and to the extent that said patent applications and patents become essential to said GSM standards, the meaning of the term essential being defined in Annex 6, part 15 of the ETSI directives. The same applies for any patent application which may be filed claiming the priority of one of the above cited patent applications and for any patent which may be granted on the basis of said patent applications. Filing date: 09/17/97.



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**Company name:** Schlumberger Systèmes  
**Project:** GSM  
**Country of registration:** FR  
**Patent no.:** PCT/US98/17605  
**Countries applicable:** PCT  
**Notes:** SCHLUMBERGER draws the attention of the ETSI to the patent applications and patents listed in the enclosed annex and which may be essential to the GSM standards and GSM standard proposals. SCHLUMBERGER declares that it is prepared to grant irrevocable licenses on fair, reasonable and non-discriminatory terms and conditions under such patent applications and patents in accordance with Annex 6, paragraph 6.1 of the ETSI directives, in respect to the GSM standards and to the extent that said patent applications and patents become essential to said GSM standards, the meaning of the term essential being defined in Annex 6, part 15 of the ETSI directives. The same applies for any patent application which may be filed claiming the priority of one of the above cited patent applications and for any patent which may be granted on the basis of said patent applications. Filing date: 08/25/98.

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**Company name:** Schlumberger Systèmes  
**Project:** GSM  
**Country of registration:** FR  
**Patent no.:** 60/133,300  
**Countries applicable:** US  
**Notes:** SCHLUMBERGER draws the attention of the ETSI to the patent applications and patents listed in the enclosed annex and which may be essential to the GSM standards and GSM standard proposals. SCHLUMBERGER declares that it is prepared to grant irrevocable licenses on fair, reasonable and non-discriminatory terms and conditions under such patent applications and patents in accordance with Annex 6, paragraph 6.1 of the ETSI directives, in respect to the GSM standards and to the extent that said patent applications and patents become essential to said GSM standards, the meaning of the term essential being defined in Annex 6, part 15 of the ETSI directives. The same applies for any patent application which may be filed claiming the priority of one of the above cited patent applications and for any patent which may be granted on the basis of said patent applications. Filing date: 05/10/99.

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**Company name:** Schlumberger Systèmes  
**Project:** GSM  
**Country of registration:** FR  
**Patent no.:** 97/401620.6  
**Countries applicable:** EPO  
**Notes:** SCHLUMBERGER draws the attention of the ETSI to the patent applications and patents listed in the enclosed annex and which may be essential to the GSM standards and GSM standard proposals. SCHLUMBERGER declares that it is prepared to grant irrevocable licenses on fair, reasonable and non-discriminatory terms and conditions under such patent applications and patents in accordance with Annex 6, paragraph 6.1 of the ETSI directives, in respect to the GSM standards and to the extent that said patent applications and patents become essential to said GSM standards, the meaning of the term essential being defined in Annex 6, part 15 of the ETSI directives. The same applies for any patent application which may be filed claiming the priority of one of the above cited patent applications and for any patent which may be granted on the basis of said patent applications. Filing date: 07/07/97

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**Company name:** Schlumberger Systèmes  
**Project:** GSM  
**Country of registration:** FR  
**Patent no.:** 96/08916  
**Countries applicable:** FR  
**Notes:** SCHLUMBERGER draws the attention of the ETSI to the patent applications and patents listed in the enclosed annex and which may be essential to the GSM standards and GSM standard proposals. SCHLUMBERGER declares that it is prepared to grant irrevocable licenses on fair, reasonable and non-discriminatory terms and conditions under such patent applications and patents in accordance with Annex 6, paragraph 6.1 of the ETSI directives, in respect to the GSM standards and to the extent that said patent applications and patents become essential to said GSM standards, the meaning of the term essential being defined in Annex 6, part 15 of the ETSI directives. The same applies for any patent application which may be filed claiming the priority of one of the above cited patent applications and for any patent which may be granted on the basis of said patent applications. Filing date: 15/07/96.

<b>Company name:</b>	Schlumberger Systèmes
<b>Project:</b>	GSM
<b>Country of registration:</b>	FR
<b>Patent no.:</b>	9-189917
<b>Countries applicable:</b>	JP
<b>Notes:</b>	SCHLUMBERGER draws the attention of the ETSI to the patent applications and patents listed in the enclosed annex and which may be essential to the GSM standards and GSM standard proposals. SCHLUMBERGER declares that it is prepared to grant irrevocable licenses on fair, reasonable and non-discriminatory terms and conditions under such patent applications and patents in accordance with Annex 6, paragraph 6.1 of the ETSI directives, in respect to the GSM standards and to the extent that said patent applications and patents become essential to said GSM standards, the meaning of the term essential being defined in Annex 6, part 15 of the ETSI directives. The same applies for any patent application which may be filed claiming the priority of one of the above cited patent applications and for any patent which may be granted on the basis of said patent applications. Filing date: 07/15/97.
<b>Company name:</b>	Schlumberger Systèmes
<b>Project:</b>	GSM
<b>Country of registration:</b>	FR
<b>Patent no.:</b>	9702459-0
<b>Countries applicable:</b>	SG
<b>Notes:</b>	SCHLUMBERGER draws the attention of the ETSI to the patent applications and patents listed in the enclosed annex and which may be essential to the GSM standards and GSM standard proposals. SCHLUMBERGER declares that it is prepared to grant irrevocable licenses on fair, reasonable and non-discriminatory terms and conditions under such patent applications and patents in accordance with Annex 6, paragraph 6.1 of the ETSI directives, in respect to the GSM standards and to the extent that said patent applications and patents become essential to said GSM standards, the meaning of the term essential being defined in Annex 6, part 15 of the ETSI directives. The same applies for any patent application which may be filed claiming the priority of one of the above cited patent applications and for any patent which may be granted on the basis of said patent applications. Filing date: 07/14/97
<b>Company name:</b>	Schlumberger Systèmes
<b>Project:</b>	GSM
<b>Country of registration:</b>	FR
<b>Patent no.:</b>	08/892,813
<b>Countries applicable:</b>	US
<b>Notes:</b>	SCHLUMBERGER draws the attention of the ETSI to the patent applications and patents listed in the enclosed annex and which may be essential to the GSM standards and GSM standard proposals. SCHLUMBERGER declares that it is prepared to grant irrevocable licenses on fair, reasonable and non-discriminatory terms and conditions under such patent applications and patents in accordance with Annex 6, paragraph 6.1 of the ETSI directives, in respect to the GSM standards and to the extent that said patent applications and patents become essential to said GSM standards, the meaning of the term essential being defined in Annex 6, part 15 of the ETSI directives. The same applies for any patent application which may be filed claiming the priority of one of the above cited patent applications and for any patent which may be granted on the basis of said patent applications. Filing date: 07/15/97.
<b>Company name:</b>	NEC Corporation
<b>Project:</b>	GSM
<b>Title:</b>	Digital cellular telecommunications system (Phase 2); Radio subsystem synchronization
<b>Country of registration:</b>	n/a
<b>Patent no.:</b>	0 318 033
<b>Countries applicable:</b>	DE, GB, SE
<b>ETSI Deliverable:</b>	ETS 300 579 (GSM 05.10, V4.9.0)
<b>Notes:</b>	This declaration (the DECLARATION) is given this 4th day of November 1999 by NEC Corporation of Tokyo Japan (the SIGNATORY) to the EUROPEAN TELECOMMUNICATIONS STANDARDS INSTITUTE (ETSI) of Sophia Antipolis France.  The SIGNATORY notifies ETSI that it is the proprietor of the IPR listed in Annex I (the IPR) and informs ETSI that it believes that the IPR may be considered ESSENTIAL to the standards listed in Annex II (the STANDARD).

The SIGNATORY hereby declares that it is prepared to grant irrevocable licenses under the IPR on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, set out in Annex III, in respect of the STANDARD, to the extent that the IPR remains ESSENTIAL.

The construction, validity and performance of this DECLARATION shall be governed by the laws of France.

Signed for and on behalf of the SIGNATORY (Naoki Kyomoto, General Manager IP, Division NEC Corporation).

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**Company name:** NEC Corporation  
**Project:** GSM  
**Title:** Digital cellular telecommunications system (Phase 2+); Mobile Station - Base Station System (MS - BSS) interface; Data Link (DL) layer specification"  
**Country of registration:** n/a  
**Patent no.:** Re. 36,309  
**Countries applicable:** US  
**ETSI Deliverable:** ETS 300 938 (GSM 04.06, V5.2.1)  
**Notes:** This declaration (the DECLARATION) is given this 4th day of November 1999 by NEC Corporation of Tokyo Japan (the SIGNATORY) to the EUROPEAN TELECOMMUNICATIONS STANDARDS INSTITUTE (ETSI) of Sophia Antipolis France.

The SIGNATORY notifies ETSI that it is the proprietor of the IPR listed in Annex I (the IPR) and informs ETSI that it believes that the IPR may be considered ESSENTIAL to the standards listed in Annex II (the STANDARD).

The SIGNATORY hereby declares that it is prepared to grant irrevocable licenses under the IPR on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, set out in Annex III, in respect of the STANDARD, to the extent that the IPR remains ESSENTIAL.

The construction, validity and performance of this DECLARATION shall be governed by the laws of France.

Signed for and on behalf of the SIGNATORY (Naoki Kyomoto, General Manager IP, Division NEC Corporation).

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**Company name:** Gemplus  
**Project:** GSM  
**Title:** Procédé, carte à puce et terminaux pour effectuer des transactions à travers un réseau de télécommunication.  
**Country of registration:** FR  
**Application no.:** FR9714578  
**ETSI Deliverable:** GSM 11.14  
**Notes:** In accordance with the ETSI IPR Policy, Article 4.1, GEMPLUS inform ETSI that, in relation to Work Item No. TDOC ETSI SMG9 (98) 105 "Access to auxiliary devices", with reference to ETSI draft Standard No. GSM 11.14 release 98 and/or with reference to the technical proposal identified as (1) Change Request 11.14 A079 it is the belief of the undersigned that the following IPRs are, or are likely to become essential IPRs in relation that that Standard.

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**Company name:** Schlumberger Systèmes  
**Project:** GSM  
**Country of registration:** FR  
**Patent no.:** 98/946 633.9  
**Countries applicable:** EPO  
**Notes:** SCHLUMBERGER draws the attention of the ETSI to the patent applications and patents listed in the enclosed annex and which may be essential to the GSM standards and GSM standard proposals. SCHLUMBERGER declares that it is prepared to grant irrevocable licenses on fair, reasonable and non-discriminatory terms and conditions under such patent applications and patents in accordance with Annex 6, paragraph 6.1 of the ETSI directives, in respect to the GSM standards and to the extent that said patent applications and patents become essential to said GSM standards, the meaning of the term essential being defined in Annex 6, part 15 of the ETSI directives. The same applies for any patent application which may be filed claiming the priority of one of the above cited patent applications and for any patent which may be granted on the basis of said patent applications. Filing date: 09/18/98.

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**Company name:** Robert Bosch GmbH  
**Project:** GSM  
**Title:** Data transmission method especially in GSM communication system  
**Country of registration:** DE  
**Application no.:** 97119761.1  
**Countries applicable:** CH, DE, DK, ES, FI, FR, GB, IT, NL, SE  
**ETSI Deliverable:** GSM 04.53  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Robert Bosch GmbH  
**Project:** GSM  
**Title:** Data transmission method especially in GSM communication system  
**Country of registration:** DE  
**Application no.:** 19650140.7  
**Countries applicable:** DE  
**ETSI Deliverable:** GSM 04.53  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Robert Bosch GmbH  
**Project:** GSM  
**Title:** Data transmission method especially in GSM communication system  
**Country of registration:** DE  
**Application no.:** 19650141.5  
**Countries applicable:** DE  
**ETSI Deliverable:** GSM 04.53  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Ericsson  
**Project:** GSM  
**Title:** Receiver Gain  
**Country of registration:** GB  
**Patent no.:** GB 2 233 846  
**Countries applicable:** GB  
**Notes:** Ericsson OMC Ltd

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**Company name:** Alcatel  
**Project:** GSM  
**Title:** Communication transfer in cellular radio telephone network  
**Country of registration:** US  
**Patent no.:** US 5289525  
**Countries applicable:** US  
**ETSI Deliverable:** GSM 03.09

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**Company name:** Alcatel  
**Project:** GSM  
**Title:** Communication transfer in cellular radio telephone network  
**Country of registration:** CA  
**Patent no.:** CA 2034411  
**Countries applicable:** CA  
**ETSI Deliverable:** GSM 03.09

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**Company name:** Alcatel  
**Project:** GSM  
**Title:** Communication transfer in cellular radio telephone network  
**Country of registration:** AU  
**Patent no.:** AU 639516  
**Countries applicable:** AU  
**ETSI Deliverable:** GSM 03.09

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**Company name:** Alcatel  
**Project:** GSM  
**Title:** Communication transfer in cellular radio telephone network  
**Country of registration:** NZ  
**Patent no.:** NZ 236814  
**Countries applicable:** NZ  
**ETSI Deliverable:** GSM 03.09

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**Company name:** Alcatel  
**Project:** GSM  
**Title:** Communication transfer in cellular radio telephone network  
**Country of registration:** JP  
**Patent no.:** JP 60 86358  
**Countries applicable:** JP  
**ETSI Deliverable:** GSM 03.09

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**Company name:** Alcatel  
**Project:** GSM  
**Title:** Mobile Radio System with a Repeater  
**Country of registration:** FI  
**Patent no.:** FI 945088  
**Countries applicable:** FI  
**ETSI Deliverable:** GSM 05.05

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**Company name:** Alcatel  
**Project:** GSM  
**Title:** Mobile Radio System with a Repeater  
**Country of registration:** EPO  
**Patent no.:** EP 651524  
**Countries applicable:** FR, DE, IT, SE, GB  
**ETSI Deliverable:** GSM 05.05

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**Company name:** Alcatel  
**Project:** GSM  
**Title:** Mobile Radio System with a Repeater  
**Country of registration:** US  
**Application no.:** SerNo 331341  
**Countries applicable:** US  
**ETSI Deliverable:** GSM 05.05

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**Company name:** Alcatel  
**Project:** GSM  
**Title:** Mobile Radio System with a Repeater  
**Country of registration:** AU  
**Patent no.:** AU 77486  
**Countries applicable:** AU  
**ETSI Deliverable:** GSM 05.05

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**Company name:** Schlumberger Systèmes  
**Project:** GSM  
**Country of registration:** FR  
**Patent no.:** 96/09727  
**Countries applicable:** FR  
**Notes:** SCHLUMBERGER draws the attention of the ETSI to the patent applications and patents listed in the enclosed annex and which may be essential to the GSM standards and GSM standard proposals. SCHLUMBERGER declares that it is prepared to grant irrevocable licenses on fair, reasonable and non-discriminatory terms and conditions under such patent applications and patents in accordance with Annex 6, paragraph 6.1 of the ETSI directives, in respect to the GSM standards and to the extent that said patent applications and patents become essential to said GSM standards, the meaning of the term essential being defined in Annex 6, part 15 of the ETSI directives. The same applies for any patent application which may be filed claiming the priority of one of the above cited patent applications and for any patent which may be granted on the basis of said patent applications. Filing date: 08/01/96.

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**Company name:** Robert Bosch GmbH  
**Project:** GSM  
**Title:** Data transmission method especially in GSM communication system  
**Country of registration:** DE  
**Application no.:** 97119992.2  
**Countries applicable:** CH, DE, DK, ES, FI, FR, GB, IT, NL, SE  
**ETSI Deliverable:** GSM 04.53  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** NEC Corporation  
**Project:** GSM  
**Title:** Speech Parameter Coding Method and Apparatus  
**Country of registration:** US  
**Patent no.:** 5 487 128  
**Countries applicable:** US  
**ETSI Deliverable:** GSM 06.20  
**Notes:** Relevant to ETS 300 581-2 "European digital cellular telecommunications system ; Half rate speech. Part 2 : Half rate speech transcoding"

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**Company name:** Robert Bosch GmbH  
**Project:** GSM  
**Title:** Data transmission method  
**Country of registration:** DE  
**Patent no.:** 3537105  
**Countries applicable:** DE  
**ETSI Deliverable:** GSM 04.06, GSM 05.02, GSM 05.08  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** NEC Corporation  
**Project:** GSM  
**Title:** Method and Apparatus for Encoding Voice Signals  
**Country of registration:** US  
**Patent no.:** 4 716 592  
**Countries applicable:** US  
**ETSI Deliverable:** GSM 06.60  
**Notes:** Relevant to prETS 300 726 "Digital cellular telecommunications system; Enhanced Full Rate (EFR) speech transcoding"

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**Company name:** NEC Corporation  
**Project:** GSM  
**Title:** Speech Coder  
**Country of registration:** EPO  
**Application no.:** 91102440.4  
**Countries applicable:** DE, FR, GB  
**ETSI Deliverable:** GSM 06.20  
**Notes:** Relevant to ETS 300 581-2 "European digital cellular telecommunications system ; Half rate speech. Part 2 : Half rate speech transcoding"

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**Company name:** BT  
**Project:** GSM  
**Title:** Telecommunications System  
**Country of registration:** EPO  
**Patent no.:** 761068  
**Countries applicable:** AT, BE, DK, FR, DE, IT, NL, ES, SE, CH, GB  
**ETSI Deliverable:** GSM 03.93 and GSM 04.93

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**Company name:** BT  
**Project:** GSM  
**Title:** Telecommunications System  
**Country of registration:** CA  
**Application no.:** 2189770  
**Countries applicable:** CA  
**ETSI Deliverable:** GSM 03.93 and GSM 04.93

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**Company name:** BT  
**Project:** GSM  
**Title:** Telecommunications System  
**Country of registration:** CN  
**Application no.:** 95193282.9  
**Countries applicable:** CN  
**ETSI Deliverable:** GSM 03.93 and GSM 04.93

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**Company name:** Alcatel  
**Project:** GSM  
**Title:** Mobile Radio Network Adaptation Center  
**Country of registration:** n/a  
**Application no.:** 2 189 791  
**Countries applicable:** CN  
**ETSI Deliverable:** GSM 03.54, V5.0.0  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the IPRs listed in Annex 1 (the IPRs) and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the GSM Standard (the STANDARD). The SIGNATORY and/or AFFILIATES hereby declare that they are prepared to grant irrevocable licenses under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI Interim IPR Policy, in respect of the STANDARD, to the extent that the IPR remain ESSENTIAL. The construction validity and performance of this DECLARATION shall be governed by the laws of France.

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**Company name:** Alcatel  
**Project:** GSM  
**Title:** Mobile Radio Network Adaptation Center  
**Country of registration:** n/a  
**Application no.:** 743634  
**Countries applicable:** US  
**ETSI Deliverable:** GSM 03.54,V5.0.0  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the IPR listed in Annex 1 (the IPRs) and has informed ETSI that it believes that the IPR may be considered ESSENTIAL to the GSM Standard (the STANDARD). The SIGNATORY and/or AFFILIATES hereby declare that they are prepared to grant irrevocable licenses under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI Interim IPR Policy, in respect of the STANDARD, to the extent that the IPR remain ESSENTIAL. The construction validity and performance of this DECLARATION shall be governed by the laws of France.

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**Company name:** Libertel Groep B.V.  
**Project:** GSM  
**Title:** Number Portability  
**Country of registration:** NL  
**Application no.:** 1006862  
**Patent no.:** 1006862  
**Countries applicable:** NL  
**ETSI Deliverable:** GSM 03.66  
**Notes:** This statement is made May 5th 1999 by R.G.C.M van Basten Batenburg as a representative of Libertel, a Member of ETSI. In accordance with the ETSI IPR Policy, Article 4.1, I hereby inform ETSI that, in relation to Work Item (EURO) MNP, with reference to ETSI draft Standard No. GSM 03.66, it is the belief of the undersigned that the following IPRs are, or are likely to become, Essential IPRs in relation to that standard.

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**Company name:** Libertel Groep B.V.  
**Project:** GSM  
**Country of registration:** PCT  
**Application no.:** PCT/NL98/00480  
**Patent no.:** Pending  
**ETSI Deliverable:** GSM 03.66  
**Notes:** This statement is made May 5th 1999 by R.G.C.M van Basten Batenburg as a representative of Libertel, a Member of ETSI. In accordance with the ETSI IPR Policy, Article 4.1, I hereby inform ETSI that, in relation to Work Item (EURO) MNP, with reference to ETSI draft Standard No. GSM 03.66, it is the belief of the undersigned that the following IPRs are, or are likely to become, Essential IPRs in relation to that standard.

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**Company name:** Sun Microsystems, Inc.  
**Project:** GSM  
**Title:** Coherent Data Structure with Multiple Interaction Contexts for a Smartcard  
**Country of registration:** US  
**Patent no.:** 5802519  
**Countries applicable:** US  
**ETSI Deliverable:** GSM 03.19  
**Notes:** In accordance with the ETSI IPR Policy, Article 4.1, the SIGNATORY hereby informs ETSI that, with reference to ETSI Standard No. GSM 03.19, SUN hereby declares its belief that the above-mentioned patent might be considered ESSENTIAL in respect of the GSM 03.19 specification. SUN further declares that it has granted, and is prepared to continue to grant, licenses under its ESSENTIAL IPR, including the listed patents, on fair, reasonable and non-discriminatory terms and conditions. In making this latter declaration, SUN relies on their continuing belief, also stated in their prior declaration to ETSI with respect to GSM 03.19, that their standard license terms and conditions, as reflected in agreements they have previously entered into with SIM card manufacturers, satisfy this standard.

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**Company name:** Schlumberger Systèmes  
**Project:** GSM  
**Country of registration:** FR  
**Patent no.:** 97/936 723.2  
**Countries applicable:** EPO  
**Notes:** SCHLUMBERGER draws the attention of the ETSI to the patent applications and patents listed in the enclosed annex and which may be essential to the GSM standards and GSM standard proposals. SCHLUMBERGER declares that it is prepared to grant irrevocable licenses on fair, reasonable and non-discriminatory terms and conditions under such patent applications and patents in accordance with Annex 6, paragraph 6.1 of the ETSI directives, in respect to the GSM standards and to the extent that said patent applications and patents become essential to said GSM standards, the meaning of the term essential being defined in Annex 6, part 15 of the ETSI directives. The same applies for any patent application which may be filed claiming the priority of one of the above cited patent applications and for any patent which may be granted on the basis of said patent applications. Filing date: 07/31/97.

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**Company name:** Schlumberger Systèmes  
**Project:** GSM  
**Country of registration:** FR  
**Patent no.:** 96/09728  
**Countries applicable:** FR  
**Notes:** SCHLUMBERGER draws the attention of the ETSI to the patent applications and patents listed in the enclosed annex and which may be essential to the GSM standards and GSM standard proposals. SCHLUMBERGER declares that it is prepared to grant irrevocable licenses on fair, reasonable and non-discriminatory terms and conditions under such patent applications and patents in accordance with Annex 6, paragraph 6.1 of the ETSI directives, in respect to the GSM standards and to the extent that said patent applications and patents become essential to said GSM standards, the meaning of the term essential being defined in Annex 6, part 15 of the ETSI directives. The same applies for any patent application which may be filed claiming the priority of one of the above cited patent applications and for any patent which may be granted on the basis of said patent applications. Filing date: 08/01/96



<b>Company name:</b>	Alcatel
<b>Project:</b>	GSM
<b>Title:</b>	Mobile Radio System with a Repeater
<b>Country of registration:</b>	NZ
<b>Patent no.:</b>	NZ 264804
<b>Countries applicable:</b>	NZ
<b>ETSI Deliverable:</b>	GSM 05.05
<b>Company name:</b>	NTT
<b>Project:</b>	GSM
<b>Title:</b>	Speech Coding and Decoding Methods using Adaptative and Random Codebooks
<b>Country of registration:</b>	EPO
<b>Patent no.:</b>	EP 0 514 912
<b>Countries applicable:</b>	GB, DE, FR
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	Virtual packet channel over cellular network
<b>Country of registration:</b>	EE
<b>Application no.:</b>	P9400344
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	Virtual packet channel over cellular network
<b>Country of registration:</b>	EPO
<b>Application no.:</b>	94306531,8
<b>Countries applicable:</b>	AT, DE, ES, FR, GB, IT, NL, SE
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	Virtual packet channel over cellular network
<b>Country of registration:</b>	JP
<b>Application no.:</b>	6-213046
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	Virtual packet channel over cellular network
<b>Country of registration:</b>	US
<b>Application no.:</b>	301340
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	Virtual packet channel over cellular network
<b>Country of registration:</b>	US
<b>Application no.:</b>	724375
<b>Patent no.:</b>	5802465
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** LOCATION UPDATING FOR A PACKET-SWITCHED DATA SERVICE IN A MOBILE COMMUNICATION SYSTEM  
**Country of registration:** FI  
**Application no.:** 941652  
**Patent no.:** 95984  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** LOCATION UPDATING FOR A PACKET-SWITCHED DATA SERVICE IN A MOBILE COMMUNICATION SYSTEM  
**Country of registration:** AU  
**Application no.:** 2778795  
**Patent no.:** 694242  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** LOCATION UPDATING FOR A PACKET-SWITCHED DATA SERVICE IN A MOBILE COMMUNICATION SYSTEM  
**Country of registration:** CN  
**Application no.:** 95192480.X  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** LOCATION UPDATING FOR A PACKET-SWITCHED DATA SERVICE IN A MOBILE COMMUNICATION SYSTEM  
**Country of registration:** EPO  
**Application no.:** 95915211,7  
**Countries applicable:** AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** LOCATION UPDATING FOR A PACKET-SWITCHED DATA SERVICE IN A MOBILE COMMUNICATION SYSTEM  
**Country of registration:** HK  
**Application no.:** 98112522,5  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** LOCATION UPDATING FOR A PACKET-SWITCHED DATA SERVICE IN A MOBILE COMMUNICATION SYSTEM  
**Country of registration:** JP  
**Application no.:** 7526100  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** LOCATION UPDATING FOR A PACKET-SWITCHED DATA SERVICE IN A MOBILE COMMUNICATION SYSTEM  
**Country of registration:** US  
**Application no.:** 718512  
**Patent no.:** 5889770  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** NEC Corporation  
**Project:** GSM  
**Title:** Speech Coder  
**Country of registration:** US  
**Patent no.:** 5 208 862  
**Countries applicable:** US  
**ETSI Deliverable:** GSM 06.20  
**Notes:** Relevant to ETS 300 581-2 "European digital cellular telecommunications system ; Half rate speech. Part 2 : Half rate speech transcoding"

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** MULTISLOT PACKET TRANSMISSION IN DIGITAL CELLULAR TDMA AIR INTERFACE  
**Country of registration:** AU  
**Application no.:** 17857/95  
**Patent no.:** 708729  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** A multi-fonction telephone apparatus  
**Country of registration:** EPO  
**Application no.:** 91304533,2  
**Patent no.:** 458563  
**Countries applicable:** DE, DK, ES, FR, GB, IT, NL, SE  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** NTT  
**Project:** GSM  
**Title:** Speech Coding Method and Apparatus for the same  
**Country of registration:** EPO  
**Application no.:** EP 93401656.9  
**Countries applicable:** DE, FR, GB, IT

<b>Company name:</b>	NTT
<b>Project:</b>	GSM
<b>Title:</b>	Speech Coding Method and Apparatus for the same
<b>Country of registration:</b>	US
<b>Application no.:</b>	08/082 103
<b>Countries applicable:</b>	US
<b>Company name:</b>	NTT
<b>Project:</b>	GSM
<b>Title:</b>	All-pole Digital Filter
<b>Country of registration:</b>	JP
<b>Patent no.:</b>	JP 63 - 32288
<b>Countries applicable:</b>	JP
<b>Company name:</b>	NTT
<b>Project:</b>	GSM
<b>Title:</b>	Speech Coding-Decoding Method
<b>Country of registration:</b>	JP
<b>Patent no.:</b>	JP3 - 117646
<b>Countries applicable:</b>	JP
<b>Company name:</b>	NTT
<b>Project:</b>	GSM
<b>Title:</b>	Encoding and Decoding Method for Speech Excitation Signals
<b>Country of registration:</b>	JP
<b>Patent no.:</b>	JP3 - 167124
<b>Countries applicable:</b>	JP
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	MULTISLOT PACKET TRANSMISSION IN DIGITAL CELLULAR TDMA AIR INTERFACE
<b>Country of registration:</b>	CN
<b>Application no.:</b>	95105074,5
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	MULTISLOT PACKET TRANSMISSION IN DIGITAL CELLULAR TDMA AIR INTERFACE
<b>Country of registration:</b>	EPO
<b>Application no.:</b>	95303040
<b>Countries applicable:</b>	AT, DE, FR, GB, IT, NL, SE
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	MULTISLOT PACKET TRANSMISSION IN DIGITAL CELLULAR TDMA AIR INTERFACE
<b>Country of registration:</b>	IN
<b>Application no.:</b>	535/MAS/95
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** MULTISLOT PACKET TRANSMISSION IN DIGITAL CELLULAR TDMA AIR INTERFACE  
**Country of registration:** US  
**Application no.:** 09/255325  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD AND ARRANGEMENT FOR EFFECTIVE TRANSMISSION POWER CONTROL AND/OR HANDOVER OF A MOBILE STATION  
**Country of registration:** FI  
**Application no.:** 942191  
**Patent no.:** 96468  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD AND ARRANGEMENT FOR EFFECTIVE TRANSMISSION POWER CONTROL AND/OR HANDOVER OF A MOBILE STATION  
**Country of registration:** AU  
**Application no.:** 24104/95  
**Patent no.:** 682112  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD AND ARRANGEMENT FOR EFFECTIVE TRANSMISSION POWER CONTROL AND/OR HANDOVER OF A MOBILE STATION  
**Country of registration:** CN  
**Application no.:** 95190411,6  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD AND ARRANGEMENT FOR EFFECTIVE TRANSMISSION POWER CONTROL AND/OR HANDOVER OF A MOBILE STATION  
**Country of registration:** EPO  
**Application no.:** 95918002,7  
**Countries applicable:** AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** MULTISLOT PACKET TRANSMISSION IN DIGITAL CELLULAR TDMA AIR INTERFACE  
**Country of registration:** FI  
**Application no.:** 942038  
**Patent no.:** 98426  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

<b>Company name:</b>	NTT
<b>Project:</b>	GSM
<b>Title:</b>	Sound Synthesizer
<b>Country of registration:</b>	FR
<b>Patent no.:</b>	2 766 828
<b>Countries applicable:</b>	FR
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	PACKET RADIO SYSTEM AND METHODS FOR A PROTOCOL-INDEPENDENT ROUTING OF A DATA PACKET IN PACKET RADIO NETWORKS
<b>Country of registration:</b>	NO
<b>Application no.:</b>	973177
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Innovatron
<b>Project:</b>	GSM
<b>Title:</b>	Method and Apparatus for Coupling Smart Cards to Transfer Devices
<b>Country of registration:</b>	FR
<b>Application no.:</b>	78-01876 (24/01/78)
<b>Patent no.:</b>	2 415 378 (16/07/82)
<b>Countries applicable:</b>	FR
<b>Notes:</b>	Code: SCLIF. Expiry date: 24/01/1998. Final grant secured.
<b>Company name:</b>	Innovatron
<b>Project:</b>	GSM
<b>Country of registration:</b>	US
<b>Application no.:</b>	169 114 (17/09/79)
<b>Patent no.:</b>	4 494 464 (13.09.83)
<b>Countries applicable:</b>	US
<b>Notes:</b>	Code SCLIF. Expiry date: 13/09/2000. Final grant secured.
<b>Company name:</b>	Innovatron
<b>Project:</b>	GSM
<b>Country of registration:</b>	DE
<b>Application no.:</b>	29 33 191.7 (20/09/79)
<b>Patent no.:</b>	29 33 191 (06.02.92)
<b>Countries applicable:</b>	DE
<b>Notes:</b>	Code: SCLIF1. Expiry date: 23/01/1999. Final grant secured after opposition.
<b>Company name:</b>	Innovatron
<b>Project:</b>	GSM
<b>Country of registration:</b>	DE
<b>Application no.:</b>	29 54 742.0 (09/03/93)
<b>Countries applicable:</b>	DE
<b>Notes:</b>	Code: SCLIF2. Expiry Date: 23/01/1999. Examination in progress.
<b>Company name:</b>	Innovatron
<b>Project:</b>	GSM
<b>Country of registration:</b>	DE
<b>Application no.:</b>	29 54 748.6 (19.12.94)
<b>Countries applicable:</b>	DE
<b>Notes:</b>	Code: SCLIF3. Expiry date: 23/01/1999. Examination in progress.
<b>Company name:</b>	Innovatron
<b>Project:</b>	GSM
<b>Country of registration:</b>	JP
<b>Application no.:</b>	500 325-54 (1979)
<b>Patent no.:</b>	1 435 657 (25.04.98)
<b>Countries applicable:</b>	JP
<b>Notes:</b>	Code: SCLIF. Expiry date: 23/01/1999. Final grant secured.

<b>Company name:</b>	Innovatron
<b>Project:</b>	GSM
<b>Title:</b>	Method and Apparatus for Coupling Smart Cards to Transfer Devices
<b>Country of registration:</b>	GB
<b>Application no.:</b>	32 293/79 (23/01/79)
<b>Patent no.:</b>	2 036 435 (03.11.82)
<b>Countries applicable:</b>	GB
<b>Notes:</b>	Code: SCLIF. Expiry date: 23/01/1999. Final grant secured.
<b>Company name:</b>	Innovatron
<b>Project:</b>	GSM
<b>Country of registration:</b>	SE
<b>Application no.:</b>	79 07774-9
<b>Patent no.:</b>	431 687
<b>Countries applicable:</b>	SE
<b>Notes:</b>	Code: SCLIF. Expiry date: 23/01/1999. Final grant secured.
<b>Company name:</b>	Motorola
<b>Project:</b>	GSM
<b>Title:</b>	Data Signalling System
<b>Country of registration:</b>	EPO
<b>Patent no.:</b>	EP 0 116 577
<b>Countries applicable:</b>	FR, GB, DE, NL, LI, SE, CH
<b>Company name:</b>	Motorola
<b>Project:</b>	GSM
<b>Title:</b>	Selective System Scan for Multibone Radiotelephone Subscriber Units
<b>Country of registration:</b>	IE
<b>Application no.:</b>	2029/89
<b>Countries applicable:</b>	IE
<b>Company name:</b>	Motorola
<b>Project:</b>	GSM
<b>Title:</b>	Vector Quantizer Method and Apparatus
<b>Country of registration:</b>	GB
<b>Application no.:</b>	9420077.1
<b>Countries applicable:</b>	GB
<b>Company name:</b>	NTT
<b>Project:</b>	GSM
<b>Title:</b>	Sound Synthesizer
<b>Country of registration:</b>	US
<b>Patent no.:</b>	4 393 272
<b>Countries applicable:</b>	US
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	Virtual packet channel over cellular network
<b>Country of registration:</b>	CN
<b>Application no.:</b>	95100020,9
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	Method for locking to the user's card in a portable radio telephone
<b>Country of registration:</b>	DK
<b>Application no.:</b>	884219
<b>Patent no.:</b>	169158
<b>Countries applicable:</b>	DE, FR, GB, IT, SE
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** NEC Corporation  
**Project:** GSM  
**Title:** Speech Parameter Coding Method and Apparatus  
**Country of registration:** EPO  
**Application no.:** 92103179  
**Patent no.:** 0504 627 A2  
**Countries applicable:** DE, FR, GB  
**ETSI Deliverable:** GSM 06.20  
**Notes:** Relevant to ETS 300 581-2 "European digital cellular telecommunications system ; Half rate speech. Part 2 : Half rate speech transcoding"

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** A multi-function telephone apparatus  
**Country of registration:** FI  
**Application no.:** 902504  
**Patent no.:** 88843  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** Method for locking to the user's card in a portable radio telephone  
**Country of registration:** US  
**Application no.:** 221079  
**Patent no.:** 4868846  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** Method for locking to the user's card in a portable radio telephone  
**Country of registration:** PT  
**Application no.:** 88126  
**Patent no.:** 88126  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** Method for locking to the user's card in a portable radio telephone  
**Country of registration:** NO  
**Application no.:** 883330  
**Patent no.:** 173679  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** NTT  
**Project:** GSM  
**Title:** Sound Synthesizer  
**Country of registration:** CA  
**Patent no.:** 1 157 5634  
**Countries applicable:** CA

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** Method for locking to the user's card in a portable radio telephone  
**Country of registration:** EPO  
**Application no.:** 88306554  
**Patent no.:** 301740  
**Countries applicable:** DE, FR, GB, IT, SE  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** NTT  
**Project:** GSM  
**Title:** Sound Synthesizer  
**Country of registration:** DE  
**Patent no.:** 3 037 276  
**Countries applicable:** DE

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** Method for locking to the user's card in a portable radio telephone  
**Country of registration:** FI  
**Application no.:** 873309  
**Patent no.:** 77550  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** NTT  
**Project:** GSM  
**Title:** Speech Coding and Decoding Methods using Adaptative and Random Codebooks  
**Country of registration:** US  
**Patent no.:** 5 396 576  
**Countries applicable:** US

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**Company name:** NTT  
**Project:** GSM  
**Title:** Sound Synthesizer  
**Country of registration:** SE  
**Patent no.:** 8 006 850  
**Countries applicable:** SE

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**Company name:** NTT  
**Project:** GSM  
**Title:** Sound Synthesizer  
**Country of registration:** NL  
**Patent no.:** 8 005 449  
**Countries applicable:** NL

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**Company name:** NTT  
**Project:** GSM  
**Title:** Sound Synthesizer  
**Country of registration:** GB  
**Patent no.:** 2 059 726  
**Countries applicable:** GB

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** Virtual packet channel over cellular network  
**Country of registration:** FI  
**Application no.:** 933894  
**Patent no.:** 97517  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** Method for locking to the user's card in a portable radio telephone  
**Country of registration:** JP  
**Application no.:** 88187037  
**Patent no.:** 2786205  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** Subnetwork dependent convergence protocol for a mobile radio network  
**Country of registration:** NL  
**Application no.:** 1010427  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** Data transmission method in GPRS  
**Country of registration:** US  
**Application no.:** 09/519971  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** Data transmission method in GPRS  
**Country of registration:** NO  
**Application no.:** 20001284  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** Data transmission method in GPRS  
**Country of registration:** JP  
**Application no.:** 2000-512369  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** Data transmission method in GPRS  
**Country of registration:** FI  
**Application no.:** 973681  
**Patent no.:** 106088  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** Data transmission method in GPRS  
**Country of registration:** EPO  
**Application no.:** 98943921.1  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** Data transmission method in GPRS  
**Country of registration:** CN  
**Application no.:** 98809034.1  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** Data transmission method in GPRS  
**Country of registration:** AU  
**Application no.:** 91647/98  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** Improving user data packet transmission in inter SGSN routing area update in GPRS  
**Country of registration:** US  
**Application no.:** 09/638463  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** Improving user data packet transmission in inter SGSN routing area update in GPRS  
**Country of registration:** JP  
**Application no.:** 2000-531967  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** Improving user data packet transmission in inter SGSN routing area update in GPRS  
**Country of registration:** EPO  
**Application no.:** 99903704.7  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** Improving user data packet transmission in inter SGSN routing area update in GPRS  
**Country of registration:** CA  
**Application no.:** 2317448  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** Subnetwork dependent convergence protocol for a mobile radio network  
**Country of registration:** US  
**Application no.:** 09/181518  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	Data transfer in a mobile telephone network
<b>Country of registration:</b>	JP
<b>Application no.:</b>	2000-510263
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	Subnetwork dependent convergence protocol for a mobile radio network
<b>Country of registration:</b>	RU
<b>Application no.:</b>	2000113226
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	A method for enhancing data transmission
<b>Country of registration:</b>	CN
<b>Application no.:</b>	97193857.1
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	Subnetwork dependent convergence protocol for a mobile radio network
<b>Country of registration:</b>	JP
<b>Application no.:</b>	2000-518526
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	Subnetwork dependent convergence protocol for a mobile radio network
<b>Country of registration:</b>	IT
<b>Application no.:</b>	M198A002311
<b>Patent no.:</b>	1303264
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** Subnetwork dependent convergence protocol for a mobile radio network  
**Country of registration:** GB  
**Application no.:** 9823844.7  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** Subnetwork dependent convergence protocol for a mobile radio network  
**Country of registration:** FR  
**Application no.:** 9813451  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** Subnetwork dependent convergence protocol for a mobile radio network  
**Country of registration:** FI  
**Application no.:** 974094  
**Patent no.:** 105760  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** Subnetwork dependent convergence protocol for a mobile radio network  
**Country of registration:** DE  
**Application no.:** 19847679.5  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** Subnetwork dependent convergence protocol for a mobile radio network  
**Country of registration:** CN  
**Application no.:** 98810820.8  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** Subnetwork dependent convergence protocol for a mobile radio network  
**Country of registration:** AU  
**Application no.:** 94433/98  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** Subnetwork dependent convergence protocol for a mobile radio network  
**Country of registration:** AT  
**Application no.:** A1775/98  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** Data transfer in a mobile telephone network  
**Country of registration:** US  
**Application no.:** 09/134615  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** Data transfer in a mobile telephone network  
**Country of registration:** SE  
**Application no.:** 9802745-1  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** Data transfer in a mobile telephone network  
**Country of registration:** RU  
**Application no.:** 2000106559  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** A method to evaluate the hangover period in a speech decoder in discontinuous transmission, and a speech encoder and the transceiver  
**Country of registration:** AU  
**Application no.:** 62260/96  
**Patent no.:** 701220  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** Subnetwork dependent convergence protocol for a mobile radio network  
**Country of registration:** SE  
**Application no.:** 9803644-5  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** Guaranteed service selection  
**Country of registration:** CN  
**Application no.:** 99800032.9  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** A method to evaluate the hangover period in a speech decoder in discontinuous transmission, and a speech encoder and the transceiver  
**Country of registration:** AT  
**Application no.:** A935/96  
**Patent no.:** 405346  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** Method for indicating power consumption in a packet switched communication system  
**Country of registration:** PCT  
**Application no.:** PCT/FI99/00702  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.



<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	Method for indicating power consumption in a packet switched communication system
<b>Country of registration:</b>	US
<b>Application no.:</b>	09/383481
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	Method for indicating power consumption in a packet switched communication system
<b>Country of registration:</b>	JP
<b>Application no.:</b>	2000-571107
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	Method for indicating power consumption in a packet switched communication system
<b>Country of registration:</b>	FI
<b>Application no.:</b>	981838
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	Method for indicating power consumption in a packet switched communication system
<b>Country of registration:</b>	EPO
<b>Application no.:</b>	99940220.9
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	Incremental redundancy between coded blocks with different sizes
<b>Country of registration:</b>	PCT
<b>Application no.:</b>	PCT/FI00/00755
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** Incremental redundancy between coded blocks with different sizes  
**Country of registration:** US  
**Application no.:** PCT/FI00/00755  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** Incremental redundancy between coded blocks with different sizes  
**Country of registration:** FI  
**Application no.:** 991932  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** Incremental redundancy between coded blocks with different sizes  
**Country of registration:** EPO  
**Application no.:** 00958556.3  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** Incremental redundancy between coded blocks with different sizes  
**Country of registration:** AU  
**Application no.:** 70038/00  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** Guaranteed service selection  
**Country of registration:** US  
**Application no.:** 09/367921  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** Guaranteed service selection  
**Country of registration:** JP  
**Application no.:** 11-536779  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** A method for enhancing data transmission  
**Country of registration:** AU  
**Application no.:** 16052/97  
**Patent no.:** 719988  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** A method for enhancing data transmission  
**Country of registration:** RU  
**Application no.:** 98117408  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** Data transfer in a mobile telephone network  
**Country of registration:** IT  
**Application no.:** MI98A001897  
**Patent no.:** 1302155  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** A method for enhancing data transmission  
**Country of registration:** DE  
**Application no.:** 19781589.8  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** A method for enhancing data transmission  
**Country of registration:** EPO  
**Application no.:** 97902391.8  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** A method for enhancing data transmission  
**Country of registration:** ES  
**Application no.:** 9850012  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** A method for enhancing data transmission  
**Country of registration:** FI  
**Application no.:** 960752  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** Guaranteed service selection  
**Country of registration:** FI  
**Application no.:** 980062  
**Patent no.:** 106831  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** A method for enhancing data transmission  
**Country of registration:** JP  
**Application no.:** 9-529024  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** Guaranteed service selection  
**Country of registration:** EPO  
**Application no.:** 99900478.1  
**Countries applicable:** HK  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** A method for enhancing data transmission  
**Country of registration:** US  
**Application no.:** 08/800575  
**Patent no.:** 6144676  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** Method and device for voice activity detection and a communication device  
**Country of registration:** EPO  
**Application no.:** 96118504.8  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** Method and device for voice activity detection and a communication device  
**Country of registration:** JP  
**Application no.:** 08-331874  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** Method and device for voice activity detection and a communication device  
**Country of registration:** US  
**Application no.:** 08/763975  
**Patent no.:** 5963901  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** Guaranteed service selection  
**Country of registration:** CA  
**Application no.:** 2283264  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** A method for enhancing data transmission  
**Country of registration:** CH  
**Application no.:** 1707/98  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** A method for enhancing data transmission  
**Country of registration:** GB  
**Application no.:** 9817289.3  
**Patent no.:** 2324937  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** KPN  
**Project:** GSM  
**Title:** Method for coding an analog signal having a repetitive nature and a device for coding by said method  
**Country of registration:** CA  
**Patent no.:** CA2050979  
**Countries applicable:** CA  
**ETSI Deliverable:** ETS 300 581-2; ETS 300 726; 3G TS 26.090 V.3.1.0  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** A method for reducing the number of GSM bearer services  
**Country of registration:** NZ  
**Application no.:** 318789  
**Patent no.:** 318789  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** A method for reducing the number of GSM bearer services  
**Country of registration:** US  
**Application no.:** 09/043702  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** Point-to-multipoint mobile radio transmission  
**Country of registration:** FI  
**Application no.:** 973303  
**Patent no.:** 105874  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** Point-to-multipoint mobile radio transmission  
**Country of registration:** EPO  
**Application no.:** 98925675.5  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** Point-to-multipoint mobile radio transmission  
**Country of registration:** CN  
**Application no.:** 98808034.6  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** Point-to-multipoint mobile radio transmission  
**Country of registration:** AU  
**Application no.:** 77698/98  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** Method for de-allocation of GPRS physical channel  
**Country of registration:** AU  
**Application no.:** 64018/98  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** Method for de-allocation of GPRS physical channel  
**Country of registration:** CN  
**Application no.:** 98804343.2  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** Method for de-allocation of GPRS physical channel  
**Country of registration:** EPO  
**Application no.:** 98909513.8  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** Method for de-allocation of GPRS physical channel  
**Country of registration:** FI  
**Application no.:** 971697  
**Patent no.:** 105136  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** Method for de-allocation of GPRS physical channel  
**Country of registration:** JP  
**Application no.:** 10-545065  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.



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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** Method for de-allocation of GPRS physical channel  
**Country of registration:** US  
**Application no.:** 09/603167  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** Data transfer in a mobile telephone network  
**Country of registration:** NL  
**Application no.:** 1009737  
**Patent no.:** 1009737  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** KPN  
**Project:** GSM  
**Title:** Method for coding an analog signal having a repetitive nature and a device for coding by said method  
**Country of registration:** EPO  
**Patent no.:** EP0475520  
**Countries applicable:** AT, BE, CH, LI, DE, DK, ES, FR, GB, IT, LU, NL, SE  
**ETSI Deliverable:** ETS 300 581-2; ETS 300 726; 3G TS 26.090 V.3.1.0  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** A method for reducing the number of GSM bearer services  
**Country of registration:** FI  
**Application no.:** 954545  
**Patent no.:** 101337  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** Cell selection in a multiple modulation cellular radio system  
**Country of registration:** FI  
**Application no.:** 980020  
**Patent no.:** 106607  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** ALGEBRAICH CODEBOOK WITH SIGNAL-SELECTED PULSE AMPLITUDE/POSITION COMBINATIONS FOR FAST CODING OF SPEECH  
**Country of registration:** FI  
**Application no.:** 973241  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** PREDICTIVE SPLIT-MATRIX QUANTIZATION OF SPECTRAL PARAMETERS FOR EFFICIENT CODING OF SPEECH  
**Country of registration:** CA  
**Application no.:** 2216315  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** Method and arrangement for defining transmission power in a mobile station  
**Country of registration:** US  
**Application no.:** 09/185687  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** Method and arrangement for defining transmission power in a mobile station  
**Country of registration:** RU  
**Application no.:** 98120252  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** Method and arrangement for defining transmission power in a mobile station  
**Country of registration:** NL  
**Application no.:** 1010477  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	Method and arrangement for defining transmission power in a mobile station
<b>Country of registration:</b>	JP
<b>Application no.:</b>	10-300863
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	Method and arrangement for defining transmission power in a mobile station
<b>Country of registration:</b>	IT
<b>Application no.:</b>	MI98A002375
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	Method and arrangement for defining transmission power in a mobile station
<b>Country of registration:</b>	IN
<b>Application no.:</b>	2404/MAS/98
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	Method and arrangement for defining transmission power in a mobile station
<b>Country of registration:</b>	GB
<b>Application no.:</b>	9823843.9
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	Method and arrangement for defining transmission power in a mobile station
<b>Country of registration:</b>	FR
<b>Application no.:</b>	9813208
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	Method and arrangement for defining transmission power in a mobile station
<b>Country of registration:</b>	FI
<b>Application no.:</b>	974144
<b>Patent no.:</b>	106665
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	Method and arrangement for defining transmission power in a mobile station
<b>Country of registration:</b>	ES
<b>Application no.:</b>	9802289
<b>Patent no.:</b>	9802289
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	Method for de-allocation of GPRS physical channel
<b>Country of registration:</b>	RU
<b>Application no.:</b>	99124596
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	KPN
<b>Project:</b>	GSM
<b>Title:</b>	Method for coding an analog signal having a repetitive nature and a device for coding by said method
<b>Country of registration:</b>	PT
<b>Patent no.:</b>	PT98900
<b>Countries applicable:</b>	PT
<b>ETSI Deliverable:</b>	ETS 300 581-2; ETS 300 726; 3G TS 26.090 V.3.1.0
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	Data transfer in a mobile telephone network
<b>Country of registration:</b>	HK
<b>Application no.:</b>	01103066.2
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** Data transfer in a mobile telephone network  
**Country of registration:** GB  
**Application no.:** 9818013.6  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** Data transfer in a mobile telephone network  
**Country of registration:** FR  
**Application no.:** 9810440  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** Data transfer in a mobile telephone network  
**Country of registration:** FI  
**Application no.:** 973373  
**Patent no.:** 106175  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** Data transfer in a mobile telephone network  
**Country of registration:** DE  
**Application no.:** 19835427.4  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** Data transfer in a mobile telephone network  
**Country of registration:** CN  
**Application no.:** 98810085.1  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** Data transfer in a mobile telephone network  
**Country of registration:** AU  
**Application no.:** 84437/98  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** Data transfer in a mobile telephone network  
**Country of registration:** AT  
**Application no.:** A1348/98  
**Patent no.:** 407.686  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** Point-to-multipoint mobile radio transmission  
**Country of registration:** US  
**Application no.:** 09/132122  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** Point-to-multipoint mobile radio transmission  
**Country of registration:** RU  
**Application no.:** 2000105897  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** Point-to-multipoint mobile radio transmission  
**Country of registration:** JP  
**Application no.:** 2000-506780  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	Point-to-multipoint mobile radio transmission
<b>Country of registration:</b>	HK
<b>Application no.:</b>	01101363.6
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	KPN
<b>Project:</b>	GSM
<b>Title:</b>	Method for coding an analog signal having a repetitive nature and a device for coding by said method
<b>Country of registration:</b>	FI
<b>Patent no.:</b>	FI105624
<b>Countries applicable:</b>	FI
<b>ETSI Deliverable:</b>	ETS 300 581-2; ETS 300 726; 3G TS 26.090 V.3.1.0
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	A method for reducing the number of GSM bearer services
<b>Country of registration:</b>	NO
<b>Application no.:</b>	981333
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	PACKET TRANSMISSION IN MOBILE TELECOMMUNICATIONS SYSTEMS
<b>Country of registration:</b>	JP
<b>Application no.:</b>	10-541193
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	Improving user data packet transmission in inter SGSN routing area update in GPRS
<b>Country of registration:</b>	FI
<b>Application no.:</b>	980340
<b>Patent no.:</b>	106424
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** A method for reducing the number of GSM bearer services  
**Country of registration:** EPO  
**Application no.:** 96931826.0  
**Countries applicable:** HK  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** A method for reducing the number of GSM bearer services  
**Country of registration:** CN  
**Application no.:** 96197188.6  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** A method for reducing the number of GSM bearer services  
**Country of registration:** CA  
**Application no.:** 2232792  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** A method for reducing the number of GSM bearer services  
**Country of registration:** AU  
**Application no.:** 70865/96  
**Patent no.:** 715225  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** KPN  
**Project:** GSM  
**Title:** Method for coding an analog signal having a repetitive nature and a device for coding by said method  
**Country of registration:** JP  
**Patent no.:** JP2640595  
**Countries applicable:** JP  
**ETSI Deliverable:** ETS 300 581-2; ETS 300 726; 3G TS 26.090 V.3.1.0  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.



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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** PACKET TRANSMISSION IN MOBILE TELECOMMUNICATIONS SYSTEMS  
**Country of registration:** NO  
**Application no.:** 985510  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** KPN  
**Project:** GSM  
**Title:** Method for coding an analog signal having a repetitive nature and a device for coding by said method  
**Country of registration:** NO  
**Patent no.:** NO302549  
**Countries applicable:** NO  
**ETSI Deliverable:** ETS 300 581-2; ETS 300 726; 3G TS 26.090 V.3.1.0  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** PACKET TRANSMISSION IN MOBILE TELECOMMUNICATIONS SYSTEMS  
**Country of registration:** FI  
**Application no.:** 971319  
**Patent no.:** 104874  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** PACKET TRANSMISSION IN MOBILE TELECOMMUNICATIONS SYSTEMS  
**Country of registration:** EPO  
**Application no.:** 98912514.1  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** PACKET TRANSMISSION IN MOBILE TELECOMMUNICATIONS SYSTEMS  
**Country of registration:** CN  
**Application no.:** 98800380.5  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	PACKET TRANSMISSION IN MOBILE TELECOMMUNICATIONS SYSTEMS
<b>Country of registration:</b>	AU
<b>Application no.:</b>	67316/98
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	KPN
<b>Project:</b>	GSM
<b>Title:</b>	Method for coding an analog signal having a repetitive nature and a device for coding by said method
<b>Country of registration:</b>	US
<b>Patent no.:</b>	US5528629
<b>Countries applicable:</b>	US
<b>ETSI Deliverable:</b>	ETS 300 581-2; ETS 300 726; 3G TS 26.090 V.3.1.0
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	A method for reducing the number of GSM bearer services
<b>Country of registration:</b>	JP
<b>Application no.:</b>	09-513159
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	PACKET TRANSMISSION IN MOBILE TELECOMMUNICATIONS SYSTEMS
<b>Country of registration:</b>	US
<b>Application no.:</b>	09/171968
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	Method and arrangement for defining transmission power in a mobile station
<b>Country of registration:</b>	BR
<b>Application no.:</b>	9804390-0
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

<b>Company name:</b>	Robert Bosch GmbH
<b>Project:</b>	GSM
<b>Title:</b>	Synchronisation method for mobile telephone of GSM standard with beginning, normal and end synchronisation
<b>Country of registration:</b>	DE
<b>Application no.:</b>	292374/92
<b>Countries applicable:</b>	JP
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	SIEMENS
<b>Project:</b>	GSM
<b>Title:</b>	Method, mobile station and radio communication system for controlling safety related functions in communication handling
<b>Country of registration:</b>	DE
<b>Application no.:</b>	KR / 7010361/00
<b>Countries applicable:</b>	KR
<b>ETSI Deliverable:</b>	GSM 04.08 V6.7.0 GSM 02.07 V6.1.0
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	SIEMENS
<b>Project:</b>	GSM
<b>Title:</b>	Method, mobile station and radio communication system for controlling safety related functions in communication handling
<b>Country of registration:</b>	DE
<b>Application no.:</b>	JP / 12-537394
<b>Countries applicable:</b>	JP
<b>ETSI Deliverable:</b>	GSM 04.08 V6.7.0 GSM 02.07 V6.1.0
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	Cell selection in a multiple modulation cellular radio system
<b>Country of registration:</b>	US
<b>Application no.:</b>	09/224234
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	SIEMENS
<b>Project:</b>	GSM
<b>Title:</b>	Method, mobile station and radio communication system for controlling safety related functions in communication handling
<b>Country of registration:</b>	DE
<b>Application no.:</b>	EP 1 064 810
<b>Countries applicable:</b>	EPO
<b>ETSI Deliverable:</b>	GSM 04.08 V6.7.0 GSM 02.07 V6.1.0

**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GSM  
**Title:** Method, mobile station and radio communication system for controlling safety related functions in communication handling  
**Country of registration:** DE  
**Application no.:** DE 19812215  
**Countries applicable:** DE  
**ETSI Deliverable:** GSM 04.08 V6.7.0  
 GSM 02.07 V6.1.0

**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GSM  
**Title:** Method, mobile station and radio communication system for controlling safety related functions in communication handling  
**Country of registration:** DE  
**Application no.:** WO99/48318  
**Countries applicable:** US  
**ETSI Deliverable:** GSM 04.08 V6.7.0  
 GSM 02.07 V6.1.0

**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** Method and arrangement for defining transmission power in a mobile station  
**Country of registration:** AU  
**Application no.:** 89266/98

**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** Cell selection in a multiple modulation cellular radio system  
**Country of registration:** EPO  
**Application no.:** 99300036.3

**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	Cell selection in a multiple modulation cellular radio system
<b>Country of registration:</b>	CN
<b>Application no.:</b>	99803540.8
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	Cell selection in a multiple modulation cellular radio system
<b>Country of registration:</b>	AU
<b>Application no.:</b>	18802/99
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	A method to evaluate the hangover period in a speech decoder in discontinuous transmission, and a speech encoder and the transceiver
<b>Country of registration:</b>	US
<b>Application no.:</b>	08/672932
<b>Patent no.:</b>	5835889
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	A method to evaluate the hangover period in a speech decoder in discontinuous transmission, and a speech encoder and the transceiver
<b>Country of registration:</b>	SE
<b>Application no.:</b>	9602230-6
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	SIEMENS
<b>Project:</b>	GSM
<b>Title:</b>	Method, base station and subscriber station for channel coding in a GSM mobile radio telephone system
<b>Country of registration:</b>	DE
<b>Application no.:</b>	WO00/31880
<b>Countries applicable:</b>	AU, BR, CA, CN, HU, ID, IN, JP, KR, MX, RU, US, EPO
<b>ETSI Deliverable:</b>	GSM 05.03 V8.3.0
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Robert Bosch GmbH  
**Project:** GSM  
**Title:** Electronic crypto-memory module  
**Country of registration:** DE  
**Patent no.:** 844486  
**Countries applicable:** NO  
**ETSI Deliverable:** GSM 03.20  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Robert Bosch GmbH  
**Project:** GSM  
**Title:** Synchronisation method for mobile telephone of GSM standard with beginning, normal and end synchronisation  
**Country of registration:** DE  
**Patent no.:** 106164  
**Countries applicable:** FI  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Robert Bosch GmbH  
**Project:** GSM  
**Title:** Synchronisation method for mobile telephone of GSM standard with beginning, normal and end synchronisation  
**Country of registration:** DE  
**Patent no.:** 4136147  
**Countries applicable:** DE  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Robert Bosch GmbH  
**Project:** GSM  
**Title:** Data transmission method especially in GSM communication system  
**Country of registration:** DE  
**Application no.:** 68155  
**Countries applicable:** US  
**ETSI Deliverable:** GSM 04.53  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Robert Bosch GmbH  
**Project:** GSM  
**Title:** Data transmission method especially in GSM communication system  
**Country of registration:** DE  
**Patent no.:** 520047/97  
**Countries applicable:** JP  
**ETSI Deliverable:** GSM 04.53  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

<b>Company name:</b>	Robert Bosch GmbH
<b>Project:</b>	GSM
<b>Title:</b>	Data transmission method especially in GSM communication system
<b>Country of registration:</b>	DE
<b>Application no.:</b>	PTC DE96/01683
<b>Countries applicable:</b>	CA
<b>ETSI Deliverable:</b>	GSM 04.53
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	A method to evaluate the hangover period in a speech decoder in discontinuous transmission, and a speech encoder and the transceiver
<b>Country of registration:</b>	RU
<b>Application no.:</b>	98101723
<b>Patent no.:</b>	2158446
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Robert Bosch GmbH
<b>Project:</b>	GSM
<b>Title:</b>	Method for decoding binary signals
<b>Country of registration:</b>	DE
<b>Patent no.:</b>	4137609
<b>Countries applicable:</b>	DE
<b>ETSI Deliverable:</b>	GSM 06.21, V5.0.1
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	A method to evaluate the hangover period in a speech decoder in discontinuous transmission, and a speech encoder and the transceiver
<b>Country of registration:</b>	MX
<b>Application no.:</b>	9710357
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Robert Bosch GmbH
<b>Project:</b>	GSM
<b>Title:</b>	Electronic crypto-memory module
<b>Country of registration:</b>	DE
<b>Patent no.:</b>	3340582
<b>Countries applicable:</b>	DE
<b>ETSI Deliverable:</b>	GSM 03.20
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

<b>Company name:</b>	Robert Bosch GmbH
<b>Project:</b>	GSM
<b>Title:</b>	Electronic crypto-memory module
<b>Country of registration:</b>	DE
<b>Patent no.:</b>	5395/84
<b>Countries applicable:</b>	CH
<b>ETSI Deliverable:</b>	GSM 03.20
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Sun Microsystems, Inc.
<b>Project:</b>	GSM
<b>Title:</b>	Data Exchange System Comprising Portable Data Processing Units
<b>Country of registration:</b>	EU
<b>Patent no.:</b>	666550
<b>Countries applicable:</b>	DE, GB, FR, IT, NL
<b>ETSI Deliverable:</b>	GSM 03.19
<b>Notes:</b>	In accordance with the ETSI IPR Policy, Article 4.1, the SIGNATORY hereby informs ETSI that, with reference to ETSI Standard No. GSM 03.19, SUN hereby declares its belief that the above-mentioned patent might be considered ESSENTIAL in respect of the GSM 03.19 specification. SUN further declares that it has granted, and is prepared to continue to grant, licenses under its ESSENTIAL IPR, including the listed patents, on fair, reasonable and non-discriminatory terms and conditions. In making this latter declaration, SUN relies on their continuing belief, also stated in their prior declaration to ETSI with respect to GSM 03.19, that their standard license terms and conditions, as reflected in agreements they have previously entered into with SIM card manufacturers, satisfy this standard.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	Method and arrangement for defining transmission power in a mobile station
<b>Country of registration:</b>	CN
<b>Application no.:</b>	98123845.9
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	Method and arrangement for defining transmission power in a mobile station
<b>Country of registration:</b>	CH
<b>Application no.:</b>	2114/98
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	A method to evaluate the hangover period in a speech decoder in discontinuous transmission, and a speech encoder and the transceiver
<b>Country of registration:</b>	US
<b>Application no.:</b>	08/672932
<b>Patent no.:</b>	5835889
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.



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<b>Company name:</b>	Robert Bosch GmbH
<b>Project:</b>	GSM
<b>Title:</b>	Method for decoding binary signals
<b>Country of registration:</b>	DE
<b>Application no.:</b>	925170
<b>Countries applicable:</b>	FI
<b>ETSI Deliverable:</b>	GSM 06.21, V5.0.1
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	A method to evaluate the hangover period in a speech decoder in discontinuous transmission, and a speech encoder and the transceiver
<b>Country of registration:</b>	AT
<b>Application no.:</b>	A935/96
<b>Patent no.:</b>	405346
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	PREDICTIVE SPLIT-MATRIX QUANTIZATION OF SPECTRAL PARAMETERS FOR EFFICIENT CODING OF SPEECH
<b>Country of registration:</b>	CN
<b>Application no.:</b>	96193827,7
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	PREDICTIVE SPLIT-MATRIX QUANTIZATION OF SPECTRAL PARAMETERS FOR EFFICIENT CODING OF SPEECH
<b>Country of registration:</b>	EPO
<b>Application no.:</b>	96908945,7
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	PREDICTIVE SPLIT-MATRIX QUANTIZATION OF SPECTRAL PARAMETERS FOR EFFICIENT CODING OF SPEECH
<b>Country of registration:</b>	JP
<b>Application no.:</b>	08-529817
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** SPEECH SYNTHESIZER EMPLOYING POST-PROCESSING FOR ENHANCING THE QUALITY OF THE SYNTHESIZED SPEECH  
**Country of registration:** GB  
**Application no.:** 9512284,2  
**Patent no.:** 714752  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** SPEECH SYNTHESIZER EMPLOYING POST-PROCESSING FOR ENHANCING THE QUALITY OF THE SYNTHESIZED SPEECH  
**Country of registration:** AU  
**Application no.:** 62309/96  
**Patent no.:** 714742  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** SPEECH SYNTHESIZER EMPLOYING POST-PROCESSING FOR ENHANCING THE QUALITY OF THE SYNTHESIZED SPEECH  
**Country of registration:** BR  
**Application no.:** 9608479-0  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** SPEECH SYNTHESIZER EMPLOYING POST-PROCESSING FOR ENHANCING THE QUALITY OF THE SYNTHESIZED SPEECH  
**Country of registration:** CA  
**Application no.:** 2224688  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** SPEECH SYNTHESIZER EMPLOYING POST-PROCESSING FOR ENHANCING THE QUALITY OF THE SYNTHESIZED SPEECH  
**Country of registration:** CN  
**Application no.:** 96196226,7  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** SPEECH SYNTHESIZER EMPLOYING POST-PROCESSING FOR ENHANCING THE QUALITY OF THE SYNTHESIZED SPEECH  
**Country of registration:** EPO  
**Application no.:** 96920925,3  
**Countries applicable:** AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** SPEECH SYNTHESIZER EMPLOYING POST-PROCESSING FOR ENHANCING THE QUALITY OF THE SYNTHESIZED SPEECH  
**Country of registration:** ES  
**Application no.:** P9750009  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** SPEECH SYNTHESIZER EMPLOYING POST-PROCESSING FOR ENHANCING THE QUALITY OF THE SYNTHESIZED SPEECH  
**Country of registration:** IN  
**Application no.:** 1054/MAS/96  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** SPEECH SYNTHESIZER EMPLOYING POST-PROCESSING FOR ENHANCING THE QUALITY OF THE SYNTHESIZED SPEECH  
**Country of registration:** JP  
**Application no.:** 9-502809  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** SPEECH SYNTHESIZER EMPLOYING POST-PROCESSING FOR ENHANCING THE QUALITY OF THE SYNTHESIZED SPEECH  
**Country of registration:** RU  
**Application no.:** 98101107  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** Cell selection in a multiple modulation cellular radio system  
**Country of registration:** JP  
**Application no.:** 2000-528121  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	A method to evaluate the hangover period in a speech decoder in discontinuous transmission, and a speech encoder and the transceiver
<b>Country of registration:</b>	ES
<b>Application no.:</b>	9601195
<b>Patent no.:</b>	9601195
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	A method to evaluate the hangover period in a speech decoder in discontinuous transmission, and a speech encoder and the transceiver
<b>Country of registration:</b>	SE
<b>Application no.:</b>	9602230-6
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	A method to evaluate the hangover period in a speech decoder in discontinuous transmission, and a speech encoder and the transceiver
<b>Country of registration:</b>	RU
<b>Application no.:</b>	PCT/FI96/00369
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	A method to evaluate the hangover period in a speech decoder in discontinuous transmission, and a speech encoder and the transceiver
<b>Country of registration:</b>	MX
<b>Application no.:</b>	9710357
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	A method to evaluate the hangover period in a speech decoder in discontinuous transmission, and a speech encoder and the transceiver
<b>Country of registration:</b>	JP
<b>Application no.:</b>	9-504848
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	A method to evaluate the hangover period in a speech decoder in discontinuous transmission, and a speech encoder and the transceiver
<b>Country of registration:</b>	IT
<b>Application no.:</b>	MI96A/001200
<b>Patent no.:</b>	1283133
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	SPEECH SYNTHESIZER EMPLOYING POST-PROCESSING FOR ENHANCING THE QUALITY OF THE SYNTHESIZED SPEECH
<b>Country of registration:</b>	US
<b>Application no.:</b>	662991
<b>Patent no.:</b>	5946651
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	A method to evaluate the hangover period in a speech decoder in discontinuous transmission, and a speech encoder and the transceiver
<b>Country of registration:</b>	FR
<b>Application no.:</b>	9607841
<b>Patent no.:</b>	2736186
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	A method to evaluate the hangover period in a speech decoder in discontinuous transmission, and a speech encoder and the transceiver
<b>Country of registration:</b>	FI
<b>Application no.:</b>	953252
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	A method to evaluate the hangover period in a speech decoder in discontinuous transmission, and a speech encoder and the transceiver
<b>Country of registration:</b>	BR
<b>Application no.:</b>	PI9608734-0
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	A method to evaluate the hangover period in a speech decoder in discontinuous transmission, and a speech encoder and the transceiver
<b>Country of registration:</b>	CN
<b>Application no.:</b>	96195176,1
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	Improving user data packet transmission in inter SGSN routing area update in GPRS
<b>Country of registration:</b>	CN
<b>Application no.:</b>	99802910.6
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	A method to evaluate the hangover period in a speech decoder in discontinuous transmission, and a speech encoder and the transceiver
<b>Country of registration:</b>	BT
<b>Application no.:</b>	PI9608734-0
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	A method to evaluate the hangover period in a speech decoder in discontinuous transmission, and a speech encoder and the transceiver
<b>Country of registration:</b>	AU
<b>Application no.:</b>	62260
<b>Patent no.:</b>	701220
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	A method to evaluate the hangover period in a speech decoder in discontinuous transmission, and a speech encoder and the transceiver
<b>Country of registration:</b>	DE
<b>Application no.:</b>	19617630,1
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	A method to evaluate the hangover period in a speech decoder in discontinuous transmission, and a speech encoder and the transceiver
<b>Country of registration:</b>	GB
<b>Application no.:</b>	9612833,5
<b>Patent no.:</b>	2303034
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	SIEMENS
<b>Project:</b>	GSM
<b>Title:</b>	Method for the transmission of subscriber data between network nodes in at least one communications network supporting the structure of an intelligent network
<b>Country of registration:</b>	DE
<b>Patent no.:</b>	US 5 839 076
<b>Countries applicable:</b>	US
<b>ETSI Deliverable:</b>	GSM 03.78 V6.1.1 TS 29.002 V3.6.0

**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

**Company name:** SIEMENS  
**Project:** GSM  
**Title:** Method and system for determining the location of a mobile radio communication subscriber registered in a cellular mobile radiotelephone network  
**Country of registration:** DE  
**Application no.:** IN / 1533/CAL/97  
**Countries applicable:** IN  
**ETSI Deliverable:** GSM 03.79 V5.2.0  
 TS 23.079 V3.3.0

**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

**Company name:** SIEMENS  
**Project:** GSM  
**Title:** Method and system for determining the location of a mobile radio communication subscriber registered in a cellular mobile radiotelephone network  
**Country of registration:** DE  
**Application no.:** CN / 1180285  
**Countries applicable:** CN  
**ETSI Deliverable:** GSM 03.79 V5.2.0  
 TS 23.079 V3.3.0

**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

**Company name:** SIEMENS  
**Project:** GSM  
**Title:** Method and system for determining the location of a mobile radio communication subscriber registered in a cellular mobile radiotelephone network  
**Country of registration:** DE  
**Application no.:** EP 0 827 355  
**Countries applicable:** EPO  
**ETSI Deliverable:** GSM 03.79 V5.2.0  
 TS 23.079 V3.3.0

**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

**Company name:** SIEMENS  
**Project:** GSM  
**Title:** Method for administering additional services in a mobile communication network  
**Country of registration:** DE  
**Patent no.:** ZA/ 97/1770  
**Countries applicable:** ZA  
**ETSI Deliverable:** GSM 03.18 V6.5.0  
 GSM 03.16 V7.2.0  
 GSM 03.78 V6.1.1  
 TS 29.002 V3.6.0

**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GSM  
**Title:** Method for administering additional services in a mobile communication network  
**Country of registration:** DE  
**Patent no.:** US 6 085 105  
**Countries applicable:** US  
**ETSI Deliverable:** GSM 03.18 V6.5.0  
 GSM 03.16 V7.2.0  
 GSM 03.78 V6.1.1  
 TS 29.002 V3.6.0

**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GSM  
**Title:** Method for administering additional services in a mobile communication network  
**Country of registration:** DE  
**Patent no.:** DE 196 08 464  
**Countries applicable:** DE  
**ETSI Deliverable:** GSM 03.18 V6.5.0  
 GSM 03.16 V7.2.0  
 GSM 03.78 V6.1.1  
 TS 29.002 V3.6.0

**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GSM  
**Title:** Method for administering additional services in a mobile communication network  
**Country of registration:** DE  
**Application no.:** IN / 266/CAL/97  
**Countries applicable:** IN  
**ETSI Deliverable:** GSM 03.18 V6.5.0  
 GSM 03.16 V7.2.0  
 GSM 03.78 V6.1.1  
 TS 29.002 V3.6.0

**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GSM  
**Title:** Method for administering additional services in a mobile communication network  
**Country of registration:** DE  
**Application no.:** CN / 1160330  
**Countries applicable:** CN  
**ETSI Deliverable:** GSM 03.18 V6.5.0  
 GSM 03.16 V7.2.0  
 GSM 03.78 V6.1.1  
 TS 29.002 V3.6.0



**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GSM  
**Title:** Method for administering additional services in a mobile communication network  
**Country of registration:** DE  
**Application no.:** EP 0 793 394  
**Countries applicable:** EPO  
**ETSI Deliverable:** GSM 03.18 V6.5.0  
 GSM 03.16 V7.2.0  
 GSM 03.78 V6.1.1  
 TS 29.002 V3.6.0

**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GSM  
**Title:** Method for confirmed multi-address calling in a regionally split GSM mobile radio network  
**Country of registration:** DE  
**Patent no.:** DE 19549008  
**Countries applicable:** DE  
**ETSI Deliverable:** GSM 03.68 V6.2.0  
 GSM 03.69 V6.2.0  
 GSM 09.07 V4.11.0

**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GSM  
**Title:** Method for confirmed multi-address calling in a regionally split GSM mobile radio network  
**Country of registration:** DE  
**Application no.:** IN / 2152/CAL/96  
**Countries applicable:** IN  
**ETSI Deliverable:** GSM 03.68 V6.2.0  
 GSM 03.69 V6.2.0  
 GSM 09.07 V4.11.0

**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GSM  
**Title:** Method for confirmed multi-address calling in a regionally split GSM mobile radio network  
**Country of registration:** DE  
**Application no.:** EP 0 782 356  
**Countries applicable:** EPO  
**ETSI Deliverable:** GSM 03.68 V6.2.0  
 GSM 03.69 V6.2.0  
 GSM 09.07 V4.11.0

**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

**Company name:** SIEMENS  
**Project:** GSM  
**Title:** Method and system for determining the location of a mobile radio communication subscriber registered in a cellular mobile radiotelephone network  
**Country of registration:** DE  
**Patent no.:** DE 19635581  
**Countries applicable:** DE  
**ETSI Deliverable:** GSM 03.79 V5.2.0  
 TS 23.079 V3.3.0

**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

**Company name:** SIEMENS  
**Project:** GSM  
**Title:** Method for the transmission of subscriber data between network nodes in at least one communications network supporting the structure of an intelligent network  
**Country of registration:** DE  
**Patent no.:** DE 19509000  
**Countries applicable:** DE  
**ETSI Deliverable:** GSM 03.78 V6.1.1  
 TS 29.002 V3.6.0

**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

**Company name:** SIEMENS  
**Project:** GSM  
**Title:** Method and system for determining the location of a mobile radio communication subscriber registered in a cellular mobile radiotelephone network  
**Country of registration:** DE  
**Patent no.:** US 6035 198  
**Countries applicable:** US  
**ETSI Deliverable:** GSM 03.79 V5.2.0  
 TS 23.079 V3.3.0

**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

**Company name:** SIEMENS  
**Project:** GSM  
**Title:** Method for Setting up a call connection for a group call to a group of mobile radio subscribers in a mobile radio network  
**Country of registration:** DE  
**Application no.:** EP 0 727 914  
**Countries applicable:** EPO  
**ETSI Deliverable:** GSM 03.68 V5.3.1  
 GSM 03.69 V5.1.2

**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

**Company name:** SIEMENS  
**Project:** GSM  
**Title:** Method for the use of services by network subscribers  
**Country of registration:** DE  
**Patent no.:** EP 0 715 473  
**Countries applicable:** EPO  
**ETSI Deliverable:** GSM 03.78 V6.1.1  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

**Company name:** SIEMENS  
**Project:** GSM  
**Title:** Method for the use of services by network subscribers  
**Country of registration:** DE  
**Application no.:** FI / 955737  
**Countries applicable:** FI  
**ETSI Deliverable:** GSM 03.78 V6.1.1  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

**Company name:** SIEMENS  
**Project:** GSM  
**Title:** Method for setting up a connection between a plurality of cellular networks  
**Country of registration:** DE  
**Patent no.:** EP 0 675 663  
**Countries applicable:** EPO  
**ETSI Deliverable:** GSM 03.18 V6.5.0  
GSM 02.79 V6.0.0  
TS 22.079 V3.0.1  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

**Company name:** SIEMENS  
**Project:** GSM  
**Title:** Telecommunications network as well as subscriber stations and central station for a Telecommunications network  
**Country of registration:** DE  
**Patent no.:** DE 36 38 735  
**Countries applicable:** DE  
**ETSI Deliverable:** GSM 03.03 V7.5.0  
GSM 02.16 V7.2.0  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GSM  
**Title:** Device for point-to-point wire-free transmission of speech  
**Country of registration:** DE  
**Patent no.:** DE 32 25 443  
**Countries applicable:** DE  
**ETSI Deliverable:** GSM 05.05 V8.3.0  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GSM  
**Title:** Method for jam-resistant communication transmission  
**Country of registration:** DE  
**Patent no.:** CA 1238951  
**Countries applicable:** CA  
**ETSI Deliverable:** GSM 06.31 V8.0.0  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GSM  
**Title:** Method for the transmission of subscriber data between network nodes in at least one communications network supporting the structure of an intelligent network  
**Country of registration:** DE  
**Application no.:** EP 0 732 861  
**Countries applicable:** EPO  
**ETSI Deliverable:** GSM 03.78 V6.1.1  
 TS 29.002 V3.6.0  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GSM  
**Title:** Method for jam-resistant communication transmission  
**Country of registration:** DE  
**Patent no.:** US 4 843 612  
**Countries applicable:** US  
**ETSI Deliverable:** GSM 06.31 V8.0.0  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GSM  
**Title:** Method for the transmission of subscriber data between network nodes in at least one communications network supporting the structure of an intelligent network  
**Country of registration:** DE  
**Application no.:** FI / 961174  
**Countries applicable:** FI  
**ETSI Deliverable:** GSM 03.78 V6.1.1  
 TS 29.002 V3.6.0

**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** A method to evaluate the hangover period in a speech decoder in discontinuous transmission, and a speech encoder and the transceiver  
**Country of registration:** CA  
**Application no.:** 2222501  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Robert Bosch GmbH  
**Project:** GSM  
**Title:** Synchronisation method for mobile telephone of GSM standard with beginning, normal and end synchronisation  
**Country of registration:** DE  
**Patent no.:** 5390216  
**Countries applicable:** US  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GSM  
**Title:** Method for the transmission of subscriber data between network nodes in at least one communications network supporting the structure of an intelligent network  
**Country of registration:** DE  
**Application no.:** CN / 1137714  
**Countries applicable:** CN  
**ETSI Deliverable:** GSM 03.78 V6.1.1  
TS 29.002 V3.6.0  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GSM  
**Title:** Method for displaying telephone numbers on subscriber stations of calling subscribers in a voice group call service  
**Country of registration:** DE  
**Application no.:** EP 0 771 126  
**Countries applicable:** EPO  
**ETSI Deliverable:** GSM 02.68 V5.1.3  
GSM 03.68 V5.3.1  
GSM 02.69 V5.1.3  
GSM 03.69 V5.1.2  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	Method and arrangement for defining transmission power in a mobile station
<b>Country of registration:</b>	DE
<b>Application no.:</b>	19847678.7
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	SIEMENS
<b>Project:</b>	GSM
<b>Title:</b>	Method and system for determining the location of a mobile radio communication subscriber registered in a cellular mobile radiotelephone network
<b>Country of registration:</b>	DE
<b>Application no.:</b>	KR / 24254/98
<b>Countries applicable:</b>	KR
<b>ETSI Deliverable:</b>	GSM 03.79 V5.2.0 TS 23.079 V3.3.0
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	A method to evaluate the hangover period in a speech decoder in discontinuous transmission, and a speech encoder and the transceiver
<b>Country of registration:</b>	ES
<b>Application no.:</b>	9601195
<b>Patent no.:</b>	9601195
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	A method to evaluate the hangover period in a speech decoder in discontinuous transmission, and a speech encoder and the transceiver
<b>Country of registration:</b>	FI
<b>Application no.:</b>	953252
<b>Patent no.:</b>	105001
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** A method to evaluate the hangover period in a speech decoder in discontinuous transmission, and a speech encoder and the transceiver  
**Country of registration:** FR  
**Application no.:** 9607841  
**Patent no.:** 2736186  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** A method to evaluate the hangover period in a speech decoder in discontinuous transmission, and a speech encoder and the transceiver  
**Country of registration:** GB  
**Application no.:** 9612833.5  
**Patent no.:** 2303034  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** A method to evaluate the hangover period in a speech decoder in discontinuous transmission, and a speech encoder and the transceiver  
**Country of registration:** CN  
**Application no.:** 96195176.1  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** A method to evaluate the hangover period in a speech decoder in discontinuous transmission, and a speech encoder and the transceiver  
**Country of registration:** JP  
**Application no.:** 9-504848  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** A method to evaluate the hangover period in a speech decoder in discontinuous transmission, and a speech encoder and the transceiver  
**Country of registration:** CA  
**Application no.:** 2222501  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GSM  
**Title:** Interception in wireless networks  
**Country of registration:** DE  
**Application no.:** CN / 1271501  
**Countries applicable:** CN  
**ETSI Deliverable:** GSM 03.33 V7.1.0  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GSM  
**Title:** Interception in wireless networks  
**Country of registration:** DE  
**Patent no.:** DE 197 41 216  
**Countries applicable:** DE  
**ETSI Deliverable:** GSM 03.33 V7.1.0  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Sun Microsystems, Inc.  
**Project:** GSM  
**Title:** Data Exchange System Comprising Portable Data Processing Units  
**Country of registration:** AU  
**Patent no.:** 706393  
**Countries applicable:** AU  
**ETSI Deliverable:** GSM 03.19  
**Notes:** In accordance with the ETSI IPR Policy, Article 4.1, the SIGNATORY hereby informs ETSI that, with reference to ETSI Standard No. GSM 03.19, SUN hereby declares its belief that the above-mentioned patent might be considered ESSENTIAL in respect of the GSM 03.19 specification. SUN further declares that it has granted, and is prepared to continue to grant, licenses under its ESSENTIAL IPR, including the listed patents, on fair, reasonable and non-discriminatory terms and conditions. In making this latter declaration, SUN relies on their continuing belief, also stated in their prior declaration to ETSI with respect to GSM 03.19, that their standard license terms and conditions, as reflected in agreements they have previously entered into with SIM card manufacturers, satisfy this standard.

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**Company name:** Sun Microsystems, Inc.  
**Project:** GSM  
**Title:** Data Exchange System Comprising Portable Data Processing Units  
**Country of registration:** EU  
**Patent no.:** 757336  
**Countries applicable:** BE, DK, DE, GB, FR, GR, IE, IT, LU, AT, PT, CH, ES, SE, NL  
**ETSI Deliverable:** GSM 03.19  
**Notes:** In accordance with the ETSI IPR Policy, Article 4.1, the SIGNATORY hereby informs ETSI that, with reference to ETSI Standard No. GSM 03.19, SUN hereby declares its belief that the above-mentioned patent might be considered ESSENTIAL in respect of the GSM 03.19 specification. SUN further declares that it has granted, and is prepared to continue to grant, licenses under its ESSENTIAL IPR, including the listed patents, on fair, reasonable and non-discriminatory terms and conditions. In making this latter declaration, SUN relies on their continuing belief, also stated in their prior declaration to ETSI with respect to GSM 03.19, that their standard license terms and conditions, as reflected in agreements they have previously entered into with SIM card manufacturers, satisfy this standard.



<b>Company name:</b>	Sun Microsystems, Inc.
<b>Project:</b>	GSM
<b>Title:</b>	Data Exchange System Comprising Portable Data Processing Units
<b>Country of registration:</b>	NZ
<b>Patent no.:</b>	278967
<b>Countries applicable:</b>	NZ
<b>ETSI Deliverable:</b>	GSM 03.19
<b>Notes:</b>	In accordance with the ETSI IPR Policy, Article 4.1, the SIGNATORY hereby informs ETSI that, with reference to ETSI Standard No. GSM 03.19, SUN hereby declares its belief that the above-mentioned patent might be considered ESSENTIAL in respect of the GSM 03.19 specification. SUN further declares that it has granted, and is prepared to continue to grant, licenses under its ESSENTIAL IPR, including the listed patents, on fair, reasonable and non-discriminatory terms and conditions. In making this latter declaration, SUN relies on their continuing belief, also stated in their prior declaration to ETSI with respect to GSM 03.19, that their standard license terms and conditions, as reflected in agreements they have previously entered into with SIM card manufacturers, satisfy this standard.
<b>Company name:</b>	Robert Bosch GmbH
<b>Project:</b>	GSM
<b>Title:</b>	Synchronisation method for mobile telephone of GSM standard with beginning, normal and end synchronisation
<b>Country of registration:</b>	DE
<b>Patent no.:</b>	540808
<b>Countries applicable:</b>	AT, DE, DK, ES, FR, GB, IT, NL, SE
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	GSM
<b>Title:</b>	A method to evaluate the hangover period in a speech decoder in discontinuous transmission, and a speech encoder and the transceiver
<b>Country of registration:</b>	IT
<b>Application no.:</b>	MI96A/001200
<b>Patent no.:</b>	1283133
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	SIEMENS
<b>Project:</b>	GSM
<b>Title:</b>	Method and base station system for voice transmission via a radio interface in a digital radio communication system having mobile stations and base stations
<b>Country of registration:</b>	DE
<b>Application no.:</b>	CA / 2225205
<b>Countries applicable:</b>	CA
<b>ETSI Deliverable:</b>	GSM 06.76 V7.2.0
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	SIEMENS
<b>Project:</b>	GSM
<b>Title:</b>	Method and mobile communication system for routing of call connections
<b>Country of registration:</b>	DE
<b>Application no.:</b>	WO98/23117
<b>Countries applicable:</b>	US
<b>ETSI Deliverable:</b>	GSM 03.18 V6.5.0 GSM 03.79 V5.2.0 TS 23.079 V3.3.0

**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GSM  
**Title:** Method and mobile communication system for routeing of call connections  
**Country of registration:** DE  
**Application no.:** DE 19635581  
**Countries applicable:** DE  
**ETSI Deliverable:** GSM 03.18 V6.5.0  
 GSM 03.79 V5.2.0  
 TS 23.079 V3.3.0

**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GSM  
**Title:** Method and mobile communication system for routeing of call connections  
**Country of registration:** DE  
**Application no.:** EP 0 878 109  
**Countries applicable:** EPO  
**ETSI Deliverable:** GSM 03.18 V6.5.0  
 GSM 03.79 V5.2.0  
 TS 23.079 V3.3.0

**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** GSM  
**Title:** A method to evaluate the hangover period in a speech decoder in discontinuous transmission, and a speech encoder and the transceiver  
**Country of registration:** DE  
**Application no.:** 19617630.1  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GSM  
**Title:** Method and base station system for voice transmission via a radio interface in a digital radio communication system having mobile stations and base stations  
**Country of registration:** DE  
**Application no.:** IN / 2391/CAL/97  
**Countries applicable:** IN  
**ETSI Deliverable:** GSM 06.76 V7.2.0  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GSM  
**Title:** Method and system for determining the location of a mobile radio communication subscriber registered in a cellular mobile radiotelephone network  
**Country of registration:** DE  
**Patent no.:** JP 2977154  
**Countries applicable:** JP  
**ETSI Deliverable:** GSM 03.79 V5.2.0  
 TS 23.079 V3.3.0  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GSM  
**Title:** Method and base station system for voice transmission via a radio interface in a digital radio communication system having mobile stations and base stations  
**Country of registration:** DE  
**Patent no.:** US 6 128 513  
**Countries applicable:** US  
**ETSI Deliverable:** GSM 06.76 V7.2.0  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GSM  
**Title:** Method and base station system for voice transmission via a radio interface in a digital radio communication system having mobile stations and base stations  
**Country of registration:** DE  
**Patent no.:** DE 19653122  
**Countries applicable:** DE  
**ETSI Deliverable:** GSM 06.76 V7.2.0  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GSM  
**Title:** Method and mobile communication system for supporting portability of a mobile subscriber telephone number  
**Country of registration:** DE  
**Patent no.:** DE 197 09 713  
**Countries applicable:** DE  
**ETSI Deliverable:** GSM 03.66 V7.3.1  
 GSM 02.66 V7.1.0  
 TS 22.066 V3.0.1  
 TS 23.066 V3.1.0  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GSM  
**Title:** Method for Setting up a call connection for a group call to a group of mobile radio subscribers in a mobile radio network  
**Country of registration:** DE  
**Application no.:** FI / 960662  
**Countries applicable:** FI  
**ETSI Deliverable:** GSM 03.68 V5.3.1  
 GSM 03.69 V5.1.2  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GSM  
**Title:** Interception in wireless networks  
**Country of registration:** DE  
**Application no.:** EP 1 016 304  
**Countries applicable:** EPO  
**ETSI Deliverable:** GSM 03.33 V7.1.0  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GSM  
**Title:** Method for Setting up a call connection for a group call to a group of mobile radio subscribers in a mobile radio network  
**Country of registration:** DE  
**Patent no.:** US 5 797 100  
**Countries applicable:** US  
**ETSI Deliverable:** GSM 03.68 V5.3.1  
 GSM 03.69 V5.1.2  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Motorola  
**Project:** GSM  
**Title:** Digital Speech Coder Having Improved Long Term Lag Parameter Determination  
**Country of registration:** EPO  
**Patent no.:** EP0415163  
**Countries applicable:** BE, CH, DE, FR, GB, IT, LI, NL  
**ETSI Deliverable:** GSM 06.20  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** SIEMENS  
**Project:** GSM  
**Title:** Method and base station system for voice transmission via a radio interface in a digital radio communication system having mobile stations and base stations  
**Country of registration:** DE  
**Application no.:** GB 2322047  
**Countries applicable:** GB  
**ETSI Deliverable:** GSM 06.76 V7.2.0  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

## GSM/AMR-NB

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**Company name:** NEC Corporation  
**Project:** GSM/AMR-NB  
**Country of registration:** JP  
**Application no.:** 57-231606  
**Patent no.:** 1740694  
**Countries applicable:** JP  
**Notes:** AMR

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**Company name:** NEC Corporation  
**Project:** GSM/AMR-NB  
**Country of registration:** JP  
**Application no.:** 57-231603  
**Patent no.:** 1740692  
**Countries applicable:** JP  
**Notes:** AMR

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**Company name:** Nokia  
**Project:** GSM/AMR-NB  
**Country of registration:** US  
**Patent no.:** 5444816  
**Countries applicable:** US  
**Notes:** AMR

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**Company name:** NEC Corporation  
**Project:** GSM/AMR-NB  
**Country of registration:** JP  
**Application no.:** 57-231605  
**Patent no.:** 1740693  
**Countries applicable:** JP  
**Notes:** AMR

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**Company name:** Nortel Northern Telecom Ltd.  
**Project:** GSM/AMR-NB  
**Title:** Methods and apparatus for noise conditioning in digital speech compression using linear predictive coding  
**Country of registration:** CA  
**Patent no.:** US 5642464  
**Countries applicable:** CA, US, EU  
**Notes:** Nortel has stated that, in accordance with the ETSI Interim IPR Policy, Article 4.1 and in relation to the work item No AMR, they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI Interim IPR Policy, in respect of the Standard, to the extent that the IPRs remain essential.

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**Company name:** NEC Corporation  
**Project:** GSM/AMR-NB  
**Title:** Method and apparatus for encoding voice signals  
**Country of registration:** US  
**Application no.:** 565804  
**Patent no.:** 4716592  
**Countries applicable:** US  
**Notes:** AMR

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**Company name:** France Telecom  
**Project:** GSM/AMR-NB  
**Title:** Method of adapting the noise masking level in an analysis-by-synthesis speech coder employing a short-term perceptual weighting filter  
**Country of registration:** FR  
**Patent no.:** 2734389  
**Countries applicable:** US, CA, JP, CN, HK, KR, FR, GB, DE, IT, NL, SE, DK  
**Notes:** B-FRANC candidate of AMR selection. The list provided during this AMR selection phase may not include "pending" patents.

<b>Company name:</b>	Nokia
<b>Project:</b>	GSM/AMR-NB
<b>Country of registration:</b>	US
<b>Patent no.:</b>	5664053
<b>Countries applicable:</b>	US
<b>Notes:</b>	AMR
<b>Company name:</b>	Cellnet
<b>Project:</b>	GSM/AMR-NB
<b>Country of registration:</b>	n/a
<b>ETSI Deliverable:</b>	AMR
<b>Notes:</b>	Cellnet declared, with respect to work item and standard No AMR, that they are prepared, to grant irrevocable licenses under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the standard, to the extent that the standard remain essential. The list provided during this AMR Selection phase may not include "pending" patents.
<b>Company name:</b>	Rockwell Semiconductor Systems
<b>Project:</b>	GSM/AMR-NB
<b>Title:</b>	Usage of voice activity detection for efficient coding of speech
<b>Country of registration:</b>	n/a
<b>Application no.:</b>	n/a
<b>Patent no.:</b>	5689615
<b>Countries applicable:</b>	US
<b>Notes:</b>	AMR
<b>Company name:</b>	Rockwell Semiconductor Systems
<b>Project:</b>	GSM/AMR-NB
<b>Title:</b>	Method and apparatus for generating frame voicing decisions of an incoming speech signal
<b>Country of registration:</b>	n/a
<b>Application no.:</b>	n/a
<b>Patent no.:</b>	5774849
<b>Countries applicable:</b>	US
<b>Notes:</b>	AMR
<b>Company name:</b>	NEC Corporation
<b>Project:</b>	GSM/AMR-NB
<b>Country of registration:</b>	CA
<b>Application no.:</b>	444239-3
<b>Patent no.:</b>	1197619
<b>Countries applicable:</b>	CA
<b>Notes:</b>	AMR
<b>Company name:</b>	Rockwell Semiconductor Systems
<b>Project:</b>	GSM/AMR-NB
<b>Title:</b>	Delayed decision switched prediction multistage LSF vector quantization
<b>Country of registration:</b>	n/a
<b>Application no.:</b>	n/a
<b>Patent no.:</b>	5774839
<b>Countries applicable:</b>	US
<b>Notes:</b>	AMR
<b>Company name:</b>	Ericsson
<b>Project:</b>	GSM/AMR-NB
<b>Title:</b>	Referring to the SMG11 AMR qualification deliverables documents, AMR-12a, §2.7
<b>Country of registration:</b>	n/a
<b>Notes:</b>	With regard to GSM and UMTS, Ericsson is of the opinion that it has patent(s) and/or pending patent application(s) relating to the AMR proposal. Ericsson is fully prepared to grant licenses to these patents on a fair, reasonable, and non discriminatory basis in accordance with the terms and conditions set forth in Clause 6.1 of the ETSI IPR Policy.

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**Company name:** Rockwell Semiconductor Systems  
**Project:** GSM/AMR-NB  
**Title:** Spike code-excited linear prediction  
**Country of registration:** n/a  
**Application no.:** n/a  
**Patent no.:** 5664054  
**Countries applicable:** US  
**Notes:** AMR

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**Company name:** Alcatel  
**Project:** GSM/AMR-NB  
**Title:** AMR 12b, Document Tdoc SMG11 134/98R2,  
**Country of registration:** n/a  
**ETSI Deliverable:** AMR  
**Notes:** Alcatel declared that they are prepared to grant irrevocable licenses under the IPRs owned by the signatory or its affiliates on terms and conditions which are in accordance with clause 6.1 of the ETSI IPR interim Policy, to the extent that the IPRs are essential for any ETSI standard relating to the AMR Speech Codec proposal.

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**Company name:** Nokia  
**Project:** GSM/AMR-NB  
**Country of registration:** GB  
**Patent no.:** 9605123  
**Countries applicable:** GB  
**Notes:** AMR

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**Company name:** Nokia  
**Project:** GSM/AMR-NB  
**Country of registration:** US  
**Patent no.:** 4969192  
**Countries applicable:** US  
**Notes:** AMR



## GSM/TDMA

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** INITIALIZATION OF COMMUNICATION CHANNEL BETWEEN A SUBSCRIBER STATION AND A BASE STATION IN A SUBSCRIBER COMMUNICATION NETWORK (DUTCH TITLE: HET INITIEREN VAN EEN COMMUNICATIEKANAAL TUSSEN EEN ABONNEES)  
**Country of registration:** NL  
**Patent no.:** 191 869  
**Countries applicable:** NL  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** INITIALIZATION OF COMMUNICATION CHANNEL BETWEEN A SUBSCRIBER STATION AND A BASE STATION IN A SUBSCRIBER COMMUNICATION NETWORK  
**Country of registration:** NZ  
**Patent no.:** 228172  
**Countries applicable:** NZ  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** INITIALIZATION OF COMMUNICATION CHANNEL BETWEEN A SUBSCRIBER STATION AND A BASE STATION IN A SUBSCRIBER COMMUNICATION NETWORK  
**Country of registration:** MY  
**Patent no.:** MY-103830A  
**Countries applicable:** MY  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** INITIALIZATION OF COMMUNICATION CHANNEL BETWEEN A SUBSCRIBER STATION AND A BASE STATION IN A SUBSCRIBER COMMUNICATION NETWORK  
**Country of registration:** AU  
**Patent no.:** 603732  
**Countries applicable:** AU  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** INITIALIZATION OF COMMUNICATION CHANNEL BETWEEN A SUBSCRIBER STATION AND A BASE STATION IN A SUBSCRIBER COMMUNICATION NETWORK  
**Country of registration:** IN  
**Patent no.:** 174843  
**Countries applicable:** IN  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** APPARATUS AND METHOD FOR OBTAINING FREQUENCY AGILITY IN DIGITAL COMMUNICATION SYSTEMS  
**Country of registration:** ZA  
**Patent no.:** 88/8062  
**Countries applicable:** ZA  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** APPARATUS AND METHOD FOR OBTAINING FREQUENCY AGILITY IN DIGITAL COMMUNICATION SYSTEMS  
**Country of registration:** US  
**Patent no.:** 4 785 450  
**Countries applicable:** US  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** APPARATUS AND METHOD FOR OBTAINING FREQUENCY AGILITY IN DIGITAL COMMUNICATION SYSTEMS  
**Country of registration:** TW  
**Patent no.:** 36023  
**Countries applicable:** TW  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** INITIALIZATION OF COMMUNICATION CHANNEL BETWEEN A SUBSCRIBER STATION AND A BASE STATION IN A SUBSCRIBER COMMUNICATION NETWORK (NORWEGIAN TITLE: ABONNENTKOMMUNIKASJONSSYSTEM)  
**Country of registration:** NO  
**Patent no.:** 176,638  
**Countries applicable:** NO  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** INITIALIZATION OF COMMUNICATION CHANNEL BETWEEN A SUBSCRIBER STATION AND A BASE STATION IN A SUBSCRIBER COMMUNICATION NETWORK (NORWEGIAN TITLE: ABONNENTKOMMUNIKASJONSSYSTEM)  
**Country of registration:** NO  
**Patent no.:** 176,637  
**Countries applicable:** NO  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** BASE STATION FOR WIRELESS DIGITAL TELEPHONE SYSTEM  
**Country of registration:** KR  
**Patent no.:** 51 947  
**Countries applicable:** KR  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** INITIALIZATION OF COMMUNICATION CHANNEL BETWEEN A SUBSCRIBER STATION AND A BASE STATION IN A SUBSCRIBER (FRENCH TITLE: DISPOSITIF D'INITIALISATION D'UNE VOIE DE COMMUNICATION ENTRE UN POSTE D'ABONNE E)  
**Country of registration:** FR  
**Patent no.:** 9002732  
**Countries applicable:** FR  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** INITIALIZATION OF COMMUNICATION CHANNEL BETWEEN A SUBSCRIBER STATION AND A BASE STATION IN A SUBSCRIBER (BELGIAN TITLE: DISPOSITIF D'INITIALISATION D'UNE VOIE DE COMMUNICATION ENTRE UN POSTE D'ABONNE)  
**Country of registration:** BE  
**Patent no.:** 9000315  
**Countries applicable:** BE  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** INITIALIZATION OF COMMUNICATION CHANNEL BETWEEN A SUBSCRIBER STATION AND A BASE STATION IN A SUBSCRIBER (DISPOSITIF D'INITIALISATION D'UNE VOIE DE COMMUNICATION ENTRE UN POSTE D'ABONNE ET UNE STATION)  
**Country of registration:** BE  
**Patent no.:** 9000316  
**Countries applicable:** BE  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** INITIALIZATION OF COMMUNICATION CHANNEL BETWEEN A SUBSCRIBER STATION AND A BASE STATION IN A SUBSCRIBER COMMUNICATION NETWORK (BELGIAN TITLE: DISPOSITIF D'INITIALISATION D'UNE VOIE DE COMMUNICATION EN)  
**Country of registration:** BE  
**Patent no.:** 8900242  
**Countries applicable:** BE  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

<b>Company name:</b>	InterDigital Technology Corp.
<b>Project:</b>	GSM/TDMA
<b>Title:</b>	INITIALIZATION OF COMMUNICATION CHANNEL BETWEEN A SUBSCRIBER STATION AND A BASE STATION IN A SUBSCRIBER (BRAZILIAN TITLE: SISTEMA DE COMUNICACAO DE ASSINANTES) COMMUNICATION NETWORK
<b>Country of registration:</b>	BR
<b>Patent no.:</b>	PI89010302
<b>Countries applicable:</b>	BR
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	InterDigital Technology Corp.
<b>Project:</b>	GSM/TDMA
<b>Title:</b>	INITIALIZATION OF COMMUNICATION CHANNEL BETWEEN A SUBSCRIBER STATION AND A BASE STATION IN A SUBSCRIBER COMMUNICATION NETWORK
<b>Country of registration:</b>	CA
<b>Patent no.:</b>	1 288 823
<b>Countries applicable:</b>	CA
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	InterDigital Technology Corp.
<b>Project:</b>	GSM/TDMA
<b>Title:</b>	INITIALIZATION OF COMMUNICATION CHANNEL BETWEEN A SUBSCRIBER STATION AND A BASE STATION IN A SUBSCRIBER COMMUNICATION NETWORK (SPANISH TITLE: SISTEMA DE COMUNICACION DE ABONADOS)
<b>Country of registration:</b>	ES
<b>Patent no.:</b>	8900774/3
<b>Countries applicable:</b>	ES
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	InterDigital Technology Corp.
<b>Project:</b>	GSM/TDMA
<b>Title:</b>	INITIALIZATION OF COMMUNICATION CHANNEL BETWEEN A SUBSCRIBER STATION AND A BASE STATION IN A SUBSCRIBER COMMUNICATION NETWORK
<b>Country of registration:</b>	JP
<b>Patent no.:</b>	2711333
<b>Countries applicable:</b>	JP
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	InterDigital Technology Corp.
<b>Project:</b>	GSM/TDMA
<b>Title:</b>	INITIALIZATION OF COMMUNICATION CHANNEL BETWEEN A SUBSCRIBER STATION AND A BASE STATION IN A SUBSCRIBER COMMUNICATION NETWORK
<b>Country of registration:</b>	FI
<b>Patent no.:</b>	98425
<b>Countries applicable:</b>	FI
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

<b>Company name:</b>	InterDigital Technology Corp.
<b>Project:</b>	GSM/TDMA
<b>Title:</b>	INITIALIZATION OF COMMUNICATION CHANNEL BETWEEN A SUBSCRIBER STATION AND A BASE STATION IN A SUBSCRIBER COMMUNICATION NETWORK (MEXICAN TITLE: INICIALIZACION DE CANAL DE COMUNICACION ENTRE UNA ESTACION)
<b>Country of registration:</b>	MX
<b>Patent no.:</b>	169 911
<b>Countries applicable:</b>	MX
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	InterDigital Technology Corp.
<b>Project:</b>	GSM/TDMA
<b>Title:</b>	INITIALIZATION OF COMMUNICATION CHANNEL BETWEEN A SUBSCRIBER STATION AND A BASE STATION IN A SUBSCRIBER (FRENCH TITLE: DISPOSITIF D'INITIALISATION D'UNE VOIE DE COMMUNICATION ENTRE UN POSTE D'ABONNE E)
<b>Country of registration:</b>	FR
<b>Patent no.:</b>	90 02733
<b>Countries applicable:</b>	FR
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	InterDigital Technology Corp.
<b>Project:</b>	GSM/TDMA
<b>Title:</b>	INITIALIZATION OF COMMUNICATION CHANNEL BETWEEN A SUBSCRIBER STATION AND A BASE STATION IN A SUBSCRIBER (FRENCH TITLE: DISPOSITIF D'INITIALISATION D'UNE VOIE DE COMMUNICATION ENTRE UN POSTE D'ABONNE E)
<b>Country of registration:</b>	FR
<b>Patent no.:</b>	89 02811
<b>Countries applicable:</b>	FR
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	InterDigital Technology Corp.
<b>Project:</b>	GSM/TDMA
<b>Title:</b>	INITIALIZATION OF COMMUNICATION CHANNEL BETWEEN A SUBSCRIBER STATION AND A BASE STATION IN A SUBSCRIBER COMMUNICATION NETWORK (INDONESIAN TITLE: PERMULAAN DARI SALURAN KOMUNIKASI ANTARA SUATU STASION)
<b>Country of registration:</b>	ID
<b>Patent no.:</b>	ID0001927
<b>Countries applicable:</b>	ID
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	InterDigital Technology Corp.
<b>Project:</b>	GSM/TDMA
<b>Title:</b>	INITIALIZATION OF COMMUNICATION CHANNEL BETWEEN A SUBSCRIBER STATION AND A BASE STATION IN A SUBSCRIBER COMMUNICATION NETWORK
<b>Country of registration:</b>	IL
<b>Patent no.:</b>	89428
<b>Countries applicable:</b>	IL
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

<b>Company name:</b>	InterDigital Technology Corp.
<b>Project:</b>	GSM/TDMA
<b>Title:</b>	INITIALIZATION OF COMMUNICATION CHANNEL BETWEEN A SUBSCRIBER STATION AND A BASE STATION IN A SUBSCRIBER COMMUNICATION NETWORK (ITALIAN TITLE: SISTEMA DI COMUNICAZIONE CON INIZIALIZZAZIONE DI CANALE DI)
<b>Country of registration:</b>	IT
<b>Patent no.:</b>	1231180
<b>Countries applicable:</b>	IT
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	InterDigital Technology Corp.
<b>Project:</b>	GSM/TDMA
<b>Title:</b>	INITIALIZATION OF COMMUNICATION CHANNEL BETWEEN A SUBSCRIBER STATION AND A BASE STATION IN A SUBSCRIBER COMMUNICATION NETWORK
<b>Country of registration:</b>	KR
<b>Patent no.:</b>	53 566
<b>Countries applicable:</b>	KR
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	InterDigital Technology Corp.
<b>Project:</b>	GSM/TDMA
<b>Title:</b>	INITIALIZATION OF COMMUNICATION CHANNEL BETWEEN A SUBSCRIBER STATION AND A BASE STATION IN A SUBSCRIBER COMMUNICATION NETWORK
<b>Country of registration:</b>	FI
<b>Patent no.:</b>	100843
<b>Countries applicable:</b>	FI
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	InterDigital Technology Corp.
<b>Project:</b>	GSM/TDMA
<b>Title:</b>	BASE STATION FOR WIRELESS DIGITAL TELEPHONE SYSTEM
<b>Country of registration:</b>	JP
<b>Patent no.:</b>	2979319
<b>Countries applicable:</b>	JP
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	InterDigital Technology Corp.
<b>Project:</b>	GSM/TDMA
<b>Title:</b>	BASE STATION FOR WIRELESS DIGITAL TELEPHONE SYSTEM (DANISH TITLE: GRUNDSTATION TIL DIGITALT RADIOTELEFONSYSTEM)
<b>Country of registration:</b>	DK
<b>Patent no.:</b>	172084
<b>Countries applicable:</b>	DK
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** BASE STATION FOR WIRELESS DIGITAL TELEPHONE SYSTEM (SPANISH TITLE: CENTRAL DE BASE PARA SISTEMA TELEFONICO DIGITAL INALAMBRICO)  
**Country of registration:** ES  
**Patent no.:** 8800957  
**Countries applicable:** ES  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** BASE STATION FOR WIRELESS DIGITAL TELEPHONE SYSTEM  
**Country of registration:** FI  
**Patent no.:** 98430  
**Countries applicable:** FI  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** BASE STATION FOR WIRELESS DIGITAL TELEPHONE SYSTEM (FRENCH TITLE: STATION DE BASE POUR SYSTEME TELEPHONIQUE SANS FIL)  
**Country of registration:** FR  
**Patent no.:** 88 04299  
**Countries applicable:** FR  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** BASE STATION FOR WIRELESS DIGITAL TELEPHONE SYSTEM  
**Country of registration:** GB  
**Patent no.:** 2208774  
**Countries applicable:** GB  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** BASE STATION FOR WIRELESS DIGITAL TELEPHONE SYSTEM  
**Country of registration:** HK  
**Patent no.:** 834/1994  
**Countries applicable:** HK  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** BASE STATION FOR WIRELESS DIGITAL TELEPHONE SYSTEM  
**Country of registration:** ID  
**Patent no.:** ID0001825  
**Countries applicable:** ID  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** BASE STATION FOR WIRELESS DIGITAL TELEPHONE SYSTEM (ITALIAN TITLE: STAZIONE BASE PER SISTEMA TELEFONICO DIGITALE SENZA FILI)  
**Country of registration:** IT  
**Patent no.:** 1219926  
**Countries applicable:** IT  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** BASE STATION FOR WIRELESS DIGITAL TELEPHONE SYSTEM  
**Country of registration:** IN  
**Patent no.:** 178383  
**Countries applicable:** IN  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** BASE STATION FOR WIRELESS DIGITAL TELEPHONE SYSTEM  
**Country of registration:** CA  
**Patent no.:** 1 339 158  
**Countries applicable:** CA  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** BASE STATION FOR WIRELESS DIGITAL TELEPHONE SYSTEM (MEXICAN TITLE: ESTACION BASE PARA UN SISTEMA TELEFONICO DIGITAL INALAMBRICO)  
**Country of registration:** MX  
**Patent no.:** 171,366  
**Countries applicable:** MX  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** BASE STATION FOR WIRELESS DIGITAL TELEPHONE SYSTEM  
**Country of registration:** MY  
**Patent no.:** MY-100488A  
**Countries applicable:** MY  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.



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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** BASE STATION FOR WIRELESS DIGITAL TELEPHONE SYSTEM (DUTCH TITLE: BASISSTATION VOOR EEN DRAADLOOS DIGITAAL TELEFOONSTELSEL)  
**Country of registration:** NL  
**Patent no.:** 193162  
**Countries applicable:** NL  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** BASE STATION FOR WIRELESS DIGITAL TELEPHONE SYSTEM  
**Country of registration:** US  
**Patent no.:** 4 777 633  
**Countries applicable:** US  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** BASE STATION FOR WIRELESS DIGITAL TELEPHONE SYSTEM  
**Country of registration:** ZA  
**Patent no.:** 88/5961  
**Countries applicable:** ZA  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** SUBSCRIBER RF TELEPHONE SYSTEM FOR PROVIDING MULTIPLE SPEECH AND/OR DATA SIGNALS SIMULTANEOUSLY OVER EITHER A SINGLE OR A PLURALITY OF RF CHANNELS  
**Country of registration:** TW  
**Patent no.:** 74105869  
**Countries applicable:** TW  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** APPARATUS AND METHOD FOR OBTAINING FREQUENCY AGILITY IN DIGITAL COMMUNICATION SYSTEMS  
**Country of registration:** SG  
**Patent no.:** 9692130-9  
**Countries applicable:** SG  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** BASE STATION FOR WIRELESS DIGITAL TELEPHONE SYSTEM  
**Country of registration:** IL  
**Patent no.:** 85678  
**Countries applicable:** IL  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** BASE STATION FOR WIRELESS DIGITAL TELEPHONE SYSTEM  
**Country of registration:** TW  
**Patent no.:** 31631  
**Countries applicable:** TW  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** INITIALIZATION OF COMMUNICATION CHANNEL BETWEEN A SUBSCRIBER STATION AND A BASE STATION IN A SUBSCRIBER COMMUNICATION NETWORK (SWEDISH TITLE: SYNKRONISERING AV BASSTATION OCH ABONNENTSTATION I ETT ABO)  
**Country of registration:** SE  
**Patent no.:** 9001262-6  
**Countries applicable:** SE  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** INITIALIZATION OF COMMUNICATION CHANNEL BETWEEN A SUBSCRIBER STATION AND A BASE STATION IN A SUBSCRIBER COMMUNICATION NETWORK (SWEDISH TITLE: ABONNENTKOMMUNIKATIONSSYSTEM)  
**Country of registration:** SE  
**Patent no.:** 8900642-3  
**Countries applicable:** SE  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** INITIALIZATION OF COMMUNICATION CHANNEL BETWEEN A SUBSCRIBER STATION AND A BASE STATION IN A SUBSCRIBER COMMUNICATION NETWORK  
**Country of registration:** RU  
**Patent no.:** 2038699  
**Countries applicable:** RU  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** INITIALIZATION OF COMMUNICATION CHANNEL BETWEEN A SUBSCRIBER STATION AND A BASE STATION IN A SUBSCRIBER COMMUNICATION NETWORK  
**Country of registration:** TW  
**Patent no.:** 36534  
**Countries applicable:** TW  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** INITIALIZATION OF COMMUNICATION CHANNEL BETWEEN A SUBSCRIBER STATION AND A BASE STATION IN A SUBSCRIBER COMMUNICATION SYSTEM  
**Country of registration:** US  
**Patent no.:** 4 811 420  
**Countries applicable:** US  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** INITIALIZATION OF COMMUNICATION CHANNEL BETWEEN A SUBSCRIBER STATION AND A BASE STATION IN A SUBSCRIBER COMMUNICATION NETWORK  
**Country of registration:** ZA  
**Patent no.:** 89/1609  
**Countries applicable:** ZA  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** BASE STATION FOR WIRELESS DIGITAL TELEPHONE SYSTEM  
**Country of registration:** NO  
**Patent no.:** 175559  
**Countries applicable:** NO  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** BASE STATION FOR WIRELESS DIGITAL TELEPHONE SYSTEM  
**Country of registration:** DE  
**Patent no.:** P 38 12611  
**Countries applicable:** DE  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** BASE STATION FOR WIRELESS DIGITAL TELEPHONE SYSTEM  
**Country of registration:** RU  
**Patent no.:** 2003229  
**Countries applicable:** RU  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** BASE STATION FOR WIRELESS DIGITAL TELEPHONE SYSTEM  
**Country of registration:** CN  
**Patent no.:** 10 469  
**Countries applicable:** CN  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** BASE STATION FOR WIRELESS DIGITAL TELEPHONE SYSTEM  
**Country of registration:** UA  
**Patent no.:** 27687  
**Countries applicable:** UA  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** BASE STATION FOR WIRELESS DIGITAL TELEPHONE SYSTEM  
**Country of registration:** AU  
**Patent no.:** 585 748  
**Countries applicable:** AU  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** BASE STATION FOR WIRELESS DIGITAL TELEPHONE SYSTEM  
**Country of registration:** AZ  
**Patent no.:** i20000075  
**Countries applicable:** AZ  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** BASE STATION FOR WIRELESS DIGITAL TELEPHONE SYSTEM (BELGIAN TITLE: STATION DE BASE POUR SYSTEME TELEPHONIQUE NUMERIQUE SANS FIL.)  
**Country of registration:** BE  
**Patent no.:** 8800372  
**Countries applicable:** BE  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** BASE STATION FOR WIRELESS DIGITAL TELEPHONE SYSTEM (BRAZILIAN TITLE: ESTACAO DE BASE EM UMA REDE DE COMUNICACAO DE ASSINANTES PARA COMUNICAR ENTRE AS ESTACOES DE ASSINANTE E UMA REDE EXTERNA)  
**Country of registration:** BR  
**Patent no.:** PI8801530  
**Countries applicable:** BR  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** BASE STATION FOR WIRELESS DIGITAL TELEPHONE SYSTEM  
**Country of registration:** BY  
**Patent no.:** 1154  
**Countries applicable:** BY  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** CONNECTION OF SUBSCRIBER COMMUNICATION NETWORK BASE STATION TO EXTERNAL INFORMATION NETWORK  
**Country of registration:** CA  
**Patent no.:** 1 339 157  
**Countries applicable:** CA  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** INITIALIZATION OF COMMUNICATION CHANNEL BETWEEN A SUBSCRIBER STATION AND A BASE STATION IN A SUBSCRIBER COMMUNICATION NETWORK (PORTUGUESE TITLE: INICIALIZACAO DE UM CANAL DE COMUNICACAO ENTRE UM POSTO)  
**Country of registration:** PT  
**Patent no.:** 89 897  
**Countries applicable:** PT  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** BASE STATION FOR WIRELESS DIGITAL TELEPHONE SYSTEM (PORTUGUESE TITLE: ESTACAO DE BASE PARA SISTEMAS TELEFONICO DIGITAL POR VIA RADIOELECTRICA)  
**Country of registration:** PT  
**Patent no.:** 87283  
**Countries applicable:** PT  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** SUBSCRIBER RF TELEPHONE SYSTEM FOR PROVIDING MULTIPLE SPEECH AND/OR DATA SIGNALS SIMULTANEOUSLY OVER EITHER A SINGLE OR A PLURALITY OF RF CHANNELS  
**Country of registration:** SG  
**Patent no.:** 8990649,9  
**Countries applicable:** SG  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** SUBSCRIBER RF TELEPHONE SYSTEM FOR PROVIDING MULTIPLE SPEECH AND/OR DATA SIGNALS SIMULTANEOUSLY OVER EITHER A SINGLE OR A PLURALITY OF RF CHANNELS  
**Country of registration:** US  
**Patent no.:** 5 022 024  
**Countries applicable:** US  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** SUBSCRIBER RF TELEPHONE SYSTEM FOR PROVIDING MULTIPLE SPEECH AND/OR DATA SIGNALS SIMULTANEOUSLY OVER EITHER A SINGLE OR A PLURALITY OF RF CHANNELS  
**Country of registration:** KR  
**Patent no.:** 40230  
**Countries applicable:** KR  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** SUBSCRIBER RF TELEPHONE SYSTEM FOR PROVIDING MULTIPLE SPEECH AND/OR DATA SIGNALS SIMULTANEOUSLY OVER EITHER A SINGLE OR A PLURALITY OF RF CHANNELS  
**Country of registration:** MX  
**Patent no.:** 162,175  
**Countries applicable:** MX  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** CONNECTION OF SUBSCRIBER COMMUNICATION NETWORK BASE STATION TO EXTERNAL INFORMATION NETWORK  
**Country of registration:** US  
**Patent no.:** 4 779 262  
**Countries applicable:** US  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

<b>Company name:</b>	InterDigital Technology Corp.
<b>Project:</b>	GSM/TDMA
<b>Title:</b>	SUBSCRIBER RF TELEPHONE SYSTEM FOR PROVIDING MULTIPLE SPEECH AND/OR DATA SIGNALS SIMULTANEOUSLY OVER EITHER A SINGLE OR A PLURALITY OF RF CHANNELS
<b>Country of registration:</b>	US
<b>Patent no.:</b>	4 817 089
<b>Countries applicable:</b>	US
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	InterDigital Technology Corp.
<b>Project:</b>	GSM/TDMA
<b>Title:</b>	APPARATUS AND METHOD FOR OBTAINING FREQUENCY AGILITY IN DIGITAL COMMUNICATION SYSTEMS (SWEDISH TITLE: SATT OCH ANORDNING FOR ASTADKOMMANDE AV FREKVENSRORLIGHET I DIGITALA KOMMUNIKATIONSSYSTEM)
<b>Country of registration:</b>	SE
<b>Patent no.:</b>	8803823-7
<b>Countries applicable:</b>	SE
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	InterDigital Technology Corp.
<b>Project:</b>	GSM/TDMA
<b>Title:</b>	SUBSCRIBER RF TELEPHONE SYSTEM FOR PROVIDING MULTIPLE SPEECH AND/OR DATA SIGNALS SIMULTANEOUSLY OVER EITHER A SINGLE OR A PLURALITY OF RF CHANNELS
<b>Country of registration:</b>	MY
<b>Patent no.:</b>	MY-102335A
<b>Countries applicable:</b>	MY
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	InterDigital Technology Corp.
<b>Project:</b>	GSM/TDMA
<b>Title:</b>	SUBSCRIBER RF TELEPHONE SYSTEM FOR PROVIDING MULTIPLE SPEECH AND/OR DATA SIGNALS SIMULTANEOUSLY OVER EITHER A SINGLE OR A PLURALITY OF RF CHANNELS
<b>Country of registration:</b>	MY
<b>Patent no.:</b>	MY100722A
<b>Countries applicable:</b>	MY
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	InterDigital Technology Corp.
<b>Project:</b>	GSM/TDMA
<b>Title:</b>	SUBSCRIBER RF TELEPHONE SYSTEM FOR PROVIDING MULTIPLE SPEECH AND/OR DATA SIGNALS SIMULTANEOUSLY OVER EITHER A SINGLE OR A PLURALITY OF RF CHANNELS (NORWEGIAN TITLE: MODEM FOR TELEFONSYSTEMER, ELLER AB)
<b>Country of registration:</b>	NO
<b>Patent no.:</b>	304090
<b>Countries applicable:</b>	NO
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** SUBSCRIBER RF TELEPHONE SYSTEM FOR PROVIDING MULTIPLE SPEECH AND/OR DATA SIGNALS SIMULTANEOUSLY OVER EITHER A SINGLE OR A PLURALITY OF RF CHANNELS  
**Country of registration:** NO  
**Patent no.:** 308879  
**Countries applicable:** NO  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** SUBSCRIBER RF TELEPHONE SYSTEM FOR PROVIDING MULTIPLE SPEECH AND/OR DATA SIGNALS SIMULTANEOUSLY OVER EITHER A SINGLE OR A PLURALITY OF RF CHANNELS  
**Country of registration:** JP  
**Patent no.:** 2816349  
**Countries applicable:** JP  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** SUBSCRIBER RF TELEPHONE SYSTEM FOR PROVIDING MULTIPLE SPEECH AND/OR DATA SIGNALS SIMULTANEOUSLY OVER EITHER A SINGLE OR A PLURALITY OF RF CHANNELS  
**Country of registration:** PT  
**Patent no.:** 85,136  
**Countries applicable:** PT  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** SUBSCRIBER RF TELEPHONE SYSTEM FOR PROVIDING MULTIPLE SPEECH AND/OR DATA SIGNALS SIMULTANEOUSLY OVER EITHER A SINGLE OR A PLURALITY OF RF CHANNELS  
**Country of registration:** IT  
**Patent no.:** 1191300  
**Countries applicable:** IT  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** SUBSCRIBER RF TELEPHONE SYSTEM FOR PROVIDING MULTIPLE SPEECH AND/OR DATA SIGNALS SIMULTANEOUSLY OVER EITHER A SINGLE OR A PLURALITY OF RF CHANNELS  
**Country of registration:** TW  
**Patent no.:** NI-30412  
**Countries applicable:** TW  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.



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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** SUBSCRIBER RF TELEPHONE SYSTEM FOR PROVIDING MULTIPLE SPEECH AND/OR DATA SIGNALS SIMULTANEOUSLY OVER EITHER A SINGLE OR A PLURALITY OF RF CHANNELS  
**Country of registration:** US  
**Patent no.:** 4 675 863  
**Countries applicable:** US  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** SUBSCRIBER RF TELEPHONE SYSTEM FOR PROVIDING MULTIPLE SPEECH AND/OR DATA SIGNALS SIMULTANEOUSLY OVER EITHER A SINGLE OR A PLURALITY OF RF CHANNELS  
**Country of registration:** US  
**Patent no.:** 6 014374  
**Countries applicable:** US  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** SUBSCRIBER RF TELEPHONE SYSTEM FOR PROVIDING MULTIPLE SPEECH AND/OR DATA SIGNALS SIMULTANEOUSLY OVER EITHER A SINGLE OR A PLURALITY OF RF CHANNELS  
**Country of registration:** US  
**Patent no.:** 5 734 678  
**Countries applicable:** US  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** SUBSCRIBER RF TELEPHONE SYSTEM FOR PROVIDING MULTIPLE SPEECH AND/OR DATA SIGNALS SIMULTANEOUSLY OVER EITHER A SINGLE OR A PLURALITY OF RF CHANNELS  
**Country of registration:** US  
**Patent no.:** 5 657 358  
**Countries applicable:** US  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** SUBSCRIBER RF TELEPHONE SYSTEM FOR PROVIDING MULTIPLE SPEECH AND/OR DATA SIGNALS SIMULTANEOUSLY OVER EITHER A SINGLE OR A PLURALITY OF RF CHANNELS  
**Country of registration:** US  
**Patent no.:** 5 687 194  
**Countries applicable:** US  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** SUBSCRIBER RF TELEPHONE SYSTEM FOR PROVIDING MULTIPLE SPEECH AND/OR DATA SIGNALS SIMULTANEOUSLY OVER EITHER A SINGLE OR A PLURALITY OF RF CHANNELS  
**Country of registration:** US  
**Patent no.:** 5 119 375  
**Countries applicable:** US  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** SUBSCRIBER RF TELEPHONE SYSTEM FOR PROVIDING MULTIPLE SPEECH AND/OR DATA SIGNALS SIMULTANEOUSLY OVER EITHER A SINGLE OR A PLURALITY OF RF CHANNELS  
**Country of registration:** US  
**Patent no.:** 5 022 024  
**Countries applicable:** US  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** SUBSCRIBER RF TELEPHONE SYSTEM FOR PROVIDING MULTIPLE SPEECH AND/OR DATA SIGNALS SIMULTANEOUSLY OVER EITHER A SINGLE OR A PLURALITY OF RF CHANNELS  
**Country of registration:** US  
**Patent no.:** 4 912 705  
**Countries applicable:** US  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** SUBSCRIBER RF TELEPHONE SYSTEM FOR PROVIDING MULTIPLE SPEECH AND/OR DATA SIGNALS SIMULTANEOUSLY OVER EITHER A SINGLE OR A PLURALITY OF RF CHANNELS  
**Country of registration:** US  
**Patent no.:** B14817089,  
**Countries applicable:** US  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** SUBSCRIBER RF TELEPHONE SYSTEM FOR PROVIDING MULTIPLE SPEECH AND/OR DATA SIGNALS SIMULTANEOUSLY OVER EITHER A SINGLE OR A PLURALITY OF RF CHANNELS  
**Country of registration:** US  
**Patent no.:** 5 121 391  
**Countries applicable:** US  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** SUBSCRIBER RF TELEPHONE SYSTEM FOR PROVIDING MULTIPLE SPEECH AND/OR DATA SIGNALS SIMULTANEOUSLY OVER EITHER A SINGLE OR A PLURALITY OF RF CHANNELS  
**Country of registration:** AU  
**Patent no.:** 595139  
**Countries applicable:** AU  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** SUBSCRIBER RF TELEPHONE SYSTEM FOR PROVIDING MULTIPLE SPEECH AND/OR DATA SIGNALS SIMULTANEOUSLY OVER EITHER A SINGLE OR A PLURALITY OF RF CHANNELS  
**Country of registration:** ES  
**Patent no.:** 557.496/X  
**Countries applicable:** ES  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** SUBSCRIBER RF TELEPHONE SYSTEM FOR PROVIDING MULTIPLE SPEECH AND/OR DATA SIGNALS SIMULTANEOUSLY OVER EITHER A SINGLE OR A PLURALITY OF RF CHANNELS  
**Country of registration:** BE  
**Patent no.:** 904 065  
**Countries applicable:** BE  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** SUBSCRIBER RF TELEPHONE SYSTEM FOR PROVIDING MULTIPLE SPEECH AND/OR DATA SIGNALS SIMULTANEOUSLY OVER EITHER A SINGLE OR A PLURALITY OF RF CHANNELS  
**Country of registration:** BR  
**Patent no.:** PI 8505598  
**Countries applicable:** BR  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** SUBSCRIBER RF TELEPHONE SYSTEM FOR PROVIDING MULTIPLE SPEECH AND/OR DATA SIGNALS SIMULTANEOUSLY OVER EITHER A SINGLE OR A PLURALITY OF RF CHANNELS  
**Country of registration:** CA  
**Patent no.:** 1 250 673  
**Countries applicable:** CA  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** SYSTEM. (SUBSCRIBER RF TELEPHONE SYSTEM FOR PROVIDING MULTIPLE SPEECH AND/OR DATA SIGNALS SIMULTANEOUSLY OVER EITHER A SINGLE OR A PLURALITY OF RF CHANNELS.)  
**Country of registration:** CA  
**Patent no.:** 1 307 064  
**Countries applicable:** CA  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** SUBSCRIBER RF TELEPHONE SYSTEM FOR PROVIDING MULTIPLE SPEECH AND/OR DATA SIGNALS SIMULTANEOUSLY OVER EITHER A SINGLE OR A PLURALITY OF RF CHANNELS  
**Country of registration:** CH  
**Patent no.:** 675333  
**Countries applicable:** CH  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** SUBSCRIBER RF TELEPHONE SYSTEM FOR PROVIDING MULTIPLE SPEECH AND/OR DATA SIGNALS SIMULTANEOUSLY OVER EITHER A SINGLE OR A PLURALITY OF RF CHANNELS  
**Country of registration:** CL  
**Patent no.:** 36,08  
**Countries applicable:** CL  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** SUBSCRIBER RF TELEPHONE SYSTEM FOR PROVIDING MULTIPLE SPEECH AND/OR DATA SIGNALS SIMULTANEOUSLY OVER EITHER A SINGLE OR A PLURALITY OF RF CHANNELS  
**Country of registration:** AU  
**Patent no.:** 576627  
**Countries applicable:** AU  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** SUBSCRIBER RF TELEPHONE SYSTEM FOR PROVIDING MULTIPLE SPEECH AND/OR DATA SIGNALS SIMULTANEOUSLY OVER EITHER A SINGLE OR A PLURALITY OF RF CHANNELS  
**Country of registration:** AT  
**Patent no.:** 404202  
**Countries applicable:** AT  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** SUBSCRIBER RF TELEPHONE SYSTEM FOR PROVIDING MULTIPLE SPEECH AND/OR DATA SIGNALS SIMULTANEOUSLY OVER EITHER A SINGLE OR A PLURALITY OF RF CHANNELS (ARGENTINEAN TITLE - DISPOSICION TELEFONICA DE RF PAR)

**Country of registration:** AR  
**Patent no.:** 241429  
**Countries applicable:** AR  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** SUBSCRIBER RF TELEPHONE SYSTEM FOR PROVIDING MULTIPLE SPEECH AND/OR DATA SIGNALS SIMULTANEOUSLY OVER EITHER A SINGLE OR A PLURALITY OF RF CHANNELS (CHILEAN TITLE - SISTEMA DE COMUNICACION DIGITAL ENTR)

**Country of registration:** CL  
**Patent no.:** 37,738  
**Countries applicable:** CL  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** SUBSCRIBER RF TELEPHONE SYSTEM FOR PROVIDING MULTIPLE SPEECH AND/OR DATA SIGNALS SIMULTANEOUSLY OVER EITHER A SINGLE OR A PLURALITY OF RF CHANNELS

**Country of registration:** JP  
**Patent no.:** 2979064  
**Countries applicable:** JP  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** SUBSCRIBER RF TELEPHONE SYSTEM FOR PROVIDING MULTIPLE SPEECH AND/OR DATA SIGNALS SIMULTANEOUSLY OVER EITHER A SINGLE OR A PLURALITY OF RF CHANNELS

**Country of registration:** DE  
**Patent no.:** 3645360  
**Countries applicable:** DE  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** SUBSCRIBER RF TELEPHONE SYSTEM FOR PROVIDING MULTIPLE SPEECH AND/OR DATA SIGNALS SIMULTANEOUSLY OVER EITHER A SINGLE OR A PLURALITY OF RF CHANNELS

**Country of registration:** SE  
**Patent no.:** 8504662-1  
**Countries applicable:** SE  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** SUBSCRIBER RF TELEPHONE SYSTEM FOR PROVIDING MULTIPLE SPEECH AND/OR DATA SIGNALS SIMULTANEOUSLY OVER EITHER A SINGLE OR A PLURALITY OF RF CHANNELS  
**Country of registration:** ES  
**Patent no.:** 548.366/2  
**Countries applicable:** ES  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** SUBSCRIBER RF TELEPHONE SYSTEM FOR PROVIDING MULTIPLE SPEECH AND/OR DATA SIGNALS SIMULTANEOUSLY OVER EITHER A SINGLE OR A PLURALITY OF RF CHANNELS  
**Country of registration:** ES  
**Patent no.:** 8803594/8  
**Countries applicable:** ES  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** SUBSCRIBER RF TELEPHONE SYSTEM FOR PROVIDING MULTIPLE SPEECH AND/OR DATA SIGNALS SIMULTANEOUSLY OVER EITHER A SINGLE OR A PLURALITY OF RF CHANNELS  
**Country of registration:** ES  
**Patent no.:** 8903349  
**Countries applicable:** ES  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** SUBSCRIBER RF TELEPHONE SYSTEM FOR PROVIDING MULTIPLE SPEECH AND/OR DATA SIGNALS SIMULTANEOUSLY OVER EITHER A SINGLE OR A PLURALITY OF RF CHANNELS  
**Country of registration:** FI  
**Patent no.:** 104676  
**Countries applicable:** FI  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** SUBSCRIBER RF TELEPHONE SYSTEM FOR PROVIDING MULTIPLE SPEECH AND/OR DATA SIGNALS SIMULTANEOUSLY OVER EITHER A SINGLE OR A PLURALITY OF RF CHANNELS  
**Country of registration:** FR  
**Patent no.:** 8600440  
**Countries applicable:** FR  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** SUBSCRIBER RF TELEPHONE SYSTEM FOR PROVIDING MULTIPLE SPEECH AND/OR DATA SIGNALS SIMULTANEOUSLY OVER EITHER A SINGLE OR A PLURALITY OF RF CHANNELS  
**Country of registration:** GB  
**Patent no.:** 2174571  
**Countries applicable:** GB  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** SUBSCRIBER RF TELEPHONE SYSTEM FOR PROVIDING MULTIPLE SPEECH AND/OR DATA SIGNALS SIMULTANEOUSLY OVER EITHER A SINGLE OR A PLURALITY OF RF CHANNELS  
**Country of registration:** GR  
**Patent no.:** 870966  
**Countries applicable:** GR  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** SUBSCRIBER RF TELEPHONE SYSTEM FOR PROVIDING MULTIPLE SPEECH AND/OR DATA SIGNALS SIMULTANEOUSLY OVER EITHER A SINGLE OR A PLURALITY OF RF CHANNELS  
**Country of registration:** GR  
**Patent no.:** 1000657  
**Countries applicable:** GR  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** SUBSCRIBER RF TELEPHONE SYSTEM FOR PROVIDING MULTIPLE SPEECH AND/OR DATA SIGNALS SIMULTANEOUSLY OVER EITHER A SINGLE OR A PLURALITY OF RF CHANNELS  
**Country of registration:** HK  
**Patent no.:** Mar-90  
**Countries applicable:** HK  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** SUBSCRIBER RF TELEPHONE SYSTEM FOR PROVIDING MULTIPLE SPEECH AND/OR DATA SIGNALS SIMULTANEOUSLY OVER EITHER A SINGLE OR A PLURALITY OF RF CHANNELS  
**Country of registration:** IR  
**Patent no.:** 56780  
**Countries applicable:** IR  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** SUBSCRIBER RF TELEPHONE SYSTEM FOR PROVIDING MULTIPLE SPEECH AND/OR DATA SIGNALS SIMULTANEOUSLY OVER EITHER A SINGLE OR A PLURALITY OF RF CHANNELS  
**Country of registration:** IL  
**Patent no.:** 76618  
**Countries applicable:** IL  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** SUBSCRIBER RF TELEPHONE SYSTEM FOR PROVIDING MULTIPLE SPEECH AND/OR DATA SIGNALS SIMULTANEOUSLY OVER EITHER A SINGLE OR A PLURALITY OF RF CHANNELS  
**Country of registration:** DE  
**Patent no.:** 3609395  
**Countries applicable:** DE  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** APPARATUS AND METHOD FOR OBTAINING FREQUENCY AGILITY IN DIGITAL COMMUNICATION SYSTEMS  
**Country of registration:** KR  
**Patent no.:** 51 471  
**Countries applicable:** KR  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** APPARATUS AND METHOD FOR OBTAINING FREQUENCY AGILITY IN DIGITAL COMMUNICATION SYSTEMS  
**Country of registration:** CN  
**Patent no.:** 11478  
**Countries applicable:** CN  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** APPARATUS AND METHOD FOR OBTAINING FREQUENCY AGILITY IN DIGITAL COMMUNICATION SYSTEMS (BRAZILIAN TITLE: SISTEMA DE COMUNICACAO E PROCESSO DE DESIGNAR RANHURAS OU PONTOS DE TEMP E CANAIS DE FREQUENCIA)  
**Country of registration:** BR  
**Patent no.:** 8805901-4  
**Countries applicable:** BR  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.



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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** APPARATUS AND METHOD FOR OBTAINING FREQUENCY AGILITY IN DIGITAL COMMUNICATION SYSTEMS (BELGIAN TITLE: DISPOSITIF ET PROCEDE POUR OBTENIR DE LA SOUPLESSE EN MATIERE DE FREQUENCE DANS DES SYSTEMES DE CO  
**Country of registration:** BE  
**Patent no.:** 8801283  
**Countries applicable:** BE  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** APPARATUS AND METHOD FOR OBTAINING FREQUENCY AGILITY IN DIGITAL COMMUNICATION SYSTEMS  
**Country of registration:** FI  
**Patent no.:** 98691  
**Countries applicable:** FI  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** APPARATUS AND METHOD FOR OBTAINING FREQUENCY AGILITY IN DIGITAL COMMUNICATION SYSTEMS (FRENCH TITLE: DISPOSITIF ET PROCEDE POUR OBTENIR DE LA SOUPLESSE EN MATIERE DE FREQUENCE DANS DES SYSTEMES DE COM)  
**Country of registration:** FR  
**Patent no.:** 8814617  
**Countries applicable:** FR  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** APPARATUS AND METHOD FOR OBTAINING FREQUENCY AGILITY IN TIME DIVISION MULTIPLE ACCESS SYSTEMS  
**Country of registration:** GB  
**Patent no.:** 2224414  
**Countries applicable:** GB  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** APPARATUS AND METHOD FOR OBTAINING FREQUENCY AGILITY IN DIGITAL COMMUNICATION SYSTEMS (INDONESIAN TITLE: APARAT DAN METODA UNTUK MEMPEROLEH FREKWENSI KETANGKASAN DALAM SISTEM KOMUNIKASI DIGITAL)  
**Country of registration:** ID  
**Patent no.:** ID 0000713  
**Countries applicable:** ID  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** APPARATUS AND METHOD FOR OBTAINING FREQUENCY AGILITY IN DIGITAL COMMUNICATION SYSTEMS  
**Country of registration:** IL  
**Patent no.:** 88187  
**Countries applicable:** IL  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** A COMMUNICATION SYSTEMS FOR COMMUNICATING BETWEEN A CENTRAL OFFICE, BASE STATION AND A PLURALITY OF SUBSCRIBER STATIONS  
**Country of registration:** IN  
**Patent no.:** 178151  
**Countries applicable:** IN  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** APPARATUS AND METHOD FOR OBTAINING FREQUENCY AGILITY IN DIGITAL COMMUNICATION SYSTEMS  
**Country of registration:** IN  
**Patent no.:** 174 241  
**Countries applicable:** IN  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** APPARATUS AND METHOD FOR OBTAINING FREQUENCY AGILITY IN DIGITAL COMMUNICATION SYSTEMS (ITALIAN TITLE: SISTEMA DIGITALE DI COMUNICAZIONE E METODO, ATTI AD OTTENERE AGILITA'DI FREQUENZA)  
**Country of registration:** IT  
**Patent no.:** 1235150  
**Countries applicable:** IT  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** APPARATUS AND METHOD FOR OBTAINING FREQUENCY AGILITY IN DIGITAL COMMUNICATION SYSTEMS  
**Country of registration:** CA  
**Patent no.:** 1 295 434  
**Countries applicable:** CA  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** APPARATUS AND METHOD FOR OBTAINING FREQUENCY AGILITY IN DIGITAL COMMUNICATION SYSTEMS  
**Country of registration:** JP  
**Patent no.:** 2899805  
**Countries applicable:** JP  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** APPARATUS AND METHOD FOR OBTAINING FREQUENCY AGILITY IN COMMUNICATION SYSTEMS  
**Country of registration:** MY  
**Patent no.:** MY-101118A  
**Countries applicable:** MY  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** APPARATUS AND METHOD FOR OBTAINING FREQUENCY AGILITY IN DIGITAL COMMUNICATION SYSTEMS  
**Country of registration:** AU  
**Patent no.:** 590168  
**Countries applicable:** AU  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** APPARATUS AND METHOD FOR OBTAINING FREQUENCY AGILITY IN DIGITAL COMMUNICATION SYSTEMS (PORTUGUESE TITLE: SISTEMA E PROCESSO DE COMUNICACOES PARA A OBTENCAO DE UMA AGILIDADE DE FREQUENCIA NOS SISTEMAS)  
**Country of registration:** PT  
**Patent no.:** 88942  
**Countries applicable:** PT  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** GSM/TDMA  
**Title:** APPARATUS AND METHOD FOR OBTAINING FREQUENCY AGILITY IN DIGITAL COMMUNICATION SYSTEMS  
**Country of registration:** NZ  
**Patent no.:** 226967  
**Countries applicable:** NZ  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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<b>Company name:</b>	InterDigital Technology Corp.
<b>Project:</b>	GSM/TDMA
<b>Title:</b>	APPARATUS AND METHOD FOR OBTAINING FREQUENCY AGILITY IN DIGITAL COMMUNICATION SYSTEMS (NORWEGIAN TITLE: ANORDNING OG FREMGANGSMATE FOR A OPPNA FREKVENSSMIDIGHET I DIGITALE KOMMUNIKASJONSSYSTEMER)
<b>Country of registration:</b>	NO
<b>Patent no.:</b>	176780
<b>Countries applicable:</b>	NO
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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<b>Company name:</b>	InterDigital Technology Corp.
<b>Project:</b>	GSM/TDMA
<b>Title:</b>	APPARATUS AND METHOD FOR OBTAINING FREQUENCY AGILITY IN DIGITAL COMMUNICATION SYSTEMS (SPANISH TITLE: SISTEMA TELEFONICO DIGITAL INALAMBRICO)
<b>Country of registration:</b>	ES
<b>Patent no.:</b>	8803332/5
<b>Countries applicable:</b>	ES
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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<b>Company name:</b>	InterDigital Technology Corp.
<b>Project:</b>	GSM/TDMA
<b>Title:</b>	APPARATUS AND METHOD FOR OBTAINING FREQUENCY AGILITY IN DIGITAL COMMUNICATION SYSTEMS (MEXICAN TITLE: APARATO Y METODO PARA OBTENER AGILIDAD DE FRECUENCIA EN SISTEMAS DE COMUNICACION DIGITALES)
<b>Country of registration:</b>	MX
<b>Patent no.:</b>	170,412
<b>Countries applicable:</b>	MX
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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<b>Company name:</b>	InterDigital Technology Corp.
<b>Project:</b>	GSM/TDMA
<b>Title:</b>	APPARATUS AND METHOD FOR OBTAINING FREQUENCY AGILITY IN DIGITAL COMMUNICATION SYSTEMS (ARGENTINEAN TITLE: UNA DISPOSICION TELEFONICA DIGITAL INALAMBRICA)
<b>Country of registration:</b>	AR
<b>Patent no.:</b>	241,364
<b>Countries applicable:</b>	AR
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

## HDSL

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**Company name:** Nokia  
**Project:** HDSL  
**Title:** Method For Connecting An HDSL Transmission Link To A SDH Network  
**Country of registration:** NZ  
**Application no.:** NZ 272163  
**Patent no.:** NZ 272163  
**ETSI Deliverable:** ETR 152, RTR/TM-06002

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**Company name:** Nokia  
**Project:** HDSL  
**Title:** Method For Connecting An HDSL Transmission Link To A SDH Network  
**Country of registration:** EPO  
**Application no.:** EP 95303476.6  
**Patent no.:** EP 683580  
**Countries applicable:** AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE  
**ETSI Deliverable:** ETR 152, RTR/TM-06002

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**Company name:** Nokia  
**Project:** HDSL  
**Title:** Method For Connecting An HDSL Transmission Link To A SDH Network  
**Country of registration:** FI  
**Application no.:** FI 942372  
**Patent no.:** FI 96080  
**ETSI Deliverable:** ETR 152, RTR/TM-06002

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**Company name:** Nokia  
**Project:** HDSL  
**Title:** Method For Connecting An HDSL Transmission Link To A SDH Network  
**Country of registration:** AU  
**Application no.:** AU 20202/95  
**Patent no.:** AU 9520202  
**ETSI Deliverable:** ETR 152, RTR/TM-06002

## HIPERLAN

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**Company name:** INRIA  
**Project:** HIPERLAN  
**Title:** Installation de Transmission de Données de Type Réseau Radio, et Procédé Correspondant  
**Country of registration:** JP  
**Application no.:** 6-516756  
**Countries applicable:** JP  
**ETSI Deliverable:** ETS 300 652

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**Company name:** INRIA  
**Project:** HIPERLAN  
**Title:** Installation de Transmission de Données de Type Réseau Radio, et Procédé Correspondant  
**Country of registration:** EPO  
**Application no.:** 94 905 162  
**ETSI Deliverable:** ETS 300 652

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**Company name:** INRIA  
**Project:** HIPERLAN  
**Title:** Installation de Transmission de Données de Type Réseau Radio, et Procédé Correspondant  
**Country of registration:** US  
**Application no.:** 08/307,578  
**Countries applicable:** US  
**ETSI Deliverable:** ETS 300 652

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**Company name:** INRIA  
**Project:** HIPERLAN  
**Title:** Installation de Transmission de Données de Type Réseau Radio, et Procédé Correspondant  
**Country of registration:** FR  
**Application no.:** 93 00750  
**Countries applicable:** FR  
**ETSI Deliverable:** ETS 300 652

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**Company name:** INRIA  
**Project:** HIPERLAN  
**Title:** Installation de Transmission de Données de Type Réseau Radio, et Procédé Correspondant  
**Country of registration:** CA  
**Application no.:** 2 132 626  
**Countries applicable:** CA  
**ETSI Deliverable:** ETS 300 652

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**Company name:** INRIA  
**Project:** HIPERLAN  
**Title:** Installation de Transmission de Données de Type Réseau Radio, et Procédé Correspondant  
**Country of registration:** FR  
**Application no.:** 95 09928  
**Countries applicable:** FR  
**ETSI Deliverable:** ETS 300 652

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**Company name:** INRIA  
**Project:** HIPERLAN  
**Title:** Installation de Type Réseau Radio de Transmission de Données, avec Routage  
**Country of registration:** FR  
**Application no.:** 95 09928  
**Countries applicable:** FR  
**ETSI Deliverable:** ETS 300 652

## HIPERLAN 2

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**Company name:** Wi-Lan Inc.  
**Project:** HIPERLAN 2  
**Title:** Method & Apparatus for Multiple Access between Transceivers in Wireless Communications using OFDM Spread Spectrum  
**Country of registration:** CA  
**Application no.:** 861,725  
**Patent no.:** 5,282,222  
**Countries applicable:** US  
**ETSI Deliverable:** n/a  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

## ISDN

<b>Company name:</b>	Robert Bosch GmbH
<b>Project:</b>	ISDN
<b>Title:</b>	Verfahren zum Betreiben von Endgeräten eines digitalen Teilnehmeranschlusses
<b>Country of registration:</b>	DE
<b>Patent no.:</b>	DE 33 11 386 C2
<b>Countries applicable:</b>	DE
<b>ETSI Deliverable:</b>	ETS 300 012
<b>Company name:</b>	Ericsson
<b>Project:</b>	ISDN
<b>Title:</b>	TC-relay mechanism feature
<b>Country of registration:</b>	n/a
<b>ETSI Deliverable:</b>	ETS 300 287
<b>Notes:</b>	Ericsson is fully prepared to grant licenses to its rights in this/these patent(s) to the extent necessary in order to comply with said standard on fair, reasonable, and non-discriminatory terms, however, subject to conditions of reciprocity which are required to create fairness in a multi-standard environment.
<b>Company name:</b>	Telia AB
<b>Project:</b>	ISDN
<b>Country of registration:</b>	n/a
<b>Application no.:</b>	96938566
<b>Countries applicable:</b>	EPO
<b>Notes:</b>	This statement is made 16 September 1999 by Telia AB, a Member of ETSI. The SIGNATORY has notified ETSI that it is the proprietor of the IPRs listed in Annex 1 (the IPRs) and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL, or potentially ESSENTIAL, to the Standards listed in Annex 1. However, the SIGNATORY wishes to draw ETSI's attention to the fact that a positive determination of Essentiality cannot be made until a patent has been granted, pursuant to a patent application, and the STANDARD, to which the patent is believed to relate, has been adopted. The SIGNATORY also wishes it to be noted that he is under no obligation to carry out any IPR investigation, in respect of his own IPRs. The SIGNATORY does not warrant the accuracy, or completeness, of the information contained in Annex 1, and accepts no liability for any damage, or loss, resulting from reliance on this information. The SIGNATORY hereby declares that it will grant non-exclusive, irrevocable licences under the patents and/or patent applications listed in Annex 1, to the extent that, and so long as, they are ESSENTIAL to the STANDARD. Such licences will be on terms and conditions which are in accordance with Clause 6.1 of the ETSI Interim IPR Policy. As permitted by Clause 6.1 of the ETSI Interim IPR Policy, any licence granted, by the SIGNATORY, will be subject to the conditions that those who seek licences shall reciprocate.
<b>Company name:</b>	Telia AB
<b>Project:</b>	ISDN
<b>Country of registration:</b>	n/a
<b>Application no.:</b>	973109
<b>Patent no.:</b>	Pending
<b>Countries applicable:</b>	NO
<b>Notes:</b>	This statement is made 16 September 1999 by Telia AB, a Member of ETSI. The SIGNATORY has notified ETSI that it is the proprietor of the IPRs listed in Annex 1 (the IPRs) and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL, or potentially ESSENTIAL, to the Standards listed in Annex 1. However, the SIGNATORY wishes to draw ETSI's attention to the fact that a positive determination of Essentiality cannot be made until a patent has been granted, pursuant to a patent application, and the STANDARD, to which the patent is believed to relate, has been adopted. The SIGNATORY also wishes it to be noted that he is under no obligation to carry out any IPR investigation, in respect of his own IPRs. The SIGNATORY does not warrant the accuracy, or completeness, of the information contained in Annex 1, and accepts no liability for any damage, or loss, resulting from reliance on this information. The SIGNATORY hereby declares that it will grant non-exclusive, irrevocable licences under the patents and/or patent applications listed in Annex 1, to the extent that, and so long as, they are ESSENTIAL to the STANDARD. Such licences will be on terms and conditions which are in accordance with Clause 6.1 of the ETSI Interim IPR Policy. As permitted by Clause 6.1 of the ETSI Interim IPR Policy, any licence granted, by the SIGNATORY, will be subject to the conditions that those who seek licences shall reciprocate.



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**Company name:** Telia AB  
**Project:** ISDN  
**Country of registration:** n/a  
**Application no.:** 08/860,467  
**Patent no.:** Pending  
**Countries applicable:** US  
**Notes:** This statement is made 16 September 1999 by Telia AB, a Member of ETSI. The SIGNATORY has notified ETSI that it is the proprietor of the IPRs listed in Annex 1 (the IPRs) and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL, or potentially ESSENTIAL, to the Standards listed in Annex 1. However, the SIGNATORY wishes to draw ETSI's attention to the fact that a positive determination of Essentiality cannot be made until a patent has been granted, pursuant to a patent application, and the STANDARD, to which the patent is believed to relate, has been adopted. The SIGNATORY also wishes it to be noted that he is under no obligation to carry out any IPR investigation, in respect of his own IPRs. The SIGNATORY does not warrant the accuracy, or completeness, of the information contained in Annex 1, and accepts no liability for any damage, or loss, resulting from reliance on this information. The SIGNATORY hereby declares that it will grant non-exclusive, irrevocable licences under the patents and/or patent applications listed in Annex 1, to the extent that, and so long as, they are ESSENTIAL to the STANDARD. Such licences will be on terms and conditions which are in accordance with Clause 6.1 of the ETSI Interim IPR Policy. As permitted by Clause 6.1 of the ETSI Interim IPR Policy, any licence granted, by the SIGNATORY, will be subject to the conditions that those who seek licences shall reciprocate.

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**Company name:** Telia AB  
**Project:** ISDN  
**Country of registration:** n/a  
**Patent no.:** 504 405  
**Countries applicable:** SE  
**Notes:** This statement is made 16 September 1999 by Telia AB, a Member of ETSI. The SIGNATORY has notified ETSI that it is the proprietor of the IPRs listed in Annex 1 (the IPRs) and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL, or potentially ESSENTIAL, to the Standards listed in Annex 1. However, the SIGNATORY wishes to draw ETSI's attention to the fact that a positive determination of Essentiality cannot be made until a patent has been granted, pursuant to a patent application, and the STANDARD, to which the patent is believed to relate, has been adopted. The SIGNATORY also wishes it to be noted that he is under no obligation to carry out any IPR investigation, in respect of his own IPRs. The SIGNATORY does not warrant the accuracy, or completeness, of the information contained in Annex 1, and accepts no liability for any damage, or loss, resulting from reliance on this information. The SIGNATORY hereby declares that it will grant non-exclusive, irrevocable licences under the patents and/or patent applications listed in Annex 1, to the extent that, and so long as, they are ESSENTIAL to the STANDARD. Such licences will be on terms and conditions which are in accordance with Clause 6.1 of the ETSI Interim IPR Policy. As permitted by Clause 6.1 of the ETSI Interim IPR Policy, any licence granted, by the SIGNATORY, will be subject to the conditions that those who seek licences shall reciprocate.

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**Company name:** Robert Bosch GmbH  
**Project:** ISDN  
**Title:** Verfahren und Schaltungsanordnung zum Betreiben von Endgeräten eines digitalen Teilnehmeranschlusses  
**Country of registration:** DE  
**Patent no.:** DE 33 22 152 C2  
**Countries applicable:** DE  
**ETSI Deliverable:** ETS 300 012

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**Company name:** KPN  
**Project:** ISDN  
**Country of registration:** n/a  
**Patent no.:** WO98/49819  
**ETSI Deliverable:** ETS 300 287  
**Notes:** Royal KPN N.V. herewith notifies ETSI that it is the (co)proprietor of the International patent application WO98/49819 and corresponding patents, both pending and granted, and that it informs ETSI that it believes that these IPR's maybe essential to the standard ETS 300 287, corresponding to ITU Q.730.  
According to an agreement between KPN, Telia and Ericsson, each of the parties is entitled to make licenses available for standardisation purposes in ITU and corresponding standards in ETSI.  
Royal KPN N.V. and/or its affiliates hereby declare that they are prepared to grant irrevocable licenses under the IPR's on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the indicated standard, to the extent that the IPR remains essential.

## Lawful Interception

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**Company name:** Ericsson  
**Project:** Lawful Interception  
**Title:** Telephone call monitoring by law enforcement agency assigning identification numbers for telephone calls and notifying law agency if any party to call is identified as requiring monitoring  
**Country of registration:** SE  
**Application no.:** WO 98/52 337  
**Patent no.:** US-5930698  
**Countries applicable:** US  
**ETSI Deliverable:** ES 201 158  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL. The signatory undertakes in accordance with clause 6.1 only to grant licenses subject to reciprocity.

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**Company name:** Alcatel  
**Project:** Lawful Interception  
**Title:** Procédé et équipement d'interception de communication téléphonique  
**Country of registration:** FR  
**Application no.:** 98402659.1  
**Countries applicable:** AT, BE, DE, IT, ES, SE, GB  
**ETSI Deliverable:** 201 671  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Alcatel  
**Project:** Lawful Interception  
**Title:** Procédé et équipement d'interception de communication téléphonique  
**Country of registration:** FR  
**Application no.:** 98402659.1  
**Countries applicable:** AT, BE, DE, IT, ES, SE, GB  
**ETSI Deliverable:** ES 201 671  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

## PLT

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**Company name:** ITRAN Communications Ltd.  
**Project:** PLT  
**Title:** Media access control with echo based collision detection and resolution  
**Country of registration:** US  
**Application no.:** 09/721,584  
**Countries applicable:** US  
**ETSI Deliverable:** Work Item no. DTS/PLT 00005  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** ITRAN Communications Ltd.  
**Project:** PLT  
**Title:** Media access control utilizing synchronization signaling  
**Country of registration:** US  
**Application no.:** 09/679,330  
**Countries applicable:** US  
**ETSI Deliverable:** Work Item no. DTS/PLT 00005  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

---

**Company name:** ITRAN Communications Ltd.  
**Project:** PLT  
**Title:** Media access control utilizing synchronization signaling  
**Country of registration:** US  
**Application no.:** 09/679,330  
**Countries applicable:** US  
**ETSI Deliverable:** Work Item no. DES/PLT 00005a  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

---

**Company name:** ITRAN Communications Ltd.  
**Project:** PLT  
**Title:** Distributed synchronization mechanism for shared communications media based networks  
**Country of registration:** US  
**Application no.:** To be completed  
**Countries applicable:** US  
**ETSI Deliverable:** Work Item no. DES/PLT 00005a  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

---

**Company name:** ITRAN Communications Ltd.  
**Project:** PLT  
**Title:** Distributed synchronization mechanism for shared communications media based networks  
**Country of registration:** US  
**Application no.:** To be completed  
**Countries applicable:** US  
**ETSI Deliverable:** Work Item no. DTS/PLT 00005  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

---

**Company name:** ITRAN Communications Ltd.  
**Project:** PLT  
**Title:** Media access control with echo based collision detection and resolution  
**Country of registration:** US  
**Application no.:** 09/721,584  
**Countries applicable:** US  
**ETSI Deliverable:** Work Item no. DES/PLT 00005a  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

## PSTN

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**Company name:** AT&T  
**Project:** PSTN  
**Title:** Transmission During Ringing  
**Country of registration:** US  
**Patent no.:** 4,582,956  
**Countries applicable:** US  
**ETSI Deliverable:** ETS 300 659-1

---

**Company name:** AT&T  
**Project:** PSTN  
**Title:** Transmission During Ringing  
**Country of registration:** CA  
**Patent no.:** 1,225,726  
**Countries applicable:** CA  
**ETSI Deliverable:** ETS 300 659-1

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**Company name:** Nortel Northern Telecom Ltd.  
**Project:** PSTN  
**Country of registration:** GB  
**Patent no.:** GB 2 2588 119 B  
**Countries applicable:** GB  
**ETSI Deliverable:** ETS 300 659-2

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**Company name:** AT&T  
**Project:** PSTN  
**Title:** Transmission During Ringing  
**Country of registration:** FR  
**Patent no.:** 0,150,181  
**Countries applicable:** FR  
**ETSI Deliverable:** ETS 300 659-1

---

**Company name:** AT&T  
**Project:** PSTN  
**Title:** Transmission During Ringing  
**Country of registration:** GB  
**Patent no.:** 0,150,181  
**Countries applicable:** GB  
**ETSI Deliverable:** ETS 300 659-1

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**Company name:** AT&T  
**Project:** PSTN  
**Title:** Transmission During Ringing  
**Country of registration:** BE  
**Patent no.:** 0,150,181  
**Countries applicable:** BE  
**ETSI Deliverable:** ETS 300 659-1

---

**Company name:** AT&T  
**Project:** PSTN  
**Title:** Transmission During Ringing  
**Country of registration:** JP  
**Patent no.:** 1,832,616  
**Countries applicable:** JP  
**ETSI Deliverable:** ETS 300 659-1

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**Company name:** AT&T  
**Project:** PSTN  
**Title:** Transmission During Ringing  
**Country of registration:** NL  
**Patent no.:** 0,150,181  
**Countries applicable:** NL  
**ETSI Deliverable:** ETS 300 659-1

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**Company name:** AT&T  
**Project:** PSTN  
**Title:** Transmission During Ringing  
**Country of registration:** SE  
**Patent no.:** 0,150,181  
**Countries applicable:** SE  
**ETSI Deliverable:** ETS 300 659-1

---

**Company name:** AT&T  
**Project:** PSTN  
**Title:** Transmission During Ringing  
**Country of registration:** DE  
**Patent no.:** 3,376,377  
**Countries applicable:** DE  
**ETSI Deliverable:** ETS 300 659-1

---

**Company name:** AT&T  
**Project:** PSTN  
**Title:** Transmission During Ringing  
**Country of registration:** EPO  
**Patent no.:** WO 85/00488  
**Countries applicable:** AT, AU, BE, BR, CH, DE, DK, FI, FR, GB, JP, LU, NL, NO, SE, US  
**ETSI Deliverable:** ETS 300 659-1

## RES

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**Company name:** BT  
**Project:** RES  
**Country of registration:** PCT  
**Application no.:** PCT/GB 92/02102  
**Patent no.:** Published WO93/10623  
**Countries applicable:** DE, DK, ES, FR, GB, GR, IE, IT, NL, SE



## SDH

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**Company name:** Siemens  
**Project:** SDH  
**Title:** A method for transmission of a digital broadband signal in a tributary unit concatenation via a network of the synchronous digital multiplex hierarchy  
**Country of registration:** NO  
**Application no.:** 905114  
**Patent no.:** 302269  
**Countries applicable:** NO  
**ETSI Deliverable:** EN 300 417-9-1 V1.1.1  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that it is their belief that this IPR is, or is likely to become essential in relation to this standard.  
 The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

---

**Company name:** Siemens  
**Project:** SDH  
**Title:** A method for transmission of a digital broadband signal in a tributary unit concatenation via a network of the synchronous digital multiplex hierarchy  
**Country of registration:** JP  
**Application no.:** 02-320576  
**Patent no.:** 2044162  
**Countries applicable:** JP  
**ETSI Deliverable:** EN 300 417-9-1 V1.1.1  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that it is their belief that this IPR is, or is likely to become essential in relation to this standard.  
 The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Siemens  
**Project:** SDH  
**Title:** A method for transmission of a digital broadband signal in a tributary unit concatenation via a network of the synchronous digital multiplex hierarchy  
**Country of registration:** CN  
**Application no.:** 90109646.6  
**Patent no.:** 16447  
**Countries applicable:** CN  
**ETSI Deliverable:** EN 300 417-9-1 V1.1.1  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that it is their belief that this IPR is, or is likely to become essential in relation to this standard.  
 The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

---

**Company name:** Siemens  
**Project:** SDH  
**Title:** A method for transmission of a digital broadband signal in a tributary unit concatenation via a network of the synchronous digital multiplex hierarchy  
**Country of registration:** CA  
**Application no.:** 2030954  
**Patent no.:** 2030954  
**Countries applicable:** CA  
**ETSI Deliverable:** EN 300 417-9-1 V1.1.1  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that it is their belief that this IPR is, or is likely to become essential in relation to this standard.  
 The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Siemens  
**Project:** SDH  
**Title:** A method for transmission of a digital broadband signal in a tributary unit concatenation via a network of the synchronous digital multiplex hierarchy  
**Country of registration:** RU  
**Application no.:** 4831743/09  
**Patent no.:** 2095942  
**Countries applicable:** RU  
**ETSI Deliverable:** EN 300 417-9-1 V1.1.1  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that it is their belief that this IPR is, or is likely to become essential in relation to this standard.  
The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Siemens  
**Project:** SDH  
**Title:** A method for transmission of a digital broadband signal in a tributary unit concatenation via a network of the synchronous digital multiplex hierarchy  
**Country of registration:** AU  
**Application no.:** 67064/90  
**Patent no.:** 620744  
**Countries applicable:** AU  
**ETSI Deliverable:** EN 300 417-9-1 V1.1.1  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that it is their belief that this IPR is, or is likely to become essential in relation to this standard.  
The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Siemens  
**Project:** SDH  
**Title:** A method for transmission of a digital broadband signal in a tributary unit concatenation via a network of the synchronous digital multiplex hierarchy  
**Country of registration:** YU  
**Application no.:** P-1978/90  
**Countries applicable:** YU  
**ETSI Deliverable:** EN 300 417-9-1 V1.1.1  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that it is their belief that this IPR is, or is likely to become essential in relation to this standard.  
The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

---

**Company name:** Siemens  
**Project:** SDH  
**Title:** A method for transmission of a digital broadband signal in a tributary unit concatenation via a network of the synchronous digital multiplex hierarchy  
**Country of registration:** DE  
**Application no.:** 90121127.6  
**Patent no.:** 0 429 888 B1  
**Countries applicable:** CH, DE, FR, GB, IT, US, AU, CA, CN, JP, NO, RU, UA, YU  
**ETSI Deliverable:** EN 300 417-9-1 V1.1.1  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that it is their belief that this IPR is, or is likely to become essential in relation to this standard.  
The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

---

**Company name:** Siemens  
**Project:** SDH  
**Title:** A method for transmission of a digital broadband signal in a tributary unit concatenation via a network of the synchronous digital multiplex hierarchy  
**Country of registration:** US  
**Application no.:** 07/691,676  
**Patent no.:** 5168494  
**Countries applicable:** US  
**ETSI Deliverable:** EN 300 417-9-1 V1.1.1  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that it is their belief that this IPR is, or is likely to become essential in relation to this standard.  
The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Siemens  
**Project:** SDH  
**Title:** A method for transmission of a digital broadband signal in a tributary unit concatenation via a network of the synchronous digital multiplex hierarchy  
**Country of registration:** UA  
**Application no.:** 93003414  
**Patent no.:** 26436  
**Countries applicable:** UA  
**ETSI Deliverable:** EN 300 417-9-1 V1.1.1  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that it is their belief that this IPR is, or is likely to become essential in relation to this standard.  
The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

## SDSL

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**Company name:** Siemens  
**Project:** SDSL  
**Title:** n/a  
**Country of registration:** DE  
**Application no.:** n/a  
**Patent no.:** n/a  
**ETSI Deliverable:** TS 101 524-2  
**Notes:** Siemens Aktiengesellschaft hereby declare that they are aware of the rules according to the inclusion of patented issues in ETSI Standards, and that they are not prepared to waive their rights but would be willing to negotiate licenses with other parties on a non-discriminatory basis on reasonable terms that are demonstrably free of any unfair competition. Such licenses provide that a grant under any licensee's patent rights within the scope of the license granted to the licensee is made available to Siemens Aktiengesellschaft and its subsidiaries on request.

---

**Company name:** Siemens  
**Project:** SDSL  
**Country of registration:** DE  
**Notes:** Siemens Aktiengesellschaft hereby declares that in the event it has existing patents or may in the future obtain patents which are necessary to manufacture, use, and sell implementations of the "SDSL" standard it is prepared to license these patents. Siemens Aktiengesellschaft hereby also declares that it is aware of the rules governing inclusion of patented items in international standards, as currently described by the ETSI IPR Policy, and in particular that it is willing to grant a license to an unlimited number of applicants throughout the world under reasonable terms and conditions that are demonstrably free of any unfair competition. Such licence will provide that a similar grant under any licensee's patent within the scope of the license granted to the licensee is made available by Siemens Aktiengesellschaft and its subsidiaries on request.

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**Company name:** Tioga Technologies Ltd.  
**Project:** SDSL  
**Title:** n/a  
**Country of registration:** IL  
**Application no.:** n/a  
**Countries applicable:** US  
**ETSI Deliverable:** TS 101 524  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Siemens  
**Project:** SDSL  
**Title:** n/a  
**Country of registration:** DE  
**Application no.:** n/a  
**Patent no.:** n/a  
**ETSI Deliverable:** TS 101 524  
**Notes:** Siemens Aktiengesellschaft hereby declare that they are aware of the rules according to the inclusion of patented issues in ETSI Standards, and that they are not prepared to waive their rights but would be willing to negotiate licenses with other parties on a non-discriminatory basis on reasonable terms that are demonstrably free of any unfair competition. Such licenses provide that a grant under any licensee's patent rights within the scope of the license granted to the licensee is made available to Siemens Aktiengesellschaft and its subsidiaries on request.

---

**Company name:** Siemens  
**Project:** SDSL  
**Title:** n/a  
**Country of registration:** DE  
**Application no.:** n/a  
**Patent no.:** n/a  
**ETSI Deliverable:** TS 101 524-1  
**Notes:** Siemens Aktiengesellschaft hereby declare that they are aware of the rules according to the inclusion of patented issues in ETSI Standards, and that they are not prepared to waive their rights but would be willing to negotiate licenses with other parties on a non-discriminatory basis on reasonable terms that are demonstrably free of any unfair competition. Such licenses provide that a grant under any licensee's patent rights within the scope of the license granted to the licensee is made available to Siemens Aktiengesellschaft and its subsidiaries on request.

## STAG

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**Company name:** KPN  
**Project:** STAG  
**Title:** Monitoring Method and Monitoring System  
**Country of registration:** n/a  
**Patent no.:** EP 823187  
**Countries applicable:** NL, US  
**Notes:** Royal KPN N.V. undertakes that it is prepared to grant irrevocable licenses on fair reasonable and non-discriminatory terms and conditions under its hereinafter mentioned patents and applications therefore, as far as they are declared to be essential for implementation of the standard pursuant to the ETSI Rules of Procedure. Patent number EP 823187 is granted in the Netherlands and the USA, pending in other territories.

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**Company name:** KPN  
**Project:** STAG  
**Title:** Monitoring Method and Monitoring System  
**Country of registration:** n/a  
**Patent no.:** WO 96/34506  
**Countries applicable:** NL, US  
**Notes:** Royal KPN N.V. undertakes that it is prepared to grant irrevocable licenses on fair reasonable and non-discriminatory terms and conditions under its hereinafter mentioned patents and applications therefore, as far as they are declared to be essential for implementation of the standard pursuant to the ETSI Rules of Procedure. Patent number WO 96/34506 is granted in the Netherlands and the USA, pending in other territories.

## Television systems

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**Company name:** Philips  
**Project:** Television systems  
**Country of registration:** EPO  
**Patent no.:** EP-A 0 538 466  
**ETSI Deliverable:** ETS 300 732

## TETRA

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**Company name:** Motorola  
**Project:** TETRA  
**Title:** Packet-Switched Cellular Telephone System  
**Country of registration:** EPO  
**Application no.:** 89101118.1  
**Countries applicable:** AT, BE, FR, DE, GB, GR, IT, LI, LU, NL, ES, SE, CH

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**Company name:** Alcatel  
**Project:** TETRA  
**Title:** Time Slot Stealing in a multiplexed Radio System  
**Country of registration:** FR  
**Application no.:** 93 105 67  
**Patent no.:** 2 709 893  
**Countries applicable:** FR  
**Notes:** Part 2: Air interface

---

**Company name:** Motorola  
**Project:** TETRA  
**Title:** Radio System  
**Country of registration:** EPO  
**Application no.:** 93922524.9  
**Countries applicable:** AT, DK, DE, GB, ES, SE

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**Company name:** Motorola  
**Project:** TETRA  
**Title:** Radio System  
**Country of registration:** FI  
**Application no.:** 943189  
**Countries applicable:** FI

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**Company name:** Motorola  
**Project:** TETRA  
**Title:** Radio System  
**Country of registration:** HU  
**Application no.:** P9401972  
**Countries applicable:** HU

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**Company name:** Motorola  
**Project:** TETRA  
**Title:** Radio System  
**Country of registration:** RO  
**Application no.:** 94-01115  
**Countries applicable:** RO

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**Company name:** Motorola  
**Project:** TETRA  
**Title:** Radio System  
**Country of registration:** PL  
**Application no.:** P-304341  
**Countries applicable:** PL

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**Company name:** Motorola  
**Project:** TETRA  
**Title:** Trunked Communication System with Nationwide Roaming Capability  
**Country of registration:** EPO  
**Application no.:** 89901513.5  
**Countries applicable:** AT, BE, FR, DE, GB, IT, LU, NL, SE, CH



---

**Company name:** Marconi Communications Ltd.  
**Project:** TETRA  
**Title:** A Communication System  
**Country of registration:** DE  
**Application no.:** 87307453.8  
**Patent no.:** P.3787787.9  
**Countries applicable:** DE  
**Notes:** Marconi Communications undertakes to grant irrevocable licences on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy.

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**Company name:** Alcatel  
**Project:** TETRA  
**Title:** Power Control for Radio Access  
**Country of registration:** JP  
**Application no.:** 94-38813  
**Patent no.:** 07007469  
**Countries applicable:** JP  
**Notes:** Part 2: Air interface

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**Company name:** Alcatel  
**Project:** TETRA  
**Title:** Dummy Burst Structure  
**Country of registration:** US  
**Application no.:** 94-313798  
**Patent no.:** 5,583,870  
**Countries applicable:** US  
**Notes:** Part 2: Air interface

---

**Company name:** Alcatel  
**Project:** TETRA  
**Title:** Method for forming Groups of Communication Terminals  
**Country of registration:** EPO  
**Application no.:** EP 94 200 739  
**Patent no.:** EP 0 675 660  
**Countries applicable:** AT, BE, FR, DE, IT, NL, ES, SE, CH, GB

---

**Company name:** Alcatel  
**Project:** TETRA  
**Title:** Method for forming Groups of Communication Terminals  
**Country of registration:** US  
**Application no.:** 408628  
**Patent no.:** 5,625,886  
**Countries applicable:** US  
**Notes:** Part 2: Air interface

---

**Company name:** Marconi Communications Ltd.  
**Project:** TETRA  
**Country of registration:** n/a  
**Patent no.:** GB 2 177 873  
**Notes:** Patents essential to the TETRA Standard: I am writing to notify you, on behalf of Marconi Communications Limited, of patent GB 2 177 873 which is considered essential to the above standard. (Signatory: Roger K. Tolfree, Manager).

---

**Company name:** Marconi Communications Ltd.  
**Project:** TETRA  
**Title:** Data Transmission System  
**Country of registration:** GB  
**Application no.:** 8428154  
**Patent no.:** 2166929  
**Countries applicable:** GB  
**Notes:** Marconi Communications undertakes to grant irrevocable licences on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy.

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**Company name:** Alcatel  
**Project:** TETRA  
**Title:** Dummy Burst Structure  
**Country of registration:** CA  
**Application no.:** 94-2133139  
**Patent no.:** 2133139  
**Countries applicable:** CA  
**Notes:** Part 2: Air interface

---

**Company name:** Marconi Communications Ltd.  
**Project:** TETRA  
**Title:** A Communication System  
**Country of registration:** GB  
**Application no.:** 8628497  
**Patent no.:** 2198013  
**Countries applicable:** GB  
**Notes:** Marconi Communications undertakes to grant irrevocable licences on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy.

---

**Company name:** Alcatel  
**Project:** TETRA  
**Title:** Dummy Burst Structure  
**Country of registration:** AU  
**Application no.:** 94-74213  
**Patent no.:** 9474213  
**Countries applicable:** AU  
**Notes:** Part 2: Air interface

---

**Company name:** Marconi Communications Ltd.  
**Project:** TETRA  
**Title:** A Communication System  
**Country of registration:** FR  
**Application no.:** 87307453.8  
**Patent no.:** 0269202  
**Countries applicable:** FR  
**Notes:** Marconi Communications undertakes to grant irrevocable licences on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy.

---

**Company name:** Marconi Communications Ltd.  
**Project:** TETRA  
**Title:** A Communication System  
**Country of registration:** IT  
**Application no.:** 70146/BE/93  
**Patent no.:** 0269202  
**Countries applicable:** IT  
**Notes:** Marconi Communications undertakes to grant irrevocable licences on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy.

---

**Company name:** Marconi Communications Ltd.  
**Project:** TETRA  
**Title:** A Communication System  
**Country of registration:** US  
**Application no.:** 125469  
**Patent no.:** 4866709  
**Countries applicable:** US  
**Notes:** Marconi Communications undertakes to grant irrevocable licences on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy.

---

**Company name:** Marconi Communications Ltd.  
**Project:** TETRA  
**Title:** Signal Strength Measurement  
**Country of registration:** GB  
**Application no.:** 8915399.3  
**Patent no.:** 2234354  
**Countries applicable:** GB  
**Notes:** Marconi Communications undertakes to grant irrevocable licences on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy.

---

**Company name:** Marconi Communications Ltd.  
**Project:** TETRA  
**Title:** Signal Transmission System  
**Country of registration:** GB  
**Application no.:** 9005197.0  
**Patent no.:** 2241850  
**Countries applicable:** GB  
**Notes:** Marconi Communications undertakes to grant irrevocable licences on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy.

---

**Company name:** Thomson-CSF  
**Project:** TETRA  
**Title:** Dynamic Codebook for Efficient Speech Coding Based on Algebraic Codes  
**Country of registration:** CA  
**Application no.:** 2 010 830  
**Countries applicable:** CA  
**Notes:** This patent is owned by the University of Sherbrooke who has given a licence to Thomson to grant sublicences

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**Company name:** Thomson-CSF  
**Project:** TETRA  
**Title:** Dynamic Codebook for Efficient Speech Coding Based on Algebraic Codes  
**Country of registration:** PCT  
**Application no.:** PCT/CA90/00381  
**Notes:** This patent is owned by the University of Sherbrooke who has given a licence to Thomson to grant sublicences

---

**Company name:** Marconi Communications Ltd.  
**Project:** TETRA  
**Title:** Communication Systems and Stations for such a System  
**Country of registration:** GB  
**Application no.:** 8723162  
**Patent no.:** 2195870  
**Countries applicable:** GB  
**Notes:** Marconi Communications undertakes to grant irrevocable licences on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy.

---

**Company name:** Alcatel  
**Project:** TETRA  
**Title:** Power Control for Radio Access  
**Country of registration:** FI  
**Application no.:** 94-1066  
**Patent no.:** 9401066  
**Countries applicable:** FI  
**Notes:** Part 2: Air interface

---

**Company name:** Motorola  
**Project:** TETRA  
**Title:** Radio System  
**Country of registration:** TR  
**Patent no.:** 28221

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**Company name:** Motorola  
**Project:** TETRA  
**Title:** Improved Dispatched Trunked Radio System  
**Country of registration:** EPO  
**Patent no.:** EP 0 210 181  
**Countries applicable:** AT, BE, FR, GB, DE, IT, NL, SE, CH

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**Company name:** Motorola  
**Project:** TETRA  
**Title:** Selective System Scan for Multizone Radiotelephone Subscriber Units  
**Country of registration:** EPO  
**Patent no.:** EP 0 352 786  
**Countries applicable:** AT, BE, FR, DE, GB, GR, IE, IT, LU, NL, ES, SE, CH

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**Company name:** Motorola  
**Project:** TETRA  
**Title:** A method of operating a Radio Transmission or Communication System Including a Central Station and a Plurality of Individual Rem  
**Country of registration:** EPO  
**Patent no.:** EP 0 269 643  
**Countries applicable:** AT, BE, DK, DE, FR, GB, IT, NL, SE, CH

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**Company name:** Motorola  
**Project:** TETRA  
**Title:** Communications Apparatus  
**Country of registration:** GB  
**Application no.:** GB9119186.6  
**Countries applicable:** GB

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**Company name:** Alcatel  
**Project:** TETRA  
**Title:** Power Control for Radio Access  
**Country of registration:** FR  
**Application no.:** 93 02 701  
**Patent no.:** 2 702 614  
**Countries applicable:** FR  
**Notes:** Part 2: Air interface

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**Company name:** Alcatel  
**Project:** TETRA  
**Title:** Dummy Burst Structure  
**Country of registration:** JP  
**Application no.:** 235504/94  
**Patent no.:** 170580/95  
**Countries applicable:** JP  
**Notes:** Part 2: Air interface

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**Company name:** Alcatel  
**Project:** TETRA  
**Title:** Power Control for Radio Access  
**Country of registration:** AU  
**Application no.:** 94-57661  
**Patent no.:** 9457661  
**Countries applicable:** AU  
**Notes:** Part 2: Air interface

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**Company name:** Motorola  
**Project:** TETRA  
**Title:** Radio System  
**Country of registration:** RU  
**Application no.:** 94035751.0  
**Countries applicable:** RU

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**Company name:** Alcatel  
**Project:** TETRA  
**Title:** Power Control for Radio Access  
**Country of registration:** US  
**Application no.:** 94-207687  
**Patent no.:** 5,564,075  
**Countries applicable:** US  
**Notes:** Part 2: Air interface

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**Company name:** Alcatel  
**Project:** TETRA  
**Title:** Time Slot Stealing in a multiplexed Radio System  
**Country of registration:** EPO  
**Application no.:** EP 94 401 946  
**Patent no.:** EP 0 642 285  
**Countries applicable:** AT, BE, DK, FR, DE, IT, NL, ES, SE, CH, GB  
**Notes:** Part 2: Air interface

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**Company name:** Alcatel  
**Project:** TETRA  
**Title:** Time Slot Stealing in a multiplexed Radio System  
**Country of registration:** FI  
**Application no.:** 94-4038  
**Patent no.:** 9404038  
**Countries applicable:** FI  
**Notes:** Part 2: Air interface

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**Company name:** Alcatel  
**Project:** TETRA  
**Title:** Time Slot Stealing in a multiplexed Radio System  
**Country of registration:** JP  
**Application no.:** 213006/94  
**Patent no.:** 254879/95  
**Countries applicable:** JP  
**Notes:** Part 2: Air interface

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**Company name:** Alcatel  
**Project:** TETRA  
**Title:** Time Slot Stealing in a multiplexed Radio System  
**Country of registration:** US  
**Application no.:** 299 654  
**Patent no.:** 5,511,072  
**Countries applicable:** US  
**Notes:** Part 2: Air interface

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**Company name:** Alcatel  
**Project:** TETRA  
**Title:** Dummy Burst Structure  
**Country of registration:** FR  
**Application no.:** 93 11 572  
**Patent no.:** 2710805  
**Countries applicable:** FR  
**Notes:** Part 2: Air interface

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**Company name:** Alcatel  
**Project:** TETRA  
**Title:** Dummy Burst Structure  
**Country of registration:** EPO  
**Application no.:** EP 94 402 160  
**Patent no.:** EP 0 645 903  
**Countries applicable:** AT, BE, DK, FR, DE, IT, NL, ES, SE, CH, GB  
**Notes:** Part 2: Air interface

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**Company name:** Alcatel  
**Project:** TETRA  
**Title:** Power Control for Radio Access  
**Country of registration:** EPO  
**Application no.:** EP 94 400 502  
**Patent no.:** EP 0 615 353  
**Countries applicable:** BE, FR, DE, IT, NL, ES, SE, GB  
**Notes:** Part 2: Air interface

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**Company name:** Nokia  
**Project:** TETRA  
**Title:** Method For Establishing Connection Between Communication Devices  
**Country of registration:** AU  
**Application no.:** AU 54673/94  
**Patent no.:** AU 674362

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**Company name:** Nokia  
**Project:** TETRA  
**Title:** Method, Mobile Exchange And Subscriber Station In A Mobile Radio System For Establishing A High-Priority Call  
**Country of registration:** FI  
**Application no.:** FI 933576  
**Patent no.:** FI 95428

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**Company name:** Nokia  
**Project:** TETRA  
**Title:** Method, Mobile Exchange And Subscriber Station In A Mobile Radio System For Establishing A High-Priority Call  
**Country of registration:** PCT  
**Application no.:** PCT/FI94/00348  
**Patent no.:** WO 9505721

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**Company name:** Nokia  
**Project:** TETRA  
**Title:** Method, Mobile Exchange And Subscriber Station In A Mobile Radio System For Establishing A High-Priority Call  
**Country of registration:** EPO  
**Application no.:** EP 94924311.7  
**Patent no.:** EP 664069  
**Countries applicable:** AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE

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**Company name:** Nokia  
**Project:** TETRA  
**Title:** Radio System  
**Country of registration:** EPO  
**Application no.:** EP 94900833.8  
**Patent no.:** EP 671097  
**Countries applicable:** AT, BE, CH, LI, DE, FR, GB, IT, NL, SE

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**Company name:** Nokia  
**Project:** TETRA  
**Title:** Radio System  
**Country of registration:** JP  
**Application no.:** JP 6-512808  
**Patent no.:** JP 8503587

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**Company name:** Nokia  
**Project:** TETRA  
**Title:** Method, Mobile Exchange And Subscriber Station In A Mobile Radio System For Establishing A High-Priority Call  
**Country of registration:** JP  
**Application no.:** JP 7-506774  
**Patent no.:** JP 8502639

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**Company name:** Nokia  
**Project:** TETRA  
**Title:** Method For Establishing Connection Between Communication Devices  
**Country of registration:** FI  
**Application no.:** FI 925236  
**Patent no.:** FI 96156

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**Company name:** Nokia  
**Project:** TETRA  
**Title:** Method For Establishing Connection Between Communication Devices  
**Country of registration:** PCT  
**Application no.:** PCT/FI93/00486  
**Patent no.:** WO 9411997

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**Company name:** Motorola  
**Project:** TETRA  
**Title:** Digital Speech Coder Having Improved Long Term Lag Parameter Determination  
**Country of registration:** GB  
**Patent no.:** EP0415163  
**Countries applicable:** BE, CH, DE, FR, GB, IT, LI, NL  
**ETSI Deliverable:** ETS 300 395-2  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia  
**Project:** TETRA  
**Title:** Method For Establishing Connection Between Communication Devices  
**Country of registration:** JP  
**Application no.:** JP 6-511767  
**Patent no.:** JP 8503112

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**Company name:** Nokia  
**Project:** TETRA  
**Title:** Method, Mobile Exchange And Subscriber Station In A Mobile Radio System For Establishing A High-Priority Call  
**Country of registration:** US  
**Application no.:** US 08/416, 731  
**Patent no.:** US 5634197

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**Company name:** Nokia  
**Project:** TETRA  
**Title:** Method, Mobile Exchange And Subscriber Station In A Mobile Radio System For Establishing A High-Priority Call  
**Country of registration:** AU  
**Application no.:** AU 74615/94  
**Patent no.:** AU 674781

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**Company name:** Nokia  
**Project:** TETRA  
**Title:** Method, Mobile Exchange And Subscriber Station In A Mobile Radio System For Establishing A High-Priority Call  
**Country of registration:** CN  
**Application no.:** CN 94190593.4  
**Patent no.:** CN 1113406

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**Company name:** Nokia  
**Project:** TETRA  
**Title:** Method For Realising A Group Call In A Digital Radio Network  
**Country of registration:** PCT  
**Application no.:** PCT/FI92/00248  
**Patent no.:** WO 9307723

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**Company name:** Nokia  
**Project:** TETRA  
**Title:** Method For Realising A Group Call In A Digital Radio Network  
**Country of registration:** EPO  
**Application no.:** EP 92919957.8  
**Patent no.:** EP 606282  
**Countries applicable:** AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE

---

**Company name:** Nokia  
**Project:** TETRA  
**Title:** Method For Realising A Group Call In A Digital Radio Network  
**Country of registration:** AU  
**Application no.:** AU 25722/92  
**Patent no.:** AU 665573

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**Company name:** Thomson-CSF  
**Project:** TETRA  
**Title:** Dynamic Codebook for Efficient Speech Coding Based on Algebraic Codes  
**Country of registration:** EPO  
**Application no.:** 909159568  
**Notes:** This patent is owned by the University of Sherbrooke who has given a licence to Thomson to grant sublicences

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**Company name:** Nokia  
**Project:** TETRA  
**Title:** Method For Establishing Connection Between Communication Devices  
**Country of registration:** US  
**Application no.:** US 08/436, 185  
**Patent no.:** US 5633913

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**Company name:** Nokia  
**Project:** TETRA  
**Title:** Method For Realising A Group Call In A Digital Radio Network  
**Country of registration:** US  
**Application no.:** US 08/211459  
**Patent no.:** US 5594948

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**Company name:** Nokia  
**Project:** TETRA  
**Title:** Method For Establishing Connection Between Communication Devices  
**Country of registration:** EPO  
**Application no.:** EP 94900171.3  
**Patent no.:** EP 670097  
**Countries applicable:** AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE

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**Company name:** Nokia  
**Project:** TETRA  
**Title:** Call Control In A Digital TDMA Radio System  
**Country of registration:** JP  
**Application no.:** JP 6-515724  
**Patent no.:** JP 7504793

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**Company name:** Thomson-CSF  
**Project:** TETRA  
**Title:** Procédés et Dispositif de Transmission Numérique de Signaux Vocaux par Voie Radio  
**Country of registration:** FR  
**Application no.:** 86/17877  
**Countries applicable:** FR

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**Company name:** Motorola  
**Project:** TETRA  
**Title:** Digital Speech Coder Having Improved Sub-Sample Resolution Long-Term Predictor  
**Country of registration:** GB  
**Patent no.:** EP0450064  
**Countries applicable:** AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, LU, NL, SE  
**ETSI Deliverable:** ETS 300 395-2  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia  
**Project:** TETRA  
**Title:** Method For Realising A Group Call In A Digital Radio Network  
**Country of registration:** FI  
**Application no.:** FI 914656  
**Patent no.:** FI 88986

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<b>Company name:</b>	Thomson-CSF
<b>Project:</b>	TETRA
<b>Title:</b>	Procédés et Dispositif de Transmission Numérique de Signaux Vocaux par Voie Radio
<b>Country of registration:</b>	EPO
<b>Patent no.:</b>	87/4028541
<b>Company name:</b>	Alcatel
<b>Project:</b>	TETRA
<b>Title:</b>	Procédé et dispositif d'entrelacement d'une séquence d'éléments de données
<b>Country of registration:</b>	FR
<b>Patent no.:</b>	EP 0 627 821
<b>Countries applicable:</b>	BE, FR, DE, IT, LU, NL, PT, ES, SE, CH, GB
<b>ETSI Deliverable:</b>	ETS 300 392-2
<b>Notes:</b>	The signatory and/or its affiliates hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the standard, to the extent that the IPRs remain essential.
<b>Company name:</b>	Nokia
<b>Project:</b>	TETRA
<b>Title:</b>	Call Control In A Digital TDMA Radio System
<b>Country of registration:</b>	FI
<b>Application no.:</b>	FI 930096
<b>Patent no.:</b>	FI 92274
<b>Company name:</b>	Thomson-CSF
<b>Project:</b>	TETRA
<b>Title:</b>	Dynamic Codebook for Efficient Speech Coding Based on Algebraic Codes
<b>Country of registration:</b>	US
<b>Application no.:</b>	927 528
<b>Countries applicable:</b>	US
<b>Notes:</b>	This patent is owned by the University of Sherbrooke who has given a licence to Thomson to grant sublicences
<b>Company name:</b>	Nokia
<b>Project:</b>	TETRA
<b>Title:</b>	Call Control In A Digital TDMA Radio System
<b>Country of registration:</b>	EPO
<b>Application no.:</b>	EP 94903913.5
<b>Patent no.:</b>	EP 630548
<b>Countries applicable:</b>	AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE
<b>Company name:</b>	Alcatel
<b>Project:</b>	TETRA
<b>Title:</b>	Procédé et dispositif d'entrelacement d'une séquence d'éléments de données
<b>Country of registration:</b>	FR
<b>Patent no.:</b>	FR 2 706 054
<b>Countries applicable:</b>	FR
<b>ETSI Deliverable:</b>	ETS 300 392-2
<b>Notes:</b>	The signatory and/or its affiliates hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the standard, to the extent that the IPRs remain essential.
<b>Company name:</b>	Nokia
<b>Project:</b>	TETRA
<b>Title:</b>	Call Control In A Digital TDMA Radio System
<b>Country of registration:</b>	US
<b>Application no.:</b>	US 08/302787
<b>Patent no.:</b>	US 5485635
<b>Company name:</b>	Nokia
<b>Project:</b>	TETRA
<b>Title:</b>	Call Control In A Digital TDMA Radio System
<b>Country of registration:</b>	AU
<b>Application no.:</b>	AU 58176/94
<b>Patent no.:</b>	AU 671348

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**Company name:** Nokia  
**Project:** TETRA  
**Title:** Call Control In A Digital TDMA Radio System  
**Country of registration:** CN  
**Application no.:** CN 94190016.9  
**Patent no.:** CN 1101490

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**Company name:** Nokia  
**Project:** TETRA  
**Title:** Radio System  
**Country of registration:** FI  
**Application no.:** FI 925431  
**Patent no.:** FI 96656

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**Company name:** Nokia  
**Project:** TETRA  
**Title:** Radio System  
**Country of registration:** PCT  
**Application no.:** PCT/FI93/00501  
**Patent no.:** WO 9413089

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**Company name:** Nokia  
**Project:** TETRA  
**Title:** Radio System  
**Country of registration:** AU  
**Application no.:** AU 55639/94  
**Patent no.:** AU 683033

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**Company name:** Alcatel  
**Project:** TETRA  
**Title:** Procédé et dispositif d'entrelacement d'une séquence d'éléments de données  
**Country of registration:** FR  
**Application no.:** 94 2 512  
**Countries applicable:** FI  
**ETSI Deliverable:** ETS 300 392-2  
**Notes:** The signatory and/or its affiliates hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the standard, to the extent that the IPRs remain essential.

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**Company name:** Alcatel  
**Project:** TETRA  
**Title:** Method and device for interleaving a sequence of data elements  
**Country of registration:** FR  
**Patent no.:** US 5,742,612  
**Countries applicable:** US  
**ETSI Deliverable:** ETS 300 392-2  
**Notes:** The signatory and/or its affiliates hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the standard, to the extent that the IPRs remain essential.

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**Company name:** Nokia  
**Project:** TETRA  
**Title:** Call Control In A Digital TDMA Radio System  
**Country of registration:** NO  
**Application no.:** NO 943346  
**Patent no.:** NO 9403346

## TFTS

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**Company name:** BT  
**Project:** TFTS  
**Title:** Skyphone Fax Coder  
**Country of registration:** PCT  
**Application no.:** PCT/GB 92/10623  
**Countries applicable:** DE, DK, ES, FR, GB, GR, IE, IT, NL, SE

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**Company name:** BT  
**Project:** TFTS  
**Title:** Skyphone Fax Coder  
**Country of registration:** EPO  
**Patent no.:** GB 92/02102

## TIPHON

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**Company name:** Telchemy  
**Project:** TIPHON  
**Title:** Dynamic Quality of Service Monitor  
**Country of registration:** US  
**Application no.:** 09/574,472  
**Countries applicable:** US  
**ETSI Deliverable:** TS 101 329-5  
**Notes:** The Signatory and/or its affiliates hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with clause 6.1 of the ETSI IPR Policy, in respect of the Standard, to the extent that the IPRs remain essential.

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**Company name:** Telchemy  
**Project:** TIPHON  
**Title:** Quality of Service Monitor for Multimedia Communications Systems  
**Country of registration:** US  
**Application no.:** 09/551,498  
**Countries applicable:** US  
**ETSI Deliverable:** TS 101 329-5  
**Notes:** The Signatory and/or its affiliates hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with clause 6.1 of the ETSI IPR Policy, in respect of the Standard, to the extent that the IPRs remain essential.

## UMTS

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Method of controlling communication resources  
**Country of registration:** ZA  
**Application no.:** 98/6804  
**Patent no.:** 98/6804  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Method of controlling communication resources  
**Country of registration:** US  
**Application no.:** 09/491524  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Method of controlling communication resources  
**Country of registration:** PH  
**Application no.:** 0001931  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Method of controlling communication resources  
**Country of registration:** MY  
**Application no.:** PI9803509  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Information transmission in a telecommunications system  
**Country of registration:** FI  
**Application no.:** 973394  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Method of controlling communication resources  
**Country of registration:** JP  
**Application no.:** 2000-505760  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Method of controlling communication resources  
**Country of registration:** IN  
**Application no.:** 1707MAS/98  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Method in a packet network  
**Country of registration:** EPO  
**Application no.:** 99913333.3  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Method of controlling communication resources  
**Country of registration:** FI  
**Application no.:** 973169  
**Patent no.:** 104143  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Method in a packet network  
**Country of registration:** FI  
**Application no.:** 980761  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Method of controlling communication resources  
**Country of registration:** EPO  
**Application no.:** 98936445.0  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Method of controlling communication resources  
**Country of registration:** CN  
**Application no.:** 98807783.3  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Method of controlling communication resources  
**Country of registration:** CA  
**Application no.:** 2297896  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Information transmission in a telecommunications system  
**Country of registration:** ZA  
**Application no.:** 98/7472  
**Patent no.:** 98/7472  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Information transmission in a telecommunications system  
**Country of registration:** US  
**Application no.:** 09/504996  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Information transmission in a telecommunications system
<b>Country of registration:</b>	PH
<b>Application no.:</b>	1-1998-00021
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Information transmission in a telecommunications system
<b>Country of registration:</b>	MY
<b>Application no.:</b>	PI9803775
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Information transmission in a telecommunications system
<b>Country of registration:</b>	JP
<b>Application no.:</b>	2000-510304
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Fujitsu Limited
<b>Project:</b>	UMTS
<b>Title:</b>	W-CDMA
<b>Country of registration:</b>	n/a
<b>Notes:</b>	Fujitsu Limited has declared that it has patent(s) and/or pending patent application(s) relating to WCDMA proposal. Fujitsu Limited is fully prepared to grant licenses to these patents on a fair, reasonable and non-discriminatory basis, in accordance with the terms and conditions set forth in Clause 6.1 of the ETSI IPR Policy.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Information transmission in a telecommunications system
<b>Country of registration:</b>	IN
<b>Application no.:</b>	1858/MAS/98
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Philips
<b>Project:</b>	UMTS
<b>Country of registration:</b>	n/a
<b>Notes:</b>	Philips Electronics N.V. have declared that in case ETSI adopts an ETSI standard for UMTS radio access methods, they will be prepared to grant non-exclusive licenses in compliance with the ETSI IPR Policy under their patent rights which are deemed to be essential to this ETSI standard, to any third party on the basis of full reciprocity.



<b>Company name:</b>	Alcatel
<b>Project:</b>	UMTS
<b>Title:</b>	W-CDMA, TD-CDMA
<b>Country of registration:</b>	n/a
<b>Notes:</b>	Alcatel Alsthom, Companie Générale d'Electricité has declared that their Affiliates and themselves are prepared to grant irrevocable licenses under the IPRs they own on terms and conditions which are in accordance with clause 6.1 of the ETSI IPR Policy, to the extent that the IPRs are essential for any ETSI standard relating to the TD-CDMA proposal and the W-CDMA proposal.
<b>Company name:</b>	Salbu Research & Development (pty) Ltd.
<b>Project:</b>	UMTS
<b>Title:</b>	Adaptive Communication System ODMA (enhancement to WBCDMA, TDCDMA)
<b>Country of registration:</b>	ZA
<b>Application no.:</b>	P952732
<b>Patent no.:</b>	ZA 94/10066
<b>Countries applicable:</b>	ID
<b>Company name:</b>	Salbu Research & Development (pty) Ltd.
<b>Project:</b>	UMTS
<b>Title:</b>	Method of Operating a Multi-Station Network ODMA (enhancement to WBCDMA, TDCDMA)
<b>Country of registration:</b>	ZA
<b>Patent no.:</b>	ZA 97/5022
<b>Countries applicable:</b>	ZA
<b>Company name:</b>	Salbu Research & Development (pty) Ltd.
<b>Project:</b>	UMTS
<b>Title:</b>	Adaptive Communication System ODMA (enhancement to WBCDMA, TDCDMA)
<b>Country of registration:</b>	ZA
<b>Application no.:</b>	n/a
<b>Patent no.:</b>	ZA 94/10066
<b>Countries applicable:</b>	UA
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Method in a packet network
<b>Country of registration:</b>	JP
<b>Application no.:</b>	2000-542938
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Method for connection reconfiguration in cellular radio network
<b>Country of registration:</b>	FI
<b>Application no.:</b>	980208
<b>Patent no.:</b>	106172
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

<b>Company name:</b>	NEC Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	W-CDMA
<b>Country of registration:</b>	n/a
<b>Notes:</b>	NEC Corporation has declared that it owns IPRs related to the W-CDMA technology. In the event the W-CDMA technology is elected by ETSI as a standard for UMTS radio access methods, NEC is prepared to grant licenses/cross licenses (subject to reciprocity) to the patents it has, on a fair, reasonable and non-discriminatory basis, in accordance with the terms and conditions set forth in Clause 6.1 of the ETSI IPR Policy, to that extent that the IPRs remain essential to the Standard.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	A handover method, and a cellular radio system
<b>Country of registration:</b>	US
<b>Application no.:</b>	09/043012, 09/756851
<b>Patent no.:</b>	6198928
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Speech coding
<b>Country of registration:</b>	IN
<b>Application no.:</b>	876/MAS/98
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Speech coding
<b>Country of registration:</b>	JP
<b>Application no.:</b>	113808/1998
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Speech coding
<b>Country of registration:</b>	KR
<b>Application no.:</b>	99-7009481
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Speech coding  
**Country of registration:** US  
**Application no.:** 09/073697  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** A handover method, and a cellular radio system  
**Country of registration:** AU  
**Application no.:** 32605/95  
**Patent no.:** 712159  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** A handover method, and a cellular radio system  
**Country of registration:** CN  
**Application no.:** 95197949.3  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** A handover method, and a cellular radio system  
**Country of registration:** EPO  
**Application no.:** 95929130.3  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Method for connection reconfiguration in cellular radio network  
**Country of registration:** CN  
**Application no.:** 98813368.7  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	A handover method, and a cellular radio system
<b>Country of registration:</b>	NO
<b>Application no.:</b>	980874
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Speech coding
<b>Country of registration:</b>	CN
<b>Application no.:</b>	98804901.5
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Method and system for controlling the transmission power of certain parts of a radio transmission
<b>Country of registration:</b>	BR
<b>Application no.:</b>	PI9901046-1
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Method and system for controlling the transmission power of certain parts of a radio transmission
<b>Country of registration:</b>	CN
<b>Application no.:</b>	99107517.X
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Method and system for controlling the transmission power of certain parts of a radio transmission
<b>Country of registration:</b>	EPO
<b>Application no.:</b>	99302738.2
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Method and system for controlling the transmission power of certain parts of a radio transmission
<b>Country of registration:</b>	FI
<b>Application no.:</b>	981194
<b>Patent no.:</b>	106662
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Method and system for controlling the transmission power of certain parts of a radio transmission
<b>Country of registration:</b>	HK
<b>Application no.:</b>	00102938.1
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Method and system for controlling the transmission power of certain parts of a radio transmission
<b>Country of registration:</b>	JP
<b>Application no.:</b>	11-100987
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Method and system for controlling the transmission power of certain parts of a radio transmission
<b>Country of registration:</b>	KR
<b>Application no.:</b>	99-12393
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Method and system for controlling the transmission power of certain parts of a radio transmission
<b>Country of registration:</b>	RU
<b>Application no.:</b>	99107638
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	A handover method, and a cellular radio system
<b>Country of registration:</b>	JP
<b>Application no.:</b>	9-509874
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Alcatel
<b>Project:</b>	UMTS
<b>Title:</b>	TD-CDMA
<b>Country of registration:</b>	n/a
<b>Notes:</b>	Alcatel, Robert Bosch GmbH, Italtel Spa, Motorola Inc, Northern Telecom Ltd and Siemens AG have collectively stated that they are prepared to grant under their respective essential IPRs licenses/crosslicenses (subject to reciprocity) on fair, reasonable and non-discriminatory basis (in accordance with ETSI's IPR Policy, Clause 6.1)
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Method of ciphering data transmission, and cellular radio system
<b>Country of registration:</b>	AU
<b>Application no.:</b>	20570/99
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Method of ciphering data transmission, and cellular radio system
<b>Country of registration:</b>	BR
<b>Application no.:</b>	PI9907196-7
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Method of ciphering data transmission, and cellular radio system
<b>Country of registration:</b>	CN
<b>Application no.:</b>	99802508.9
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Method of ciphering data transmission, and cellular radio system  
**Country of registration:** EPO  
**Application no.:** 99900905.3  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Method of ciphering data transmission, and cellular radio system  
**Country of registration:** FI  
**Application no.:** 980209  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Method of ciphering data transmission, and cellular radio system  
**Country of registration:** IN  
**Application no.:** 2000/00204/CHE  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Method of ciphering data transmission, and cellular radio system  
**Country of registration:** JP  
**Application no.:** 2000-529857  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Method of ciphering data transmission, and cellular radio system  
**Country of registration:** KR  
**Application no.:** 2000-7008524  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Speech coding  
**Country of registration:** FI  
**Application no.:** 980502  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Robert Bosch GmbH  
**Project:** UMTS  
**Title:** TD-CDMA  
**Country of registration:** n/a  
**Notes:** Alcatel, Robert Bosch GmbH, Italtel Spa, Motorola Inc, Northern Telecom Ltd and Siemens AG have collectively stated that they are prepared to grant under their respective essential IPRs licenses/crosslicenses (subject to reciprocity) on fair, reasonable and non-discriminatory basis (in accordance with ETSI's IPR Policy, Clause 6.1)

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Speech coding  
**Country of registration:** EPO  
**Application no.:** 98104785.5  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Method for connection reconfiguration in cellular radio network  
**Country of registration:** BR  
**Application no.:** PI9814925-3  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Method for connection reconfiguration in cellular radio network  
**Country of registration:** CA  
**Application no.:** 2318480  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.



<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Method for connection reconfiguration in cellular radio network
<b>Country of registration:</b>	EPO
<b>Application no.:</b>	98941451.1
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Data communication and radio system
<b>Country of registration:</b>	NO
<b>Application no.:</b>	19995801
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Method for connection reconfiguration in cellular radio network
<b>Country of registration:</b>	JP
<b>Application no.:</b>	2000-529860
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Method for connection reconfiguration in cellular radio network
<b>Country of registration:</b>	US
<b>Application no.:</b>	09/627526
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Speech coding
<b>Country of registration:</b>	AU
<b>Application no.:</b>	64032/98
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Method in a packet network  
**Country of registration:** US  
**Application no.:** 09/283940  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Method of ciphering data transmission, and cellular radio system  
**Country of registration:** US  
**Application no.:** 09/238313  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Improving user data packet transmission in inter SGSN routing area update in GPRS  
**Country of registration:** CN  
**Application no.:** 99802910.6  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Method of implementing macrodiversity  
**Country of registration:** JP  
**Application no.:** 2000-511310  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Improvement of soft handoffs in cellular CDMA telecommunications system  
**Country of registration:** EPO  
**Application no.:** 93920864.1  
**Countries applicable:** AT, CH, DE, ES, FR, GB, HK, IT, NL  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	A method for delivering messages in a wireless communications system using the same protocol for all types of messages
<b>Country of registration:</b>	CN
<b>Application no.:</b>	99807122.6
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	A method for delivering messages in a wireless communications system using the same protocol for all types of messages
<b>Country of registration:</b>	EPO
<b>Application no.:</b>	99931292.9
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	A method for delivering messages in a wireless communications system using the same protocol for all types of messages
<b>Country of registration:</b>	FI
<b>Application no.:</b>	981387
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	A method for delivering messages in a wireless communications system using the same protocol for all types of messages
<b>Country of registration:</b>	JP
<b>Application no.:</b>	2000-555454
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	A method for delivering messages in a wireless communications system using the same protocol for all types of messages
<b>Country of registration:</b>	US
<b>Application no.:</b>	09/719589
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** A method for delivering messages in a wireless communications system using the same protocol for all types of messages  
**Country of registration:** PCT  
**Application no.:** PCT/FI99/00518  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** AirTouch Communications  
**Project:** UMTS  
**Title:** Cellular Telephone System  
**Country of registration:** US  
**Patent no.:** 4,932,049  
**Countries applicable:** US

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Improving user data packet transmission in inter SGSN routing area update in GPRS  
**Country of registration:** CA  
**Application no.:** 2317448  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** AirTouch Communications  
**Project:** UMTS  
**Title:** Satellite Mobile Communication System for Rural Service Areas  
**Country of registration:** US  
**Patent no.:** 5,081,703  
**Countries applicable:** US

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Improving user data packet transmission in inter SGSN routing area update in GPRS  
**Country of registration:** EPO  
**Application no.:** 99903704.7  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Improving user data packet transmission in inter SGSN routing area update in GPRS  
**Country of registration:** FI  
**Application no.:** 980340  
**Patent no.:** 106424  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Improving user data packet transmission in inter SGSN routing area update in GPRS  
**Country of registration:** JP  
**Application no.:** 2000-531967  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Improving user data packet transmission in inter SGSN routing area update in GPRS  
**Country of registration:** US  
**Application no.:** 09/638463  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Method of implementing macrodiversity  
**Country of registration:** AU  
**Application no.:** 91638/98  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Method of implementing macrodiversity  
**Country of registration:** CN  
**Application no.:** 98809032.5  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Method of implementing macrodiversity  
**Country of registration:** EPO  
**Application no.:** 98943911.2  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Mobile station employing selective discontinuous transmission for high speed data services  
**Country of registration:** EPO  
**Application no.:** 98305055.0  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Outer loop power control signaling between radio network controller and base station in WCDMA systems  
**Country of registration:** PCT  
**Application no.:** PCT/EP98/07931  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** AirTouch Communications  
**Project:** UMTS  
**Title:** Microcells for Digital Cellular Telephone Systems  
**Country of registration:** US  
**Patent no.:** 5,504,936  
**Countries applicable:** US

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Delay control method  
**Country of registration:** US  
**Application no.:** 09/646776  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Multiple flow with same QOS profile in a PDP context  
**Country of registration:** BR  
**Application no.:** PI9912911-6  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Multiple flow with same QOS profile in a PDP context  
**Country of registration:** CA  
**Application no.:** 2339825  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Multiple flow with same QOS profile in a PDP context  
**Country of registration:** EPO  
**Application no.:** 99938409.2  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Multiple flow with same QOS profile in a PDP context  
**Country of registration:** FI  
**Application no.:** 981722  
**Patent no.:** 105969  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Multiple flow with same QOS profile in a PDP context  
**Country of registration:** JP  
**Application no.:** 2000-565696  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Multiple flow with same QOS profile in a PDP context  
**Country of registration:** US  
**Application no.:** 09/763001  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** AirTouch Communications  
**Project:** UMTS  
**Title:** Method and Apparatus for Fraud Control in Cellular Telephone Systems  
**Country of registration:** US  
**Patent no.:** 5,555,551  
**Countries applicable:** US

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**Company name:** Nortel Northern Telecom Ltd.  
**Project:** UMTS  
**Title:** W-CDMA  
**Country of registration:** n/a  
**Notes:** Nortel has declared that it is the owner of IPRs which might be considered essential to the W-CDMA systems standards. Nortel is prepared to grant irrevocable licenses under the IPRs, on terms and conditions which are in accordance with clause 6.1 of the ETSI IPR Policy.

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**Company name:** AirTouch Communications  
**Project:** UMTS  
**Title:** Microcell System for Cellular Telephone Systems  
**Country of registration:** US  
**Patent no.:** 5,506,147  
**Countries applicable:** US

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Method of implementing macrodiversity  
**Country of registration:** NO  
**Application no.:** 20001225  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** AirTouch Communications  
**Project:** UMTS  
**Title:** CDMA Transmission Delay Method and Apparatus  
**Country of registration:** US  
**Patent no.:** 5,479,397  
**Countries applicable:** US

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**Company name:** AirTouch Communications  
**Project:** UMTS  
**Title:** Method and Apparatus for Fraud Control in Cellular Telephone Systems Utilizing RF Signature Comparison  
**Country of registration:** US  
**Patent no.:** 5,420,910  
**Countries applicable:** US

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**Company name:** AirTouch Communications  
**Project:** UMTS  
**Title:** In-Building Telephone Communication System  
**Country of registration:** US  
**Patent no.:** 5,349,631  
**Countries applicable:** US

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**Company name:** AirTouch Communications  
**Project:** UMTS  
**Title:** Network Management System  
**Country of registration:** US  
**Patent no.:** 5,285,494  
**Countries applicable:** US

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**Company name:** AirTouch Communications  
**Project:** UMTS  
**Title:** Microcell System in Digital Cellular  
**Country of registration:** US  
**Patent no.:** 5,243,598  
**Countries applicable:** US

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**Company name:** AirTouch Communications  
**Project:** UMTS  
**Title:** Frequency Signal Generator Apparatus and Method for Simulating Interference in Mobile Communications Systems  
**Country of registration:** US  
**Patent no.:** 5,220,680  
**Countries applicable:** US



<b>Company name:</b>	AirTouch Communications
<b>Project:</b>	UMTS
<b>Title:</b>	Piggy-Back Number and Routing Isolation for Cellular Telephone Switches
<b>Country of registration:</b>	US
<b>Patent no.:</b>	5,216,703
<b>Countries applicable:</b>	US
<b>Company name:</b>	AirTouch Communications
<b>Project:</b>	UMTS
<b>Title:</b>	Zoned Microcell with Sector Scanning for Cellular Telephone System
<b>Country of registration:</b>	US
<b>Patent no.:</b>	5,193,109
<b>Countries applicable:</b>	US
<b>Company name:</b>	AirTouch Communications
<b>Project:</b>	UMTS
<b>Title:</b>	Spectral Sharing Communication System with Minimal Inter-Signal Interference
<b>Country of registration:</b>	US
<b>Patent no.:</b>	5,507,020
<b>Countries applicable:</b>	US
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Information transmission in a telecommunications system
<b>Country of registration:</b>	CA
<b>Application no.:</b>	2300986
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Method of implementing macrodiversity
<b>Country of registration:</b>	FI
<b>Application no.:</b>	9736562
<b>Patent no.:</b>	103446
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Data communication and radio system
<b>Country of registration:</b>	EPO
<b>Application no.:</b>	99913326.7
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Data communication and radio system  
**Country of registration:** FI  
**Application no.:** 980703  
**Patent no.:** 106663  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Data communication and radio system  
**Country of registration:** JP  
**Application no.:** 11-551218  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Fast sparse-algebraic-codebook search for efficient speech coding  
**Country of registration:** GB  
**Application no.:** 90915956.8  
**Patent no.:** 0516621  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Data communication and radio system  
**Country of registration:** US  
**Application no.:** 09/424081  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Method and system for controlling the transmission power of certain parts of a radio transmission  
**Country of registration:** US  
**Application no.:** 09/287844  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Mobile station employing selective discontinuous transmission for high speed data services  
**Country of registration:** JP  
**Application no.:** 10-178955  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Data communication and radio system  
**Country of registration:** AU  
**Application no.:** 31488/99  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Mobile station employing selective discontinuous transmission for high speed data services  
**Country of registration:** US  
**Application no.:** 08/882822  
**Patent no.:** 6137789  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Method for transmitting two parallel channels using code division and an apparatus realising the method  
**Country of registration:** US  
**Application no.:** 09/086077  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Information transmission in a telecommunications system  
**Country of registration:** CN  
**Application no.:** 98809189.5  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Information transmission in a telecommunications system
<b>Country of registration:</b>	EPO
<b>Application no.:</b>	98939666.8
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Motorola
<b>Project:</b>	UMTS
<b>Title:</b>	W-CDMA
<b>Country of registration:</b>	n/a
<b>Notes:</b>	Motorola have stated that they have not yet finally determined whether or not their IPRs are in fact essential to the W-CDMA proposal and does not know what will be the final contents of the proposal in the event of adoption. Motorola will, however, agree to grant licenses under its IPR essential to a W-CDMA standard, if and when adopted by ETSI, on fair, reasonable, and non-discriminatory terms in accordance with Clause 6.1 of the ETSI IPR Policy, provided that those who seek licenses agree to reciprocate.
<b>Company name:</b>	Canon
<b>Project:</b>	UMTS
<b>Title:</b>	UTRA
<b>Country of registration:</b>	n/a
<b>Notes:</b>	Canon (Canon Research France - CRF) has declared that, in the event the proposed standard is adopted, it is ready to grant licenses under the Essential IPR(s) of the "standard", owned by CRF, on fair, reasonable and non-discriminatory terms and conditions, and provided that a similar grant under licensee's Essential IPR(s) is made available upon request of CRF.
<b>Company name:</b>	Siemens
<b>Project:</b>	UMTS
<b>Title:</b>	Method and arrangement for joint channel estimation in a digital multiple access communication system
<b>Country of registration:</b>	DE
<b>Patent no.:</b>	4 212 300
<b>Countries applicable:</b>	DE
<b>Company name:</b>	Siemens
<b>Project:</b>	UMTS
<b>Title:</b>	Method and arrangement for transmitting information in a digital radio system
<b>Country of registration:</b>	US
<b>Patent no.:</b>	5 648 967
<b>Countries applicable:</b>	US
<b>Company name:</b>	Texas Instruments
<b>Project:</b>	UMTS
<b>Country of registration:</b>	n/a
<b>Notes:</b>	Texas Instruments France has informed ETSI that, in relation to UMTS, TI (and/or affiliates) has many patents and that it would be burdensome to identify whether or not any particular patent applies to a particular proposal. TI (and/or affiliates) has a practice of filing patent applications on innovative developments in its various business areas, but cannot tell in advance the scope of the patents, if any, that may issue on such applications.
<b>Company name:</b>	Robert Bosch GmbH
<b>Project:</b>	UMTS
<b>Title:</b>	TD-CDMA, W-CDMA
<b>Country of registration:</b>	n/a
<b>Notes:</b>	Robert Bosch GMBH has confirmed that it is prepared to grant irrevocable licenses under its IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, provided that the patents it has become essential for the TD-CDMA and/or the W-CDMA proposal(s).

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Mobile station employing selective discontinuous transmission for high speed data services  
**Country of registration:** KR  
**Application no.:** 98-21536  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Method for transmitting two parallel channels using code division and an apparatus realising the method  
**Country of registration:** DE  
**Application no.:** 19823504.6  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Method of implementing macrodiversity  
**Country of registration:** US  
**Application no.:** 09/520387  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Multiple pilot signals in a CDMA cellular communication system  
**Country of registration:** AU  
**Application no.:** 5820896  
**Patent no.:** 707721  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Multiple pilot signals in a CDMA cellular communication system  
**Country of registration:** CN  
**Application no.:** 96190676.6  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Multiple pilot signals in a CDMA cellular communication system  
**Country of registration:** EPO  
**Application no.:** 96919814  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Multiple pilot signals in a CDMA cellular communication system  
**Country of registration:** FI  
**Application no.:** 952532  
**Patent no.:** 98171  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Multiple pilot signals in a CDMA cellular communication system  
**Country of registration:** JP  
**Application no.:** 8535425  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Multiple pilot signals in a CDMA cellular communication system  
**Country of registration:** NO  
**Application no.:** 970300  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Multiple pilot signals in a CDMA cellular communication system  
**Country of registration:** US  
**Application no.:** 08/776263  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Data communication and radio system  
**Country of registration:** CN  
**Application no.:** 99800395.6  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Method for transmitting two parallel channels using code division and an apparatus realising the method  
**Country of registration:** CN  
**Application no.:** 98109343.4  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Lucent Technologies Inc.  
**Project:** UMTS  
**Country of registration:** n/a  
**Notes:** Lucent Technologies Inc. has informed ETSI that it is likely to have IPRs essential to UMTS and that it is prepared to make a license relating to the ETSI UMTS Terrestrial Radio Access Interface standard available to any qualified applicant, upon reasonable, non-discriminatory terms and conditions. Representative: Mr. P. J. Crefeld (tel: +1 908 903 6262 / fax: +1 908 903 6319) for licensing matters.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Method for transmitting two parallel channels using code division and an apparatus realising the method  
**Country of registration:** EPO  
**Application no.:** 98304282.1  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Method for transmitting two parallel channels using code division and an apparatus realising the method  
**Country of registration:** FI  
**Application no.:** 972278  
**Patent no.:** 105377  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Method for transmitting two parallel channels using code division and an apparatus realising the method
<b>Country of registration:</b>	GB
<b>Application no.:</b>	9811666.8
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Method for transmitting two parallel channels using code division and an apparatus realising the method
<b>Country of registration:</b>	HK
<b>Application no.:</b>	99102590.2
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Method for transmitting two parallel channels using code division and an apparatus realising the method
<b>Country of registration:</b>	IN
<b>Application no.:</b>	1164/MAS/98
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Method for transmitting two parallel channels using code division and an apparatus realising the method
<b>Country of registration:</b>	JP
<b>Application no.:</b>	140709/1998
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Method for transmitting two parallel channels using code division and an apparatus realising the method
<b>Country of registration:</b>	KR
<b>Application no.:</b>	98-19478
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.



<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Method for transmitting two parallel channels using code division and an apparatus realising the method
<b>Country of registration:</b>	RU
<b>Application no.:</b>	98110072
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Method for transmitting two parallel channels using code division and an apparatus realising the method
<b>Country of registration:</b>	BR
<b>Application no.:</b>	PI9801707-1
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Sophisticated location update for cellular mobile stations
<b>Country of registration:</b>	AU
<b>Application no.:</b>	2778795
<b>Patent no.:</b>	694242
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Speech decoder having post processing excitation
<b>Country of registration:</b>	JP
<b>Application no.:</b>	9-502809
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Speech decoder having post processing excitation
<b>Country of registration:</b>	RU
<b>Application no.:</b>	98101107
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Speech decoder having post processing excitation  
**Country of registration:** US  
**Application no.:** 08/662991, 09/135936  
**Patent no.:** 6029128, 5946651  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Virtual packet channel over cellular network  
**Country of registration:** CN  
**Application no.:** 95100020.9  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Virtual packet channel over cellular network  
**Country of registration:** EE  
**Application no.:** P9400344  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Virtual packet channel over cellular network  
**Country of registration:** EPO  
**Application no.:** 94306531.8  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Virtual packet channel over cellular network  
**Country of registration:** FI  
**Application no.:** 933894  
**Patent no.:** 97517  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Framing technique for a multi-rate CDMA communication system  
**Country of registration:** CN  
**Application no.:** 97118537.9  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Virtual packet channel over cellular network  
**Country of registration:** US  
**Application no.:** 08/724375, 09/143494  
**Patent no.:** 5802465, 6167248  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Speech decoder having post processing excitation  
**Country of registration:** EPO  
**Application no.:** 96920925.3  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Sophisticated location update for cellular mobile stations  
**Country of registration:** CN  
**Application no.:** 95192480.X  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Sophisticated location update for cellular mobile stations  
**Country of registration:** EPO  
**Application no.:** 95915211.7  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Sophisticated location update for cellular mobile stations  
**Country of registration:** FI  
**Application no.:** 941652  
**Patent no.:** 95984  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Sophisticated location update for cellular mobile stations  
**Country of registration:** HK  
**Application no.:** 98112522.5  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Sophisticated location update for cellular mobile stations  
**Country of registration:** JP  
**Application no.:** 7526100  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Sophisticated location update for cellular mobile stations  
**Country of registration:** US  
**Application no.:** 718512  
**Patent no.:** 5889770  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Depth-first algebraic-codebook search for fast coding of speech  
**Country of registration:** KR  
**Application no.:** 97-706298  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Virtual packet channel over cellular network  
**Country of registration:** JP  
**Application no.:** 6-213046  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Predictive split-matrix quantization of spectral parameters for efficient coding of speech  
**Country of registration:** CN  
**Application no.:** 96193827.7  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Fast sparse-algebraic-codebook search for efficient speech coding  
**Country of registration:** ES  
**Application no.:** 90915956.8  
**Patent no.:** 0516621  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Depth-first algebraic-codebook search for fast coding of speech  
**Country of registration:** MY  
**Application no.:** PI9600844  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Depth-first algebraic-codebook search for fast coding of speech  
**Country of registration:** RU  
**Application no.:** 97116484  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Depth-first algebraic-codebook search for fast coding of speech  
**Country of registration:** SE  
**Application no.:** 9600918-8  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Depth-first algebraic-codebook search for fast coding of speech  
**Country of registration:** US  
**Application no.:** 383968, 509525  
**Patent no.:** 5701392  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Depth-first algebraic-codebook search for fast coding of speech  
**Country of registration:** ZA  
**Application no.:** 96/1913  
**Patent no.:** 96/1913  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Predictive split-matrix quantization of spectral parameters for efficient coding of speech  
**Country of registration:** AU  
**Application no.:** 52633/96  
**Patent no.:** 697256  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Speech decoder having post processing excitation  
**Country of registration:** IN  
**Application no.:** 1054/MAS/96  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Predictive split-matrix quantization of spectral parameters for efficient coding of speech  
**Country of registration:** CA  
**Application no.:** 2216315  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Speech decoder having post processing excitation  
**Country of registration:** ES  
**Application no.:** P9750009  
**Patent no.:** 9750009  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Predictive split-matrix quantization of spectral parameters for efficient coding of speech  
**Country of registration:** EPO  
**Application no.:** 96908945.7  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Predictive split-matrix quantization of spectral parameters for efficient coding of speech  
**Country of registration:** JP  
**Application no.:** 08-529817  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Predictive split-matrix quantization of spectral parameters for efficient coding of speech  
**Country of registration:** US  
**Application no.:** 416019  
**Patent no.:** 5664053  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Speech decoder having post processing excitation  
**Country of registration:** AU  
**Application no.:** 62309/96  
**Patent no.:** 714752  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Speech decoder having post processing excitation  
**Country of registration:** BR  
**Application no.:** 9608479-0  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Speech decoder having post processing excitation  
**Country of registration:** CA  
**Application no.:** 2224688  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Speech decoder having post processing excitation  
**Country of registration:** CN  
**Application no.:** 96196226.7  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Framing technique for a multi-rate CDMA communication system  
**Country of registration:** EPO  
**Application no.:** 97307038.6  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.



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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Predictive split-matrix quantization of spectral parameters for efficient coding of speech  
**Country of registration:** BR  
**Application no.:** 9604838.7  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Management of packet switched connections in a communication network  
**Country of registration:** US  
**Application no.:** 09/510893  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Location update method and inter core network entity handover method  
**Country of registration:** CN  
**Application no.:** 99808674.6  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Location update method and inter core network entity handover method  
**Country of registration:** EPO  
**Application no.:** 99928487.0  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Location update method and inter core network entity handover method  
**Country of registration:** JP  
**Application no.:** 2000-555450  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Location update method and inter core network entity handover method
<b>Country of registration:</b>	US
<b>Application no.:</b>	09/098216, 09/271191
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Management of packet switched connections in a communication network
<b>Country of registration:</b>	CA
<b>Application no.:</b>	2301674
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Management of packet switched connections in a communication network
<b>Country of registration:</b>	CN
<b>Application no.:</b>	99801026.X
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Management of packet switched connections in a communication network
<b>Country of registration:</b>	EPO
<b>Application no.:</b>	99932900.6
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Framing technique for a multi-rate CDMA communication system
<b>Country of registration:</b>	BR
<b>Application no.:</b>	PI9704680-9
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Management of packet switched connections in a communication network
<b>Country of registration:</b>	JP
<b>Application no.:</b>	2000-557636
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Method for establishing a signaling connection with a mobile station
<b>Country of registration:</b>	JP
<b>Application no.:</b>	2000-542947
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Code allocation in soft handover
<b>Country of registration:</b>	AU
<b>Application no.:</b>	26750/00
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Code allocation in soft handover
<b>Country of registration:</b>	CN
<b>Application no.:</b>	00800191.X
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Code allocation in soft handover
<b>Country of registration:</b>	EPO
<b>Application no.:</b>	00905100.4
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Code allocation in soft handover  
**Country of registration:** FI  
**Application no.:** 990363  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Code allocation in soft handover  
**Country of registration:** JP  
**Application no.:** 2000-600435  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Code allocation in soft handover  
**Country of registration:** NO  
**Application no.:** 20005238  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Code allocation in soft handover  
**Country of registration:** US  
**Application no.:** 09/673579  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Management of packet switched connections in a communication network  
**Country of registration:** FI  
**Application no.:** 981485  
**Patent no.:** 106512  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Delayed frame acknowledge in a sliding-window flow control protocol  
**Country of registration:** JP  
**Application no.:** 8533810  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Framing technique for a multi-rate CDMA communication system  
**Country of registration:** JP  
**Application no.:** 247260/1997  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Framing technique for a multi-rate CDMA communication system  
**Country of registration:** KR  
**Application no.:** 97-46432  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Framing technique for a multi-rate CDMA communication system  
**Country of registration:** US  
**Application no.:** 712309  
**Patent no.:** 5859843  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Delayed frame acknowledge in a sliding-window flow control protocol  
**Country of registration:** AU  
**Application no.:** 5650696  
**Patent no.:** 708324  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Delayed frame acknowledge in a sliding-window flow control protocol
<b>Country of registration:</b>	CA
<b>Application no.:</b>	2193379
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Delayed frame acknowledge in a sliding-window flow control protocol
<b>Country of registration:</b>	CN
<b>Application no.:</b>	96190461.5
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Delayed frame acknowledge in a sliding-window flow control protocol
<b>Country of registration:</b>	EPO
<b>Application no.:</b>	96913557
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Location update method and inter core network entity handover method
<b>Country of registration:</b>	CA
<b>Application no.:</b>	2334654
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Delayed frame acknowledge in a sliding-window flow control protocol
<b>Country of registration:</b>	HK
<b>Application no.:</b>	98101125.9
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Method for establishing a signaling connection with a mobile station  
**Country of registration:** US  
**Application no.:** 09/647022  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Delayed frame acknowledge in a sliding-window flow control protocol  
**Country of registration:** KR  
**Application no.:** 707574  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Delayed frame acknowledge in a sliding-window flow control protocol  
**Country of registration:** SG  
**Application no.:** 96122478  
**Patent no.:** 36469  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Delayed frame acknowledge in a sliding-window flow control protocol  
**Country of registration:** US  
**Application no.:** 765067,  
**Patent no.:** 5930233  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Method for establishing a signaling connection with a mobile station  
**Country of registration:** BR  
**Application no.:** PI9909396-0  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Method for establishing a signaling connection with a mobile station
<b>Country of registration:</b>	CN
<b>Application no.:</b>	99804784.8
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Method for establishing a signaling connection with a mobile station
<b>Country of registration:</b>	EPO
<b>Application no.:</b>	99913342.4
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Method for establishing a signaling connection with a mobile station
<b>Country of registration:</b>	FI
<b>Application no.:</b>	980783
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Depth-first algebraic-codebook search for fast coding of speech
<b>Country of registration:</b>	JP
<b>Application no.:</b>	527130/96
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Delayed frame acknowledge in a sliding-window flow control protocol
<b>Country of registration:</b>	FI
<b>Application no.:</b>	952256
<b>Patent no.:</b>	98174
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.



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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Vector adaptive predictive coder for speech and audio  
**Country of registration:** DE  
**Application no.:** 92108904.1  
**Patent no.:** 0503684  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Fast sparse-algebraic-codebook search for efficient speech coding  
**Country of registration:** FR  
**Application no.:** 90915956.8  
**Patent no.:** 0516621  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Multiple flow with same QOS profile in a PDP context  
**Country of registration:** PCT  
**Application no.:** PCT/FI99/00661  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Fast sparse-algebraic-codebook search for efficient speech coding  
**Country of registration:** GR  
**Application no.:** 90915956.8  
**Patent no.:** 0516621  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Fast sparse-algebraic-codebook search for efficient speech coding  
**Country of registration:** IT  
**Application no.:** 90915956.8  
**Patent no.:** 0516621  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Fast sparse-algebraic-codebook search for efficient speech coding
<b>Country of registration:</b>	LI
<b>Application no.:</b>	90915956.8
<b>Patent no.:</b>	0516621
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Fast sparse-algebraic-codebook search for efficient speech coding
<b>Country of registration:</b>	LU
<b>Application no.:</b>	90915956.8
<b>Patent no.:</b>	0516621
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Fast sparse-algebraic-codebook search for efficient speech coding
<b>Country of registration:</b>	NL
<b>Application no.:</b>	90915956.8
<b>Patent no.:</b>	0516621
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Algebraic codebook with signal-selected pulse amplitude/position combinations for fast coding of speech
<b>Country of registration:</b>	AU
<b>Application no.:</b>	44796/96
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Fast sparse-algebraic-codebook search for efficient speech coding
<b>Country of registration:</b>	US
<b>Application no.:</b>	927528, 438703
<b>Patent no.:</b>	5444816, 5699482
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Fast sparse-algebraic-codebook search for efficient speech coding  
**Country of registration:** DK  
**Application no.:** 90915956.8  
**Patent no.:** 0516621  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Vector adaptive predictive coder for speech and audio  
**Country of registration:** EPO  
**Application no.:** 92108904.1  
**Patent no.:** 0503684  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Vector adaptive predictive coder for speech and audio  
**Country of registration:** FR  
**Application no.:** 92108904.1  
**Patent no.:** 0503684  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Vector adaptive predictive coder for speech and audio  
**Country of registration:** GB  
**Application no.:** 92108904.1  
**Patent no.:** 0503684  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Vector adaptive predictive coder for speech and audio  
**Country of registration:** IT  
**Application no.:** 92108904.1  
**Patent no.:** 0503684  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Vector adaptive predictive coder for speech and audio  
**Country of registration:** JP  
**Application no.:** 84973/1988  
**Patent no.:** 2887286  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Vector adaptive predictive coder for speech and audio  
**Country of registration:** US  
**Application no.:** 035615  
**Patent no.:** 4969192  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Depth-first algebraic-codebook search for fast coding of speech  
**Country of registration:** MX  
**Application no.:** 97/06885  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Fast sparse-algebraic-codebook search for efficient speech coding  
**Country of registration:** SE  
**Application no.:** 90915956.8  
**Patent no.:** 0516621  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Flexible synchronization of WCDMA base stations  
**Country of registration:** GB  
**Application no.:** 9819482.2  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Power balancing between downlink DHO branches in a CDMA system
<b>Country of registration:</b>	CN
<b>Application no.:</b>	99804689.2
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Power balancing between downlink DHO branches in a CDMA system
<b>Country of registration:</b>	EPO
<b>Application no.:</b>	99911842.5
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Power balancing between downlink DHO branches in a CDMA system
<b>Country of registration:</b>	FI
<b>Application no.:</b>	980780
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Power balancing between downlink DHO branches in a CDMA system
<b>Country of registration:</b>	JP
<b>Application no.:</b>	2000-542942
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Power balancing between downlink DHO branches in a CDMA system
<b>Country of registration:</b>	US
<b>Application no.:</b>	PCT/FI99/00257
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Use of rate information (TFCl) signalling in soft handover with multicode downlink transmission
<b>Country of registration:</b>	GB
<b>Application no.:</b>	9911084.3
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Use of rate information (TFCl) signalling in soft handover with multicode downlink transmission
<b>Country of registration:</b>	PCT
<b>Application no.:</b>	PCT/EP00/03699
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Delay control method
<b>Country of registration:</b>	JP
<b>Application no.:</b>	2000-541783
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Flexible synchronization of WCDMA base stations
<b>Country of registration:</b>	EPO
<b>Application no.:</b>	99940435.3
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Fast sparse-algebraic-codebook search for efficient speech coding
<b>Country of registration:</b>	EPO
<b>Application no.:</b>	90915956.8
<b>Patent no.:</b>	0516621
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Flexible synchronization of WCDMA base stations  
**Country of registration:** JP  
**Application no.:** 569534/2000  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Flexible synchronization of WCDMA base stations  
**Country of registration:** US  
**Application no.:** 09/786772  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Fast sparse-algebraic-codebook search for efficient speech coding  
**Country of registration:** AT  
**Application no.:** 90915956.8  
**Patent no.:** 0516621  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Fast sparse-algebraic-codebook search for efficient speech coding  
**Country of registration:** BE  
**Application no.:** 90915956.8  
**Patent no.:** 0516621  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Fast sparse-algebraic-codebook search for efficient speech coding  
**Country of registration:** CA  
**Application no.:** 2010830  
**Patent no.:** 2010930  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Fast sparse-algebraic-codebook search for efficient speech coding
<b>Country of registration:</b>	CH
<b>Application no.:</b>	90915956.8
<b>Patent no.:</b>	0516621
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Fast sparse-algebraic-codebook search for efficient speech coding
<b>Country of registration:</b>	DE
<b>Application no.:</b>	90915956.8
<b>Patent no.:</b>	0516621
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Algebraic codebook with signal-selected pulse amplitude/position combinations for fast coding of speech
<b>Country of registration:</b>	BR
<b>Application no.:</b>	9607026.9
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Flexible synchronization of WCDMA base stations
<b>Country of registration:</b>	BR
<b>Application no.:</b>	PI9913452-7
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Depth-first algebraic-codebook search for fast coding of speech
<b>Country of registration:</b>	DE
<b>Application no.:</b>	19609170.5
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.



<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Depth-first algebraic-codebook search for fast coding of speech
<b>Country of registration:</b>	AR
<b>Application no.:</b>	P960101681
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Omnipoint
<b>Project:</b>	UMTS
<b>Title:</b>	W-CDMA, TD/CDMA
<b>Country of registration:</b>	n/a
<b>Notes:</b>	Omnipoint Corporation has declared that it holds IPRs which are Essential to the UMTS/UTRA proposals, including, without limitation, W-CDMA and TD/CDMA. Omnipoint is prepared to grant licenses/cross-licenses to Essential IPRs on a fair, reasonable and non-discriminatory basis in accordance with Clause 6.1 of ETSI IPR Policy.
<b>Company name:</b>	CEETT
<b>Project:</b>	UMTS
<b>Country of registration:</b>	n/a
<b>Notes:</b>	CEETT (Centre Commun d'Etudes de Télédiffusion et Télécommunications) has declared that it is prepared to grant irrevocable licenses under IPRs it controls and which may be considered Essential (the IPRs) to the Standards UMTS (the Standards), granted or pending, relatively to the different technologies of the Standards as UTRA, access network, core network, SIM, etc., on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the Standard, to the extent that IPRs remain Essential.
<b>Company name:</b>	Samsung Electronics Corporation (SEC)
<b>Project:</b>	UMTS
<b>Country of registration:</b>	n/a
<b>Notes:</b>	With regard to the W-CDMA technology being elaborated by ETSI as a standard for the UMTS Terrestrial Radio Access (UTRA) FDD mode, SEC is prepared to grant licenses to its essential IPRs on a fair, reasonable, and non-discriminatory basis in accordance with the terms and conditions set forth in Clause 6.1 of the ETSI IPR Policy.
<b>Company name:</b>	France Telecom
<b>Project:</b>	UMTS
<b>Country of registration:</b>	n/a
<b>Notes:</b>	France Télécom has declared that it is prepared to grant irrevocable licenses under its IPRs that may be considered Essential (the IPRs) to the Standards UMTS (the Standards), granted or pending, relatively to the different technologies of the Standards as UTRA, access network, core network, SIM, etc., on terms and conditions which are in accordance with Clause 6.1 of the ETSI Interim Policy, in respect of the Standards, to the extent that the IPRs remain Essential. The above undertaking may be made subject to the condition that those seek licenses agree to reciprocate in licenses incorporating have made rights.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Depth-first algebraic-codebook search for fast coding of speech
<b>Country of registration:</b>	AU
<b>Application no.:</b>	47811/96
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Depth-first algebraic-codebook search for fast coding of speech
<b>Country of registration:</b>	BR
<b>Application no.:</b>	PI9607144.3
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Algebraic codebook with signal-selected pulse amplitude/position combinations for fast coding of speech
<b>Country of registration:</b>	AR
<b>Application no.:</b>	0335305
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Depth-first algebraic-codebook search for fast coding of speech
<b>Country of registration:</b>	CN
<b>Application no.:</b>	96193196.5
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Algebraic codebook with signal-selected pulse amplitude/position combinations for fast coding of speech
<b>Country of registration:</b>	SE
<b>Application no.:</b>	9600437-9
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Depth-first algebraic-codebook search for fast coding of speech
<b>Country of registration:</b>	EPO
<b>Application no.:</b>	96903854.6
<b>Patent no.:</b>	0813736
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Depth-first algebraic-codebook search for fast coding of speech  
**Country of registration:** ES  
**Application no.:** 9650035  
**Patent no.:** 9650035  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Depth-first algebraic-codebook search for fast coding of speech  
**Country of registration:** FR  
**Application no.:** 9602957  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Depth-first algebraic-codebook search for fast coding of speech  
**Country of registration:** GB  
**Application no.:** 9605123.0  
**Patent no.:** 2299001  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Depth-first algebraic-codebook search for fast coding of speech  
**Country of registration:** HK  
**Application no.:** 98100818.3  
**Patent no.:** 1001846  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Depth-first algebraic-codebook search for fast coding of speech  
**Country of registration:** IN  
**Application no.:** 422CAL96  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Depth-first algebraic-codebook search for fast coding of speech  
**Country of registration:** IT  
**Application no.:** TO96A000174  
**Patent no.:** 01285305  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Depth-first algebraic-codebook search for fast coding of speech  
**Country of registration:** CA  
**Application no.:** 2213740  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Algebraic codebook with signal-selected pulse amplitude/position combinations for fast coding of speech  
**Country of registration:** IN  
**Application no.:** 198CAL96  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Algebraic codebook with signal-selected pulse amplitude/position combinations for fast coding of speech  
**Country of registration:** CA  
**Application no.:** 2210765  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Algebraic codebook with signal-selected pulse amplitude/position combinations for fast coding of speech  
**Country of registration:** CN  
**Application no.:** 96193095.0  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Algebraic codebook with signal-selected pulse amplitude/position combinations for fast coding of speech  
**Country of registration:** DE  
**Application no.:** 19604273.9  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Algebraic codebook with signal-selected pulse amplitude/position combinations for fast coding of speech  
**Country of registration:** EPO  
**Application no.:** 96900816.8  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Algebraic codebook with signal-selected pulse amplitude/position combinations for fast coding of speech  
**Country of registration:** ES  
**Application no.:** 9650025  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Algebraic codebook with signal-selected pulse amplitude/position combinations for fast coding of speech  
**Country of registration:** FI  
**Application no.:** 973241  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Algebraic codebook with signal-selected pulse amplitude/position combinations for fast coding of speech  
**Country of registration:** FR  
**Application no.:** 9601426  
**Patent no.:** 2730336  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Algebraic codebook with signal-selected pulse amplitude/position combinations for fast coding of speech  
**Country of registration:** ZA  
**Application no.:** 96/0852  
**Patent no.:** 96/0852  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Algebraic codebook with signal-selected pulse amplitude/position combinations for fast coding of speech  
**Country of registration:** HK  
**Application no.:** 98101406.9  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Algebraic codebook with signal-selected pulse amplitude/position combinations for fast coding of speech  
**Country of registration:** US  
**Application no.:** 383968, 508801  
**Patent no.:** 5754976  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Algebraic codebook with signal-selected pulse amplitude/position combinations for fast coding of speech  
**Country of registration:** IT  
**Application no.:** UD96A000012  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Algebraic codebook with signal-selected pulse amplitude/position combinations for fast coding of speech  
**Country of registration:** JP  
**Application no.:** 523852/96  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Algebraic codebook with signal-selected pulse amplitude/position combinations for fast coding of speech
<b>Country of registration:</b>	KR
<b>Application no.:</b>	705372
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Algebraic codebook with signal-selected pulse amplitude/position combinations for fast coding of speech
<b>Country of registration:</b>	MX
<b>Application no.:</b>	975997
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Algebraic codebook with signal-selected pulse amplitude/position combinations for fast coding of speech
<b>Country of registration:</b>	MY
<b>Application no.:</b>	PI9600300
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Algebraic codebook with signal-selected pulse amplitude/position combinations for fast coding of speech
<b>Country of registration:</b>	NO
<b>Application no.:</b>	973472
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Algebraic codebook with signal-selected pulse amplitude/position combinations for fast coding of speech
<b>Country of registration:</b>	RU
<b>Application no.:</b>	97114804
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Power balancing between downlink DHO branches in a CDMA system  
**Country of registration:** BR  
**Application no.:** PI9909387-1  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Algebraic codebook with signal-selected pulse amplitude/position combinations for fast coding of speech  
**Country of registration:** GB  
**Application no.:** 9602391.6  
**Patent no.:** 2297671  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Mobile communications  
**Country of registration:** CN  
**Application no.:** 97181963.7  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Data transmission method, and radio system  
**Country of registration:** EPO  
**Application no.:** 97940174.2  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Data transmission method, and radio system  
**Country of registration:** FI  
**Application no.:** 963518  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.



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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Data transmission method, and radio system  
**Country of registration:** JP  
**Application no.:** 10-512290  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Data transmission method, and radio system  
**Country of registration:** NO  
**Application no.:** 19991095  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Data transmission method, and radio system  
**Country of registration:** US  
**Application no.:** 09/230496  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Method and device for voice activity detection and a communication device  
**Country of registration:** EPO  
**Application no.:** 96118504.8  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Method and device for voice activity detection and a communication device  
**Country of registration:** JP  
**Application no.:** 08-331874  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** WCDMA packet mode code resource allocation mechanism in the downlink  
**Country of registration:** CN  
**Application no.:** 99801086.3  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Mobile communications  
**Country of registration:** BR  
**Application no.:** 9713654-9  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Audio coding method and apparatus  
**Country of registration:** US  
**Application no.:** 09/036102  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Mobile communications  
**Country of registration:** EPO  
**Application no.:** 97300015.1, 97954953.2  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Mobile communications  
**Country of registration:** JP  
**Application no.:** 10-529608  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Mobile communications
<b>Country of registration:</b>	KR
<b>Application no.:</b>	99-7005960
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Mobile communications
<b>Country of registration:</b>	US
<b>Application no.:</b>	08/996929
<b>Patent no.:</b>	5946634
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	WCDMA packet mode code resource allocation mechanism in the downlink
<b>Country of registration:</b>	AU
<b>Application no.:</b>	51651/99
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Ericsson
<b>Project:</b>	UMTS
<b>Title:</b>	W-CDMA, TD-CDMA
<b>Country of registration:</b>	n/a
<b>Notes:</b>	Ericsson has declared that it has patent(s) and/or pending patent application(s) relating to the W-CDMA proposal and the TD-CDMA proposal Ericsson is fully prepared to grant licenses to these patents on fair, reasonable and non-discriminatory basis in accordance with the terms and conditions set forth in Clause 6.1 of the ETSI IPR Policy.
<b>Company name:</b>	Nokia
<b>Project:</b>	UMTS
<b>Title:</b>	W-CDMA
<b>Country of registration:</b>	n/a
<b>Notes:</b>	Nokia is prepared to grant under its respective essential IPRs licenses/crosslicenses (subject to reciprocity) on a fair, reasonable and non discriminatory basis (in accordance with ETSI's IPR Policy Clause 6.1)
<b>Company name:</b>	Telia AB
<b>Project:</b>	UMTS
<b>Country of registration:</b>	n/a
<b>Application no.:</b>	9602401-3
<b>Countries applicable:</b>	SE
<b>Notes:</b>	This statement is made 10 February 1999 by Telia AB, a Member of ETSI. In accordance with the ETSI Interim IPR Policy, Article 4.1. Telia AB hereby inform ETSI that with reference to ETSI Standards it is the belief of Telia AB that the following IPRs are, or are likely to become, Essential IPRs in relation to ETSI Standards.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Method and device for voice activity detection and a communication device  
**Country of registration:** US  
**Application no.:** 08/763975  
**Patent no.:** 5963901  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Audio coding method and apparatus  
**Country of registration:** DE  
**Application no.:** 19811039.1  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Refined TX-AA mode  
**Country of registration:** PCT  
**Application no.:** PCT/EP99/03440  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Improvement of soft handoffs in cellular CDMA telecommunications system  
**Country of registration:** AU  
**Application no.:** 48209/93  
**Patent no.:** 681595  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Hitachi Ltd.  
**Project:** UMTS  
**Title:** n/a  
**Country of registration:** n/a  
**Application no.:** n/a  
**Patent no.:** n/a  
**ETSI Deliverable:** n/a  
**Notes:** Hitachi, Ltd. Is ready to license its own Intellectual Property Right(s), which is deemed to be necessary to implement the standard IMT 2000 (or UMTS, W-CDMA) relating to the third generation public mobile telephone systems, on fair, reasonable, non-exclusive and non-discriminatory terms and conditions to a party, who accepts an equivalent undertaking with regard to this standard.

<b>Company name:</b>	AirTouch Communications
<b>Project:</b>	UMTS
<b>Title:</b>	Digital Microcells for Cellular Networks
<b>Country of registration:</b>	US
<b>Patent no.:</b>	5,678,186
<b>Countries applicable:</b>	US
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Improvement of soft handoffs in cellular CDMA telecommunications system
<b>Country of registration:</b>	FI
<b>Application no.:</b>	961313
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Improvement of soft handoffs in cellular CDMA telecommunications system
<b>Country of registration:</b>	JP
<b>Application no.:</b>	7-509576
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Improvement of soft handoffs in cellular CDMA telecommunications system
<b>Country of registration:</b>	NO
<b>Application no.:</b>	961194
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Improvement of soft handoffs in cellular CDMA telecommunications system
<b>Country of registration:</b>	US
<b>Application no.:</b>	08/619461
<b>Patent no.:</b>	6009328
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Data transmission method, and radio system
<b>Country of registration:</b>	CN
<b>Application no.:</b>	97197705.4
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Audio coding method and apparatus  
**Country of registration:** CN  
**Application no.:** 98104180.9  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Data transmission method, and radio system  
**Country of registration:** AU  
**Application no.:** 42105/97  
**Patent no.:** 723996  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Audio coding method and apparatus  
**Country of registration:** EPO  
**Application no.:** 98904191.8  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Audio coding method and apparatus  
**Country of registration:** FI  
**Application no.:** 971108  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Audio coding method and apparatus  
**Country of registration:** FR  
**Application no.:** 9803135  
**Patent no.:** 9803135  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Audio coding method and apparatus  
**Country of registration:** GB  
**Application no.:** 9805294.7  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Audio coding method and apparatus  
**Country of registration:** JP  
**Application no.:** 10-63514  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Audio coding method and apparatus  
**Country of registration:** KR  
**Application no.:** 99-7008369  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Audio coding method and apparatus  
**Country of registration:** SE  
**Application no.:** 9800776-8  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Panasonic  
**Project:** UMTS  
**Title:** W-CDMA  
**Country of registration:** n/a  
**Notes:** Panasonic Matsushita Communication Industrial UK Ltd. declared that they are prepared to grant licenses/cross licenses (subject to reciprocity) under the essential IPRs on fair, reasonable and non-discriminatory basis in accordance with Clause 6.1 of the ETSI IPR Policy.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Audio coding method and apparatus  
**Country of registration:** AU  
**Application no.:** 62164/98  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Menetelmä ja järjestely pakettidatan siirron hallitsemiseksi solukkojärjestelmässä  
**Country of registration:** PCT  
**Application no.:** PCT/FI00/00137  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Initialisation of UE specific frame number for air interface ciphering  
**Country of registration:** EPO  
**Application no.:** 99956044.4  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Initialisation of UE specific frame number for air interface ciphering  
**Country of registration:** FI  
**Application no.:** 990499, 991184  
**Patent no.:** 106494  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Initialisation of UE specific frame number for air interface ciphering  
**Country of registration:** US  
**Application no.:** PCT/FI99/00926  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.



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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Initialisation of UE specific frame number for air interface ciphering  
**Country of registration:** PCT  
**Application no.:** PCT/FI99/00926  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** On managing the ciphering keys in UMTS system with double MM  
**Country of registration:** CA  
**Application no.:** PCT/FI99/01010  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** On managing the ciphering keys in UMTS system with double MM  
**Country of registration:** FI  
**Application no.:** 990757  
**Patent no.:** 105964  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** On managing the ciphering keys in UMTS system with double MM  
**Country of registration:** PCT  
**Application no.:** PCT/FI99/01010  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** NTT  
**Project:** UMTS  
**Title:** W-CDMA  
**Country of registration:** n/a  
**Notes:** NTT DoCoMo is prepared to grant licenses to its essential IPRs on fair, reasonable, and non-discriminatory basis in accordance with the terms and conditions set forth in Clause 6.1 of the ETSI IPR Policy.

<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Menetelmä ja järjestely pakettidatan siirron hallitsemiseksi solukkojärjestelmässä
<b>Country of registration:</b>	US
<b>Application no.:</b>	09/507804
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Multicall MMI aspects and interaction with call hold and call waiting. Multicall handover from UMTS to GSM
<b>Country of registration:</b>	JP
<b>Application no.:</b>	2000-580411
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Segmentation without continuation indicator
<b>Country of registration:</b>	CA
<b>Application no.:</b>	PCT/FI99/00821
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Telia AB
<b>Project:</b>	UMTS
<b>Country of registration:</b>	n/a
<b>Application no.:</b>	9702266-9
<b>Countries applicable:</b>	SE
<b>Notes:</b>	This statement is made 10 February 1999 by Telia AB, a Member of ETSI. In accordance with the ETSI Interim IPR Policy, Article 4.1. Telia AB hereby inform ETSI that with reference to ETSI Standards it is the belief of Telia AB that the following IPRs are, or are likely to become, Essential IPRs in relation to ETSI Standards.
<b>Company name:</b>	Telia AB
<b>Project:</b>	UMTS
<b>Country of registration:</b>	n/a
<b>Application no.:</b>	9801621-5
<b>Countries applicable:</b>	SE
<b>Notes:</b>	This statement is made 10 February 1999 by Telia AB, a Member of ETSI. In accordance with the ETSI Interim IPR Policy, Article 4.1. Telia AB hereby inform ETSI that with reference to ETSI Standards it is the belief of Telia AB that the following IPRs are, or are likely to become, Essential IPRs in relation to ETSI Standards.
<b>Company name:</b>	Telia AB
<b>Project:</b>	UMTS
<b>Country of registration:</b>	n/a
<b>Application no.:</b>	9801027-5
<b>Countries applicable:</b>	SE
<b>Notes:</b>	This statement is made 10 February 1999 by Telia AB, a Member of ETSI. In accordance with the ETSI Interim IPR Policy, Article 4.1. Telia AB hereby inform ETSI that with reference to ETSI Standards it is the belief of Telia AB that the following IPRs are, or are likely to become, Essential IPRs in relation to ETSI Standards.

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**Company name:** Telia AB  
**Project:** UMTS  
**Country of registration:** n/a  
**Application no.:** PCT/SE98/02357  
**Countries applicable:** EPO, EE, JP, LT, LV, NO, US  
**Notes:** This statement is made 10 February 1999 by Telia AB, a Member of ETSI. In accordance with the ETSI Interim IPR Policy, Article 4.1. Telia AB hereby inform ETSI that with reference to ETSI Standards it is the belief of Telia AB that the following IPRs are, or are likely to become, Essential IPRs in relation to ETSI Standards.

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**Company name:** Telia AB  
**Project:** UMTS  
**Country of registration:** n/a  
**Application no.:** 9704863-1  
**Countries applicable:** SE  
**Notes:** This statement is made 10 February 1999 by Telia AB, a Member of ETSI. In accordance with the ETSI Interim IPR Policy, Article 4.1. Telia AB hereby inform ETSI that with reference to ETSI Standards it is the belief of Telia AB that the following IPRs are, or are likely to become, Essential IPRs in relation to ETSI Standards.

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**Company name:** Telia AB  
**Project:** UMTS  
**Country of registration:** n/a  
**Application no.:** PCT/SE98/01157  
**Countries applicable:** EPO, EE, JP, LT, LV, NO, US  
**Notes:** This statement is made 10 February 1999 by Telia AB, a Member of ETSI. In accordance with the ETSI Interim IPR Policy, Article 4.1. Telia AB hereby inform ETSI that with reference to ETSI Standards it is the belief of Telia AB that the following IPRs are, or are likely to become, Essential IPRs in relation to ETSI Standards.

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**Company name:** Telia AB  
**Project:** UMTS  
**Country of registration:** n/a  
**Application no.:** 9702390-7  
**Countries applicable:** SE  
**Notes:** This statement is made 10 February 1999 by Telia AB, a Member of ETSI. In accordance with the ETSI Interim IPR Policy, Article 4.1. Telia AB hereby inform ETSI that with reference to ETSI Standards it is the belief of Telia AB that the following IPRs are, or are likely to become, Essential IPRs in relation to ETSI Standards.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Menetelmä ja järjestely pakettidatan siirron hallitsemiseksi solukkojärjestelmässä  
**Country of registration:** FI  
**Application no.:** 990384  
**Patent no.:** 106901  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Call type specific multical service in 3rd generation mobile networks  
**Country of registration:** FI  
**Application no.:** 981989  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Mitsubishi Electric Corporation  
**Project:** UMTS  
**Title:** Method and Apparatus for Variable Rate Transmitter  
**Country of registration:** JP  
**Application no.:** JP9-16402  
**Countries applicable:** JP  
**ETSI Deliverable:** tdoc SMG2 UMTS A2/9, A3/97, A26/97, A69/97, A45/97, A46/97  
**Notes:** Mitsubishi Electric declared that they are prepared to grant licenses/cross licenses (subject to reciprocity) under the essential IPRs on fair, reasonable and non-discriminatory basis in accordance with Clause 6.1 of the ETSI IPR Policy.

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**Company name:** Qualcomm Inc.  
**Project:** UMTS  
**Title:** n/a  
**Country of registration:** n/a  
**Notes:** QUALCOMM has agreed to support approval by the European Telecommunications Standards Institute (ETSI) of a single CDMA third generation standard that encompasses three optional modes of operation: (1) direct sequence FDD, (2) multi-carrier FDD and (3) TDD, with each mode supporting operation with both GSM MAP and ANSI-41 networks. QUALCOMM hereby commits to the European Telecommunications Standards Institute to license its essential patents for such single CDMA standard or any of its modes on a fair and reasonable basis free from unfair discrimination.

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**Company name:** Mitsubishi Electric Corporation  
**Project:** UMTS  
**Title:** Method and Apparatus for Variable Rate Transmitter  
**Country of registration:** PCT  
**Application no.:** PCT/JP97/03224  
**Countries applicable:** PCT  
**ETSI Deliverable:** tdoc SMG2 UMTS A2/9, A3/97, A26/97, A69/97, A45/97, A46/97  
**Notes:** Mitsubishi Electric declared that they are prepared to grant licenses/cross licenses (subject to reciprocity) under the essential IPRs on fair, reasonable and non-discriminatory basis in accordance with Clause 6.1 of the ETSI IPR Policy.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** WCDMA packet mode code resource allocation mechanism in the downlink  
**Country of registration:** EPO  
**Application no.:** 99936624.8  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** WCDMA packet mode code resource allocation mechanism in the downlink  
**Country of registration:** FI  
**Application no.:** 981546  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	A method for delivering messages in a wireless communications system using the same protocol for all types of messages
<b>Country of registration:</b>	BR
<b>Application no.:</b>	PI9911243-4
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	WCDMA packet mode code resource allocation mechanism in the downlink
<b>Country of registration:</b>	JP
<b>Application no.:</b>	2000-558616
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Delay control method
<b>Country of registration:</b>	FI
<b>Application no.:</b>	980735
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Multicall MMI aspects and interaction with call hold and call waiting. Multicall handover from UMTS to GSM
<b>Country of registration:</b>	PCT
<b>Application no.:</b>	PCT/FI99/00917
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Call type specific multicall service in 3rd generation mobile networks
<b>Country of registration:</b>	EPO
<b>Application no.:</b>	99931317.4
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Multicall MMI aspects and interaction with call hold and call waiting. Multicall handover from UMTS to GSM  
**Country of registration:** US  
**Application no.:** 09/600083  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Call type specific multicall service in 3rd generation mobile networks  
**Country of registration:** JP  
**Application no.:** 2000-570989  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Call type specific multicall service in 3rd generation mobile networks  
**Country of registration:** US  
**Application no.:** PCT/FI99/00545  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Call type specific multicall service in 3rd generation mobile networks  
**Country of registration:** PCT  
**Application no.:** PCT/FI99/00545  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Multicall MMI aspects and interaction with call hold and call waiting. Multicall handover from UMTS to GSM  
**Country of registration:** BR  
**Application no.:** PI9906716-1  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Multicall MMI aspects and interaction with call hold and call waiting. Multicall handover from UMTS to GSM
<b>Country of registration:</b>	CN
<b>Application no.:</b>	99802021.4
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Multicall MMI aspects and interaction with call hold and call waiting. Multicall handover from UMTS to GSM
<b>Country of registration:</b>	EPO
<b>Application no.:</b>	99971626.9
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Multicall MMI aspects and interaction with call hold and call waiting. Multicall handover from UMTS to GSM
<b>Country of registration:</b>	FI
<b>Application no.:</b>	982391
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Multicall paging procedure
<b>Country of registration:</b>	PCT
<b>Application no.:</b>	PCT/EP98/06360
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	WCDMA packet mode code resource allocation mechanism in the downlink
<b>Country of registration:</b>	US
<b>Application no.:</b>	09/486821
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Modification to GPRS specifications for 3rd generation cellular systems  
**Country of registration:** PCT  
**Application no.:** PCT/FI00/00357  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** A method for controlling connections to a mobile station  
**Country of registration:** EPO  
**Application no.:** 99913334.1  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** A method for controlling connections to a mobile station  
**Country of registration:** FI  
**Application no.:** 980736, 20010001  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** A method for controlling connections to a mobile station  
**Country of registration:** JP  
**Application no.:** 2000-541842  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** A method for controlling connections to a mobile station  
**Country of registration:** US  
**Application no.:** 09/647132  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.



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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Modification to GPRS specifications for 3rd generation cellular systems  
**Country of registration:** BR  
**Application no.:** PI0006854-3  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Modification to GPRS specifications for 3rd generation cellular systems  
**Country of registration:** EPO  
**Application no.:** 00920784.6  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Modification to GPRS specifications for 3rd generation cellular systems  
**Country of registration:** FI  
**Application no.:** 991466  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Transportation of QOS mapping information  
**Country of registration:** PCT  
**Application no.:** PCT/FI00/00003  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Modification to GPRS specifications for 3rd generation cellular systems  
**Country of registration:** US  
**Application no.:** PCT/FI00/00357  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	A method and a system for controlling a macrodiversity connection through at least two radio network controllers
<b>Country of registration:</b>	US
<b>Application no.:</b>	09/622240
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Interworking between radio access networks
<b>Country of registration:</b>	PCT
<b>Application no.:</b>	PCT/EP99/00452
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Inter-system handover measurement initiation mechanism
<b>Country of registration:</b>	FI
<b>Application no.:</b>	991194
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Inter-system handover measurement initiation mechanism
<b>Country of registration:</b>	PCT
<b>Application no.:</b>	PCT/FI00/00470
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Secure detach procedure
<b>Country of registration:</b>	CA
<b>Application no.:</b>	2320464
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Secure detach procedure
<b>Country of registration:</b>	CN
<b>Application no.:</b>	98813557.4
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Secure detach procedure
<b>Country of registration:</b>	EPO
<b>Application no.:</b>	98965808.3
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Secure detach procedure
<b>Country of registration:</b>	JP
<b>Application no.:</b>	2000-587560
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Secure detach procedure
<b>Country of registration:</b>	US
<b>Application no.:</b>	09/627684
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Modification to GPRS specifications for 3rd generation cellular systems
<b>Country of registration:</b>	JP
<b>Application no.:</b>	2000-506260
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Packet routing in GSM interoperator network
<b>Country of registration:</b>	NO
<b>Application no.:</b>	973177
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Italtel Spa
<b>Project:</b>	UMTS
<b>Title:</b>	TD-CDMA
<b>Country of registration:</b>	n/a
<b>Notes:</b>	Alcatel, Robert Bosch GmbH, Italtel Spa, Motorola Inc, Northern Telecom Ltd and Siemens AG have collectively stated that they are prepared to grant under their respective essential IPRs licenses/crosslicenses (subject to reciprocity) on fair, reasonable and non-discriminatory basis (in accordance with ETSI's IPR Policy, Clause 6.1)
<b>Company name:</b>	Motorola
<b>Project:</b>	UMTS
<b>Title:</b>	TD-CDMA
<b>Country of registration:</b>	n/a
<b>Notes:</b>	Alcatel, Robert Bosch GmbH, Italtel Spa, Motorola Inc, Northern Telecom Ltd and Siemens AG have collectively stated that they are prepared to grant under their respective essential IPRs licenses/crosslicenses (subject to reciprocity) on fair, reasonable and non-discriminatory basis (in accordance with ETSI's IPR Policy, Clause 6.1)
<b>Company name:</b>	Nortel Northern Telecom Ltd.
<b>Project:</b>	UMTS
<b>Title:</b>	TD-CDMA
<b>Country of registration:</b>	n/a
<b>Notes:</b>	Alcatel, Robert Bosch GmbH, Italtel Spa, Motorola Inc, Northern Telecom Ltd and Siemens AG have collectively stated that they are prepared to grant under their respective essential IPRs licenses/crosslicenses (subject to reciprocity) on fair, reasonable and non-discriminatory basis (in accordance with ETSI's IPR Policy, Clause 6.1)
<b>Company name:</b>	Siemens
<b>Project:</b>	UMTS
<b>Title:</b>	TD-CDMA
<b>Country of registration:</b>	n/a
<b>Notes:</b>	Alcatel, Robert Bosch GmbH, Italtel Spa, Motorola Inc, Northern Telecom Ltd and Siemens AG have collectively stated that they are prepared to grant under their respective essential IPRs licenses/crosslicenses (subject to reciprocity) on fair, reasonable and non-discriminatory basis (in accordance with ETSI's IPR Policy, Clause 6.1)
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Packet routing in GSM interoperator network
<b>Country of registration:</b>	AU
<b>Application no.:</b>	43928/96
<b>Patent no.:</b>	702765
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Packet routing in GSM interoperator network  
**Country of registration:** CA  
**Application no.:** 2209715  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Packet routing in GSM interoperator network  
**Country of registration:** CN  
**Application no.:** 96191857.8  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Packet routing in GSM interoperator network  
**Country of registration:** EPO  
**Application no.:** 96900336.7  
**Countries applicable:** HK  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** A method for controlling connections to a mobile station  
**Country of registration:** CN  
**Application no.:** 99805061  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Packet routing in GSM interoperator network  
**Country of registration:** JP  
**Application no.:** 8-521459  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** A method for controlling connections to a mobile station  
**Country of registration:** BR  
**Application no.:** PI9909307-3  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Packet routing in GSM interoperator network  
**Country of registration:** SG  
**Application no.:** 9705557-8  
**Patent no.:** 49522  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Packet routing in GSM interoperator network  
**Country of registration:** US  
**Application no.:** 08/875464  
**Patent no.:** 5970059  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** A method and a system for controlling a macrodiversity connection through at least two radio network controllers  
**Country of registration:** CA  
**Application no.:** 2320101  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** A method and a system for controlling a macrodiversity connection through at least two radio network controllers  
**Country of registration:** CN  
**Application no.:** 99803016.3  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	A method and a system for controlling a macrodiversity connection through at least two radio network controllers
<b>Country of registration:</b>	EPO
<b>Application no.:</b>	99903708.8
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	A method and a system for controlling a macrodiversity connection through at least two radio network controllers
<b>Country of registration:</b>	FI
<b>Application no.:</b>	980348, 981811
<b>Patent no.:</b>	106667
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	A method and a system for controlling a macrodiversity connection through at least two radio network controllers
<b>Country of registration:</b>	JP
<b>Application no.:</b>	2000-531914
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Maintenance of data integrity in a 3G network
<b>Country of registration:</b>	PCT
<b>Application no.:</b>	PCT/FI00/00025
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Packet routing in GSM interoperator network
<b>Country of registration:</b>	FI
<b>Application no.:</b>	950116
<b>Patent no.:</b>	98586
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** A handover measurement and reporting scheme  
**Country of registration:** EPO  
**Application no.:** 99902583.6  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Secure detach procedure  
**Country of registration:** PCT  
**Application no.:** PCT/EP98/08064  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Encoding blocks for turbo codes  
**Country of registration:** PCT  
**Application no.:** PCT/FI00/00322  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** A new timing proposal for RACH  
**Country of registration:** PCT  
**Application no.:** PCT/EP99/03630  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Usage of AMR speech codec in WCDMA  
**Country of registration:** FI  
**Application no.:** 991536  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.



<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Usage of AMR speech codec in WCDMA
<b>Country of registration:</b>	US
<b>Application no.:</b>	09/609880
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Usage of AMR speech codec in WCDMA
<b>Country of registration:</b>	PCT
<b>Application no.:</b>	PCT/FI00/00615
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Handling of classmarks
<b>Country of registration:</b>	GB
<b>Application no.:</b>	9918636.3
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Handling of classmarks
<b>Country of registration:</b>	PCT
<b>Application no.:</b>	PCT/IB00/01180
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Encoding blocks for turbo codes
<b>Country of registration:</b>	JP
<b>Application no.:</b>	2000-613080
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** A handover measurement and reporting scheme  
**Country of registration:** CN  
**Application no.:** 99803036.8  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Encoding blocks for turbo codes  
**Country of registration:** FI  
**Application no.:** 990863  
**Patent no.:** 106758  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** A handover measurement and reporting scheme  
**Country of registration:** FI  
**Application no.:** 980357  
**Patent no.:** 106285  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** A handover measurement and reporting scheme  
**Country of registration:** JP  
**Application no.:** 2000-532992  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** A handover measurement and reporting scheme  
**Country of registration:** US  
**Application no.:** 09/622468  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Multicall paging procedure
<b>Country of registration:</b>	CA
<b>Application no.:</b>	PCT/EP98/06360
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Multicall paging procedure
<b>Country of registration:</b>	EPO
<b>Application no.:</b>	98954361.6
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Multicall paging procedure
<b>Country of registration:</b>	JP
<b>Application no.:</b>	2000-575324
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Multicall paging procedure
<b>Country of registration:</b>	US
<b>Application no.:</b>	PCT/EP98/06360
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	WCDMA packet mode code resource allocation mechanism in the downlink
<b>Country of registration:</b>	NO
<b>Application no.:</b>	20001072
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** A handover measurement and reporting scheme  
**Country of registration:** CA  
**Application no.:** 2320775  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Motorola  
**Project:** UMTS  
**Title:** Two way personal message system with extended coverage  
**Country of registration:** US  
**Application no.:** n/a  
**Patent no.:** 4,644,351  
**Countries applicable:** US  
**ETSI Deliverable:** n/a  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Transportation of QOS mapping information  
**Country of registration:** FI  
**Application no.:** 990009, 990253  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Mip advertisement  
**Country of registration:** FI  
**Application no.:** 991297  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Mip advertisement  
**Country of registration:** PCT  
**Application no.:** PCT/FI00/00504  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Motorola  
**Project:** UMTS  
**Title:** Digital speech coder having improved sub-sample resolution long-term predictor  
**Country of registration:** US  
**Application no.:** n/a  
**Patent no.:** 5,359,696  
**Countries applicable:** US  
**ETSI Deliverable:** n/a  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Motorola  
**Project:** UMTS  
**Title:** Method and apparatus for data transmission within a broadband communications system  
**Country of registration:** US  
**Application no.:** n/a  
**Patent no.:** 5,964,356  
**Countries applicable:** US  
**ETSI Deliverable:** n/a  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Motorola  
**Project:** UMTS  
**Title:** Dual Mode Radio Receiver with Scanning Capability  
**Country of registration:** US  
**Application no.:** n/a  
**Patent no.:** 4,872,204  
**Countries applicable:** US  
**ETSI Deliverable:** n/a  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Motorola  
**Project:** UMTS  
**Title:** Handoff apparatus and method with interference reduction for a radio system  
**Country of registration:** US  
**Application no.:** n/a  
**Patent no.:** 4,696,027  
**Countries applicable:** US  
**ETSI Deliverable:** n/a  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Motorola  
**Project:** UMTS  
**Title:** Method and apparatus for suppressing noise in a communication system  
**Country of registration:** US  
**Application no.:** n/a  
**Patent no.:** 5,659,622  
**Countries applicable:** US  
**ETSI Deliverable:** n/a  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Encoding blocks for turbo codes  
**Country of registration:** US  
**Application no.:** 09/719585  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Motorola  
**Project:** UMTS  
**Title:** Packet-switched cellular phone system  
**Country of registration:** US  
**Application no.:** n/a  
**Patent no.:** 4,887,265  
**Countries applicable:** US  
**ETSI Deliverable:** n/a  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Maintenance of data integrity in a 3G network  
**Country of registration:** FI  
**Application no.:** 990071  
**Patent no.:** 106497  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Motorola  
**Project:** UMTS  
**Title:** Method and apparatus for transmitting information for multiple independent users in a communication system  
**Country of registration:** US  
**Application no.:** n/a  
**Patent no.:** 5,627,830  
**Countries applicable:** US  
**ETSI Deliverable:** n/a  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Motorola  
**Project:** UMTS  
**Title:** Radio arrangement having two radios sharing circuitry  
**Country of registration:** US  
**Application no.:** n/a  
**Patent no.:** 6,006,104  
**Countries applicable:** US  
**ETSI Deliverable:** n/a  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Motorola  
**Project:** UMTS  
**Title:** Radio arrangement having two radios sharing circuitry  
**Country of registration:** US  
**Application no.:** n/a  
**Patent no.:** 5,029,233  
**Countries applicable:** US  
**ETSI Deliverable:** n/a  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Motorola  
**Project:** UMTS  
**Title:** Method and apparatus for providing high data rate traffic channels in a spread spectrum communication system  
**Country of registration:** US  
**Application no.:** n/a  
**Patent no.:** 5,204,876  
**Countries applicable:** US  
**ETSI Deliverable:** n/a  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Encoding blocks for turbo codes  
**Country of registration:** BR  
**Application no.:** PI0006049-6  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Encoding blocks for turbo codes  
**Country of registration:** CA  
**Application no.:** 2333109  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Encoding blocks for turbo codes  
**Country of registration:** CN  
**Application no.:** 00800593.1  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Encoding blocks for turbo codes
<b>Country of registration:</b>	EPO
<b>Application no.:</b>	00918918.4
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Motorola
<b>Project:</b>	UMTS
<b>Title:</b>	Trunked communication system with nation-wide roaming capability
<b>Country of registration:</b>	US
<b>Application no.:</b>	n/a
<b>Patent no.:</b>	4,833,701
<b>Countries applicable:</b>	US
<b>ETSI Deliverable:</b>	n/a
<b>Notes:</b>	The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	OKI Electric Industry Co., Ltd.
<b>Project:</b>	UMTS
<b>Title:</b>	CDMA receiver with weighted interference cancellation (UTRA)
<b>Application no.:</b>	2.210.214
<b>Patent no.:</b>	Pending
<b>Countries applicable:</b>	CA
<b>Company name:</b>	OKI Electric Industry Co., Ltd.
<b>Project:</b>	UMTS
<b>Title:</b>	Spread code generation device for spread spectrum communication (UTRA)
<b>Country of registration:</b>	US
<b>Application no.:</b>	426.254
<b>Patent no.:</b>	5.631.922
<b>Countries applicable:</b>	US
<b>Notes:</b>	Pending for Japan.
<b>Company name:</b>	Salbu Research & Development (pty) Ltd.
<b>Project:</b>	UMTS
<b>Title:</b>	Adaptive Communication System ODMA (enhancement to WBCDMA, TDCDMA)
<b>Country of registration:</b>	ZA
<b>Application no.:</b>	P972825
<b>Patent no.:</b>	ZA 94/10066
<b>Countries applicable:</b>	NO
<b>Company name:</b>	Salbu Research & Development (pty) Ltd.
<b>Project:</b>	UMTS
<b>Title:</b>	Adaptive Communication System ODMA (enhancement to WBCDMA, TDCDMA)
<b>Country of registration:</b>	ZA
<b>Application no.:</b>	97112107
<b>Patent no.:</b>	ZA 94/10066
<b>Countries applicable:</b>	RU
<b>Company name:</b>	Salbu Research & Development (pty) Ltd.
<b>Project:</b>	UMTS
<b>Title:</b>	Method of Operating a Network ODMA (enhancement to WBCDMA, TDCDMA)
<b>Country of registration:</b>	ZA
<b>Patent no.:</b>	ZA 97/1017
<b>Countries applicable:</b>	ZA



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**Company name:** Salbu Research & Development (pty) Ltd.  
**Project:** UMTS  
**Title:** Enhanced Cellular Communication System ODMA (enhancement to WBCDMA, TDCDMA)  
**Country of registration:** ZA  
**Patent no.:** ZA 97/1819  
**Countries applicable:** ZA

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**Company name:** Salbu Research & Development (pty) Ltd.  
**Project:** UMTS  
**Title:** Power Adaption in a Multi-Station Network ODMA (enhancement to WBCDMA, TDCDMA)  
**Country of registration:** ZA  
**Patent no.:** ZA 97/6885  
**Countries applicable:** ZA

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**Company name:** Mitsubishi Electric Corporation  
**Project:** UMTS  
**Title:** Mobile radio communication system, communication apparatus for mobile communication system, and method for mobile radio communication system  
**Country of registration:** JP  
**Application no.:** JP10-114003  
**Countries applicable:** JP  
**Notes:** Mitsubishi Electric has stated that, in accordance with the ETSI Interim IPR Policy, Article 4.1 with reference to the technical proposal identified as (1) Tdoc SMG2 UMTS-L1 13/98 (Enhanced Slotted DL transmisssion mode), Tdoc SMG2 UMTS-L1 14/98 (Short code reuse on slotted DL transmisssion mode), Tdoc SMG2 UMTS-L1 65/98 ("split" slotted transmission for UTRA FDD: Additional results), Tdoc SMG2 UMTS-L1 68/98 (Rationales for Reuse of short codes in downlink of UTRA FDD), Tdocs SMG2 UMTS-L1 249/98 (Downlink slotted transmission for UTRA FDD: Additional results (2)), Tdocs SMG2 UMTS-L1 66/98 (UTRA FDD downlink slotted transmission and GSM FCCH/SCH detection), is prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI Interim IPR policy, in respect of the Standard, to the extent that the IPRs remain essential.

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**Company name:** Mitsubishi Electric Corporation  
**Project:** UMTS  
**Country of registration:** JP  
**Application no.:** JP10-080031  
**Countries applicable:** JP  
**Notes:** Mitsubishi Electric has stated that, in accordance with the ETSI Interim IPR Policy, Article 4.1 with reference to the technical proposal identified as (1) Tdoc SMG2 UMTS-L1 13/98 (Enhanced Slotted DL transmisssion mode), Tdoc SMG2 UMTS-L1 14/98 (Short code reuse on slotted DL transmisssion mode), Tdoc SMG2 UMTS-L1 65/98 ("split" slotted transmission for UTRA FDD: Additional results), Tdoc SMG2 UMTS-L1 68/98 (Rationales for Reuse of short codes in downlink of UTRA FDD), Tdocs SMG2 UMTS-L1 249/98 (Downlink slotted transmission for UTRA FDD: Additional results (2)), Tdocs SMG2 UMTS-L1 66/98 (UTRA FDD downlink slotted transmission and GSM FCCH/SCH detection), is prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI Interim IPR policy, in respect of the Standard, to the extent that the IPRs remain essential.

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**Company name:** Salbu Research & Development (pty) Ltd.  
**Project:** UMTS  
**Title:** Adaptive Communication System ODMA (enhancement to WBCDMA, TDCDMA)  
**Country of registration:** ZA  
**Application no.:** 97-704132  
**Patent no.:** ZA 94/10066  
**Countries applicable:** KR

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**Company name:** Golden Bridge Technology (GBT)  
**Project:** UMTS  
**Title:** UTRA RTT Proposal  
**Country of registration:** n/a  
**Notes:** GBT has notified ETSI that it is the proprietor of IPRs considered essential to the ETSI UTRA RTT Proposal to the ITU. GBT declared that, in respect to UTRA RTT, it is prepared to grant irrevocable licenses under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, to the extent that the IPRs remain essential.

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**Company name:** Salbu Research & Development (pty) Ltd.  
**Project:** UMTS  
**Title:** Adaptive Communication System ODMA (enhancement to WBCDMA, TDCDMA)  
**Country of registration:** ZA  
**Application no.:** 95197655.9  
**Patent no.:** ZA 94/10066  
**Countries applicable:** CN

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**Company name:** OKI Electric Industry Co., Ltd.  
**Project:** UMTS  
**Title:** CDMA receiver with weighted interference cancellation (UTRA)  
**Application no.:** 883.959  
**Patent no.:** Pending  
**Countries applicable:** US

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**Company name:** OKI Electric Industry Co., Ltd.  
**Project:** UMTS  
**Title:** CDMA receiver with weighted interference cancellation (UTRA)  
**Application no.:** 97-31736  
**Patent no.:** Pending  
**Countries applicable:** KR

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**Company name:** OKI Electric Industry Co., Ltd.  
**Project:** UMTS  
**Title:** CDMA receiver with weighted interference cancellation (UTRA)  
**Application no.:** 08-183593  
**Patent no.:** Pending  
**Countries applicable:** JP

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**Company name:** OKI Electric Industry Co., Ltd.  
**Project:** UMTS  
**Title:** Code division multiple access receiver with sequential interference-cancelling (UTRA)  
**Country of registration:** US  
**Application no.:** 95103484,2  
**Countries applicable:** DE, FR, GB  
**Notes:** Pending for Japan, Korea and EPCDI.

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**Company name:** OKI Electric Industry Co., Ltd.  
**Project:** UMTS  
**Title:** Code division multiple access receiver with sequential interference-cancelling (UTRA)  
**Country of registration:** US  
**Application no.:** 397.676  
**Patent no.:** 5.579.304  
**Countries applicable:** US  
**Notes:** Pending for Japan, Korea and EPCDI.

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**Company name:** OKI Electric Industry Co., Ltd.  
**Project:** UMTS  
**Title:** Code division multiple access receiver with sequential interference-cancelling (UTRA)  
**Country of registration:** US  
**Application no.:** 95-2360  
**Patent no.:** 5.579.304  
**Countries applicable:** KR  
**Notes:** Pending for Japan, Korea and EPCDI.

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**Company name:** OKI Electric Industry Co., Ltd.  
**Project:** UMTS  
**Title:** Code division multiple access receiver with sequential interference-cancelling (UTRA)  
**Country of registration:** US  
**Application no.:** 07-000349  
**Patent no.:** 5.579.304  
**Countries applicable:** JP  
**Notes:** Pending for Japan, Korea and EPCDI.

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<b>Company name:</b>	Ericsson
<b>Project:</b>	UMTS
<b>Title:</b>	Load Sharing control for a Mobile cellular radio system
<b>Country of registration:</b>	SE
<b>Application no.:</b>	669,865
<b>Patent no.:</b>	US-5241685
<b>Countries applicable:</b>	US, SE, IT, GB, FR, ES, DE
<b>Company name:</b>	Salbu Research & Development (pty) Ltd.
<b>Project:</b>	UMTS
<b>Title:</b>	Adaptive Communication System ODMA (enhancement to WBCDMA, TDCDMA)
<b>Country of registration:</b>	ZA
<b>Application no.:</b>	95/10789
<b>Patent no.:</b>	ZA 94/10066
<b>Countries applicable:</b>	ZA
<b>Company name:</b>	Salbu Research & Development (pty) Ltd.
<b>Project:</b>	UMTS
<b>Title:</b>	Adaptive Communication System ODMA (enhancement to WBCDMA, TDCDMA)
<b>Country of registration:</b>	ZA
<b>Application no.:</b>	2411/DEL/95
<b>Patent no.:</b>	ZA 94/10066
<b>Countries applicable:</b>	IN
<b>Company name:</b>	Ericsson
<b>Project:</b>	UMTS
<b>Title:</b>	Discontinuous CDMA Reception
<b>Country of registration:</b>	SE
<b>Application no.:</b>	866, 555
<b>Patent no.:</b>	US-5239557
<b>Countries applicable:</b>	MX, AU, NZ, US, TW
<b>Company name:</b>	Ericsson
<b>Project:</b>	UMTS
<b>Title:</b>	Method and Apparatus for Enhancing Signalling Reliability in a Cellular Mobile Radio Telephone System
<b>Country of registration:</b>	SE
<b>Application no.:</b>	604,522
<b>Patent no.:</b>	US-5230082
<b>Countries applicable:</b>	AU, US, MX, NZ, TW
<b>Company name:</b>	Ericsson
<b>Project:</b>	UMTS
<b>Title:</b>	Decoding System for Distinguishing Different Types of Convolutionally Encoded Signals
<b>Country of registration:</b>	SE
<b>Application no.:</b>	652,544
<b>Patent no.:</b>	US-5230003
<b>Countries applicable:</b>	US, SG, GB
<b>Company name:</b>	Ericsson
<b>Project:</b>	UMTS
<b>Title:</b>	CDMA Subtractive Demodulation
<b>Country of registration:</b>	SE
<b>Application no.:</b>	739, 446
<b>Patent no.:</b>	US-5218619
<b>Countries applicable:</b>	AU, BE, CH, DE, DK, ES, FR, AT, GR, IT, LU, MX, MY, NL, SE, TW, US, GB
<b>Company name:</b>	Ericsson
<b>Project:</b>	UMTS
<b>Title:</b>	Method of Transmitting Signalling Messages in a Mobile Radio Communication System
<b>Country of registration:</b>	SE
<b>Application no.:</b>	899,166
<b>Patent no.:</b>	US-5182753
<b>Countries applicable:</b>	US

<b>Company name:</b>	Ericsson
<b>Project:</b>	UMTS
<b>Title:</b>	CDMA Subtractive Demodulation
<b>Country of registration:</b>	SE
<b>Application no.:</b>	628,359
<b>Patent no.:</b>	US-5151919
<b>Countries applicable:</b>	AU, BE, DE, DK, ES, FR, GB, AT, IT, LU, MX, MY, NL, RU, SE, TW, US, GR
<b>Company name:</b>	Ericsson
<b>Project:</b>	UMTS
<b>Title:</b>	Handover Method for Mobile Radio System
<b>Country of registration:</b>	SE
<b>Application no.:</b>	365,432
<b>Patent no.:</b>	US-5109528
<b>Countries applicable:</b>	US, SG, SE, NO, NL, IT, HK, GB, FR, ES, DE
<b>Company name:</b>	Ericsson
<b>Project:</b>	UMTS
<b>Title:</b>	Cellular Digital Mobile Radio System and Method of Transmitting information in a Digital Cellular Mobile Radio System
<b>Country of registration:</b>	SE
<b>Application no.:</b>	579,283
<b>Patent no.:</b>	US-5088108
<b>Countries applicable:</b>	US
<b>Company name:</b>	Salbu Research & Development (pty) Ltd.
<b>Project:</b>	UMTS
<b>Title:</b>	Adaptive Communication System ODMA (enhancement to WBCDMA, TDCDMA)
<b>Country of registration:</b>	ZA
<b>Application no.:</b>	297514
<b>Patent no.:</b>	ZA 94/10066
<b>Countries applicable:</b>	NZ
<b>Company name:</b>	Telia AB
<b>Project:</b>	UMTS
<b>Country of registration:</b>	n/a
<b>Application no.:</b>	9602399-9
<b>Countries applicable:</b>	SE
<b>Notes:</b>	This statement is made 10 February 1999 by Telia AB, a Member of ETSI. In accordance with the ETSI Interim IPR Policy, Article 4.1. Telia AB hereby inform ETSI that with reference to ETSI Standards it is the belief of Telia AB that the following IPRs are, or are likely to become, Essential IPRs in relation to ETSI Standards.
<b>Company name:</b>	OKI Electric Industry Co., Ltd.
<b>Project:</b>	UMTS
<b>Title:</b>	Spread code generation device for spread spectrum communication (UTRA)
<b>Country of registration:</b>	US
<b>Application no.:</b>	06-091912
<b>Patent no.:</b>	5.631.922
<b>Countries applicable:</b>	JP
<b>Notes:</b>	Pending for Japan.
<b>Company name:</b>	Salbu Research & Development (pty) Ltd.
<b>Project:</b>	UMTS
<b>Title:</b>	Adaptive Communication System ODMA (enhancement to WBCDMA, TDCDMA)
<b>Country of registration:</b>	ZA
<b>Application no.:</b>	AP/P/96/00779
<b>Patent no.:</b>	ZA 94/10066
<b>Countries applicable:</b>	ARIPO

<b>Company name:</b>	Salbu Research & Development (pty) Ltd.
<b>Project:</b>	UMTS
<b>Title:</b>	Adaptive Communication System ODMA (enhancement to WBCDMA, TDCDMA)
<b>Country of registration:</b>	ZA
<b>Application no.:</b>	95/090
<b>Patent no.:</b>	ZA 94/10066
<b>Countries applicable:</b>	n/a
<b>Company name:</b>	Salbu Research & Development (pty) Ltd.
<b>Project:</b>	UMTS
<b>Title:</b>	Adaptive Communication System ODMA (enhancement to WBCDMA, TDCDMA)
<b>Country of registration:</b>	ZA
<b>Application no.:</b>	PCT/GB95/02972
<b>Patent no.:</b>	ZA 94/10066
<b>Countries applicable:</b>	PCT
<b>Company name:</b>	Salbu Research & Development (pty) Ltd.
<b>Project:</b>	UMTS
<b>Title:</b>	Adaptive Communication System ODMA (enhancement to WBCDMA, TDCDMA)
<b>Country of registration:</b>	ZA
<b>Application no.:</b>	95941197.6
<b>Patent no.:</b>	ZA 94/10066
<b>Countries applicable:</b>	EU
<b>Company name:</b>	Salbu Research & Development (pty) Ltd.
<b>Project:</b>	UMTS
<b>Title:</b>	Adaptive Communication System ODMA (enhancement to WBCDMA, TDCDMA)
<b>Country of registration:</b>	ZA
<b>Application no.:</b>	8-519339
<b>Patent no.:</b>	ZA 94/10066
<b>Countries applicable:</b>	JP
<b>Company name:</b>	Salbu Research & Development (pty) Ltd.
<b>Project:</b>	UMTS
<b>Title:</b>	Adaptive Communication System ODMA (enhancement to WBCDMA, TDCDMA)
<b>Country of registration:</b>	ZA
<b>Application no.:</b>	08/849.875
<b>Patent no.:</b>	ZA 94/10066
<b>Countries applicable:</b>	US
<b>Company name:</b>	Salbu Research & Development (pty) Ltd.
<b>Project:</b>	UMTS
<b>Title:</b>	Adaptive Communication System ODMA (enhancement to WBCDMA, TDCDMA)
<b>Country of registration:</b>	ZA
<b>Application no.:</b>	42682/96
<b>Patent no.:</b>	ZA 94/10066
<b>Countries applicable:</b>	AU
<b>Company name:</b>	Salbu Research & Development (pty) Ltd.
<b>Project:</b>	UMTS
<b>Title:</b>	Adaptive Communication System ODMA (enhancement to WBCDMA, TDCDMA)
<b>Country of registration:</b>	ZA
<b>Application no.:</b>	PI9510251-5
<b>Patent no.:</b>	ZA 94/10066
<b>Countries applicable:</b>	BR
<b>Company name:</b>	Ericsson
<b>Project:</b>	UMTS
<b>Title:</b>	Time-Reuse and Code-Reuse partitioning and Methods for Cellular Radiotelephone Systems
<b>Country of registration:</b>	SE
<b>Application no.:</b>	PCT/US97/02857
<b>Patent no.:</b>	WO 97/32441
<b>Countries applicable:</b>	TW

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** High speed data 2  
**Country of registration:** JP  
**Application no.:** 8-511421  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** OKI Electric Industry Co., Ltd.  
**Project:** UMTS  
**Title:** Channel modulation for code-division multiple-access systems (UTRA)  
**Application no.:** 06-127933  
**Patent no.:** Pending  
**Countries applicable:** JP

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** High speed data 1  
**Country of registration:** JP  
**Application no.:** 8-511420  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** High speed data 1  
**Country of registration:** KR  
**Application no.:** 701980  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** High speed data 1  
**Country of registration:** SG  
**Application no.:** 9701460-9  
**Patent no.:** 39174  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** High speed data 1  
**Country of registration:** US  
**Application no.:** 08/817963, 08/676023  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** High speed data 2  
**Country of registration:** AU  
**Application no.:** 35240/95  
**Patent no.:** 696802  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** High speed data 2  
**Country of registration:** CA  
**Application no.:** 2200307  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** High speed data 2  
**Country of registration:** CN  
**Application no.:** 95195967.0  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** High speed data 1  
**Country of registration:** EPO  
**Application no.:** 95932031  
**Countries applicable:** HK  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** High speed data 2  
**Country of registration:** FI  
**Application no.:** 944488, 971270  
**Patent no.:** 96558  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** High speed data 1  
**Country of registration:** CN  
**Application no.:** 95195966.2  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** High speed data 2  
**Country of registration:** KR  
**Application no.:** 701981  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** High speed data 2  
**Country of registration:** SG  
**Application no.:** 9701451-8  
**Patent no.:** 39164  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** High speed data 2  
**Country of registration:** US  
**Application no.:** 08/817331, 09/506735, CPA08/817331  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Delay control method  
**Country of registration:** CA  
**Application no.:** 2325446  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.



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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Delay control method  
**Country of registration:** CN  
**Application no.:** 99804786.4  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Salbu Research & Development (pty) Ltd.  
**Project:** UMTS  
**Title:** Adaptive Communication System ODMA (enhancement to WBCDMA, TDCDMA)  
**Country of registration:** ZA  
**Application no.:** 2.208.041  
**Patent no.:** ZA 94/10066  
**Countries applicable:** CA

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**Company name:** Siemens  
**Project:** UMTS  
**Title:** TD-CDMA, W-CDMA  
**Country of registration:** n/a  
**Notes:** Siemens declared that it is completely committed to the ETSI IPR policy (Clause 6.1, "...on fair, reasonable and non discriminatory terms and conditions...") for any ETSI standard relating to the TD-CDMA proposal and the W-CDMA proposal.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Delay control method  
**Country of registration:** EPO  
**Application no.:** 99913335.8  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** High speed data 2  
**Country of registration:** EPO  
**Application no.:** 95932032  
**Countries applicable:** HK  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Method and arrangement for optimal scheduling of slotted-mode related measurements in a cellular radio system  
**Country of registration:** AU  
**Application no.:** PCT/F199/00927  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

<b>Company name:</b>	OKI Electric Industry Co., Ltd.
<b>Project:</b>	UMTS
<b>Title:</b>	Spreading code generator and CDMA communication system (UTRA)
<b>Application no.:</b>	96111548,2
<b>Patent no.:</b>	Pending
<b>Countries applicable:</b>	EPO
<b>Company name:</b>	OKI Electric Industry Co., Ltd.
<b>Project:</b>	UMTS
<b>Title:</b>	Spreading code generator and CDMA communication system (UTRA)
<b>Application no.:</b>	2.181.637
<b>Patent no.:</b>	Pending
<b>Countries applicable:</b>	CA
<b>Company name:</b>	OKI Electric Industry Co., Ltd.
<b>Project:</b>	UMTS
<b>Title:</b>	Spreading code generator and CDMA communication system (UTRA)
<b>Application no.:</b>	679.925
<b>Patent no.:</b>	Pending
<b>Countries applicable:</b>	US
<b>Company name:</b>	OKI Electric Industry Co., Ltd.
<b>Project:</b>	UMTS
<b>Title:</b>	Spreading code generator and CDMA communication system (UTRA)
<b>Application no.:</b>	96-30635
<b>Patent no.:</b>	Pending
<b>Countries applicable:</b>	KR
<b>Company name:</b>	OKI Electric Industry Co., Ltd.
<b>Project:</b>	UMTS
<b>Title:</b>	Spreading code generator and CDMA communication system (UTRA)
<b>Application no.:</b>	07-192062
<b>Patent no.:</b>	Pending
<b>Countries applicable:</b>	JP
<b>Company name:</b>	OKI Electric Industry Co., Ltd.
<b>Project:</b>	UMTS
<b>Title:</b>	Saturation prevention system for radio telephone with open and close loop power control systems (UTRA)
<b>Country of registration:</b>	US
<b>Application no.:</b>	9609267,1
<b>Patent no.:</b>	5.689.815
<b>Countries applicable:</b>	GB
<b>Notes:</b>	Pending for Japan, Korea, Canada and Great Britain.
<b>Company name:</b>	OKI Electric Industry Co., Ltd.
<b>Project:</b>	UMTS
<b>Title:</b>	Saturation prevention system for radio telephone with open and close loop power control systems (UTRA)
<b>Country of registration:</b>	US
<b>Application no.:</b>	2.175.749
<b>Patent no.:</b>	5.689.815
<b>Countries applicable:</b>	CA
<b>Notes:</b>	Pending for Japan, Korea, Canada and Great Britain.
<b>Company name:</b>	OKI Electric Industry Co., Ltd.
<b>Project:</b>	UMTS
<b>Title:</b>	Saturation prevention system for radio telephone with open and close loop power control systems (UTRA)
<b>Country of registration:</b>	US
<b>Application no.:</b>	434.650
<b>Patent no.:</b>	5.689.815
<b>Countries applicable:</b>	US
<b>Notes:</b>	Pending for Japan, Korea, Canada and Great Britain.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** High speed data 1  
**Country of registration:** FI  
**Application no.:** 944487, 971269  
**Patent no.:** 96557  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** OKI Electric Industry Co., Ltd.  
**Project:** UMTS  
**Title:** Saturation prevention system for radio telephone with open and close loop power control systems (UTRA)  
**Country of registration:** US  
**Application no.:** 08-110634  
**Patent no.:** 5.689.815  
**Countries applicable:** JP  
**Notes:** Pending for Japan, Korea, Canada and Great Britain.

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**Company name:** Ericsson  
**Project:** UMTS  
**Title:** Mobile Assisted Handover Using CDMA  
**Country of registration:** SE  
**Application no.:** PCT/US93/03412  
**Patent no.:** WO 93/21739  
**Countries applicable:** AU, NZ, TW

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Method and arrangement for optimal scheduling of slotted-mode related measurements in a cellular radio system  
**Country of registration:** CN  
**Application no.:** PCT/FI99/00927  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Method and arrangement for optimal scheduling of slotted-mode related measurements in a cellular radio system  
**Country of registration:** EPO  
**Application no.:** PCT/FI99/00927  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Method and arrangement for optimal scheduling of slotted-mode related measurements in a cellular radio system  
**Country of registration:** FI  
**Application no.:** 982432  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Method and arrangement for optimal scheduling of slotted-mode related measurements in a cellular radio system  
**Country of registration:** JP  
**Application no.:** 11-318161  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Method and arrangement for optimal scheduling of slotted-mode related measurements in a cellular radio system  
**Country of registration:** US  
**Application no.:** 09/435910  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Method and arrangement for optimal scheduling of slotted-mode related measurements in a cellular radio system  
**Country of registration:** PCT  
**Application no.:** PCT/FI99/00927  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** High speed data 1  
**Country of registration:** AU  
**Application no.:** 35239/95  
**Patent no.:** 701594  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	High speed data 1
<b>Country of registration:</b>	CA
<b>Application no.:</b>	2200308
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	OKI Electric Industry Co., Ltd.
<b>Project:</b>	UMTS
<b>Title:</b>	Saturation prevention system for radio telephone with open and close loop power control systems (UTRA)
<b>Country of registration:</b>	US
<b>Application no.:</b>	96-14312
<b>Patent no.:</b>	5.689.815
<b>Countries applicable:</b>	KR
<b>Notes:</b>	Pending for Japan, Korea, Canada and Great Britain.
<b>Company name:</b>	Ericsson
<b>Project:</b>	UMTS
<b>Title:</b>	Calling Channel in CDMA Communications System
<b>Country of registration:</b>	SE
<b>Application no.:</b>	226,470
<b>Patent no.:</b>	US-5377183
<b>Countries applicable:</b>	AU, MX, NZ, TW, US
<b>Company name:</b>	Ericsson
<b>Project:</b>	UMTS
<b>Title:</b>	Transceiver Algorithms of Antenna Arrays
<b>Country of registration:</b>	SE
<b>Application no.:</b>	195,224
<b>Patent no.:</b>	US-5566209
<b>Countries applicable:</b>	US
<b>Company name:</b>	Ericsson
<b>Project:</b>	UMTS
<b>Title:</b>	Multiple Access Coding Using Bent Sequences for Mobile Radio Communications
<b>Country of registration:</b>	SE
<b>Application no.:</b>	291,693
<b>Patent no.:</b>	US-5550809
<b>Countries applicable:</b>	US
<b>Company name:</b>	Salbu Research & Development (pty) Ltd.
<b>Project:</b>	UMTS
<b>Title:</b>	Adaptive Communication System ODMA (enhancement to WBCDMA, TDCDMA)
<b>Country of registration:</b>	ZA
<b>Application no.:</b>	PI9503918
<b>Patent no.:</b>	ZA 94/10066
<b>Countries applicable:</b>	MY
<b>Company name:</b>	Ericsson
<b>Project:</b>	UMTS
<b>Title:</b>	TDMA/FDMA/CDMA Hybrid Radio Access Methods
<b>Country of registration:</b>	SE
<b>Application no.:</b>	179,954
<b>Patent no.:</b>	US-5539730
<b>Countries applicable:</b>	US, DE, IE, GB, FR, ZA, DK, ES, CH, BE, AT, GR, SE, IT, PT, NL, LU

<b>Company name:</b>	Ericsson
<b>Project:</b>	UMTS
<b>Title:</b>	System and Method for Joint Demodulation of CDMA Signals
<b>Country of registration:</b>	SE
<b>Application no.:</b>	155,557
<b>Patent no.:</b>	US-5506861
<b>Countries applicable:</b>	US, TW, GB, AU
<b>Company name:</b>	Ericsson
<b>Project:</b>	UMTS
<b>Title:</b>	Best Server Selection in Layered Cellular Radio System
<b>Country of registration:</b>	SE
<b>Application no.:</b>	090,734
<b>Patent no.:</b>	US-5499386
<b>Countries applicable:</b>	CO, US, TW, PH, ZA
<b>Company name:</b>	Ericsson
<b>Project:</b>	UMTS
<b>Title:</b>	Method and System for Channel Allocation using Power Control and Mobile Assisted Handover Measurements
<b>Country of registration:</b>	SE
<b>Application no.:</b>	207,032
<b>Patent no.:</b>	US-5491837
<b>Countries applicable:</b>	US, SG
<b>Company name:</b>	Ericsson
<b>Project:</b>	UMTS
<b>Title:</b>	Methods in a Cellular Mobile Radio Communications System
<b>Country of registration:</b>	SE
<b>Application no.:</b>	035,797
<b>Patent no.:</b>	US-5487174
<b>Countries applicable:</b>	AU, MX, NZ, TW, US
<b>Company name:</b>	Ericsson
<b>Project:</b>	UMTS
<b>Title:</b>	Method and Apparatus for Mobile Radio Communications having Switched Dual Frequency Synthesizers
<b>Country of registration:</b>	SE
<b>Application no.:</b>	159,956
<b>Patent no.:</b>	US-5448762
<b>Countries applicable:</b>	GB, US
<b>Company name:</b>	Ericsson
<b>Project:</b>	UMTS
<b>Title:</b>	Random Access in Mobile Radio Telephone Systems
<b>Country of registration:</b>	SE
<b>Application no.:</b>	222,008
<b>Patent no.:</b>	US-5430760
<b>Countries applicable:</b>	AU, MX, NZ, US, TW
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Shared channel signalling with training sequences in UTRA/TDD
<b>Country of registration:</b>	NO
<b>Application no.:</b>	20011094
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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<b>Company name:</b>	Ericsson
<b>Project:</b>	UMTS
<b>Title:</b>	Method of Effecting Handover in a Mobile Multilayer cellular Radio System
<b>Country of registration:</b>	SE
<b>Application no.:</b>	901,075
<b>Patent no.:</b>	US-5392453
<b>Countries applicable:</b>	US, TW, SE, NL, MY, IT, GB, FR, DE, AU

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<b>Company name:</b>	Ericsson
<b>Project:</b>	UMTS
<b>Title:</b>	System and Method for Setting of Output Power Parameters in a Cellular Mobile Telecommunications System
<b>Country of registration:</b>	SE
<b>Application no.:</b>	411,426
<b>Patent no.:</b>	US-5634195
<b>Countries applicable:</b>	US

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<b>Company name:</b>	Ericsson
<b>Project:</b>	UMTS
<b>Title:</b>	Fast Walsh Transform Processor
<b>Country of registration:</b>	SE
<b>Application no.:</b>	735,805
<b>Patent no.:</b>	US-5357454
<b>Countries applicable:</b>	US, TW, SG, GB, FR

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<b>Company name:</b>	Ericsson
<b>Project:</b>	UMTS
<b>Title:</b>	Multiple Access Coding for Radio Communications
<b>Country of registration:</b>	SE
<b>Application no.:</b>	866,865
<b>Patent no.:</b>	US-5353352
<b>Countries applicable:</b>	AU, MX, NZ, TW, US

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<b>Company name:</b>	Ericsson
<b>Project:</b>	UMTS
<b>Title:</b>	Adaptively Self-Correcting Modulation System and Method
<b>Country of registration:</b>	SE
<b>Application no.:</b>	068,087
<b>Patent no.:</b>	US-5351016
<b>Countries applicable:</b>	GB, AU, IT, MX, NZ, US

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<b>Company name:</b>	Ericsson
<b>Project:</b>	UMTS
<b>Title:</b>	Duplex Power Control System in a Communications Network
<b>Country of registration:</b>	SE
<b>Application no.:</b>	866,554
<b>Patent no.:</b>	US-5345598
<b>Countries applicable:</b>	AU, NZ, TW, US

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<b>Company name:</b>	Ericsson
<b>Project:</b>	UMTS
<b>Title:</b>	CDMA Frequency Allocation
<b>Country of registration:</b>	SE
<b>Application no.:</b>	162,948
<b>Patent no.:</b>	US-5341397
<b>Countries applicable:</b>	US

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<b>Company name:</b>	Ericsson
<b>Project:</b>	UMTS
<b>Title:</b>	Handover Method for Mobile Radio System
<b>Country of registration:</b>	SE
<b>Application no.:</b>	071,356
<b>Patent no.:</b>	US-5327577
<b>Countries applicable:</b>	US

<b>Company name:</b>	Ericsson
<b>Project:</b>	UMTS
<b>Title:</b>	Diversity Radio Receiver Automatic Frequency Control
<b>Country of registration:</b>	SE
<b>Application no.:</b>	774,215
<b>Patent no.:</b>	US-5321850
<b>Countries applicable:</b>	US, TW, MX, GB
<b>Company name:</b>	Ericsson
<b>Project:</b>	UMTS
<b>Title:</b>	Prioritization between Handoff and New call Requests in a Cellular Communications System
<b>Country of registration:</b>	SE
<b>Application no.:</b>	804,604
<b>Patent no.:</b>	US-5301356
<b>Countries applicable:</b>	AU, DE, DK, ES, FR, AT, HK, IT, MX, NL, SE, TW, US, GB
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Shared channel signalling with training sequences in UTRA/TDD
<b>Country of registration:</b>	EPO
<b>Application no.:</b>	00944086.8
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Shared channel signalling with training sequences in UTRA/TDD
<b>Country of registration:</b>	FI
<b>Application no.:</b>	991534
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Shared channel signalling with training sequences in UTRA/TDD
<b>Country of registration:</b>	JP
<b>Application no.:</b>	2001-508078
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Ericsson
<b>Project:</b>	UMTS
<b>Title:</b>	Navigation Assistance For Call Handling in Mobile Telephone Systems
<b>Country of registration:</b>	SE
<b>Application no.:</b>	118,179
<b>Patent no.:</b>	US-5404376
<b>Countries applicable:</b>	AU, MX, NZ, US, TW



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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Segmentation without continuation indicator  
**Country of registration:** CN  
**Application no.:** PCT/FI99/00821  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Telia AB  
**Project:** UMTS  
**Country of registration:** n/a  
**Application no.:** PCT/SE97/00203  
**Countries applicable:** EPO, NO  
**Notes:** This statement is made 10 February 1999 by Telia AB, a Member of ETSI. In accordance with the ETSI Interim IPR Policy, Article 4.1. Telia AB hereby inform ETSI that with reference to ETSI Standards it is the belief of Telia AB that the following IPRs are, or are likely to become, Essential IPRs in relation to ETSI Standards.

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**Company name:** Telia AB  
**Project:** UMTS  
**Country of registration:** n/a  
**Patent no.:** 505 039  
**Countries applicable:** SE  
**Notes:** This statement is made 10 February 1999 by Telia AB, a Member of ETSI. In accordance with the ETSI Interim IPR Policy, Article 4.1. Telia AB hereby inform ETSI that with reference to ETSI Standards it is the belief of Telia AB that the following IPRs are, or are likely to become, Essential IPRs in relation to ETSI Standards.

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**Company name:** Telia AB  
**Project:** UMTS  
**Country of registration:** n/a  
**Application no.:** 97904710.7  
**Countries applicable:** EPO  
**Notes:** This statement is made 10 February 1999 by Telia AB, a Member of ETSI. In accordance with the ETSI Interim IPR Policy, Article 4.1. Telia AB hereby inform ETSI that with reference to ETSI Standards it is the belief of Telia AB that the following IPRs are, or are likely to become, Essential IPRs in relation to ETSI Standards.

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**Company name:** Telia AB  
**Project:** UMTS  
**Country of registration:** n/a  
**Application no.:** 19984179  
**Countries applicable:** NO  
**Notes:** This statement is made 10 February 1999 by Telia AB, a Member of ETSI. In accordance with the ETSI Interim IPR Policy, Article 4.1. Telia AB hereby inform ETSI that with reference to ETSI Standards it is the belief of Telia AB that the following IPRs are, or are likely to become, Essential IPRs in relation to ETSI Standards.

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**Company name:** Telia AB  
**Project:** UMTS  
**Country of registration:** n/a  
**Patent no.:** 504 511  
**Countries applicable:** SE  
**Notes:** This statement is made 10 February 1999 by Telia AB, a Member of ETSI. In accordance with the ETSI Interim IPR Policy, Article 4.1. Telia AB hereby inform ETSI that with reference to ETSI Standards it is the belief of Telia AB that the following IPRs are, or are likely to become, Essential IPRs in relation to ETSI Standards.

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**Company name:** Telia AB  
**Project:** UMTS  
**Country of registration:** n/a  
**Application no.:** 9501066-6  
**Countries applicable:** SE  
**Notes:** This statement is made 10 February 1999 by Telia AB, a Member of ETSI. In accordance with the ETSI Interim IPR Policy, Article 4.1. Telia AB hereby inform ETSI that with reference to ETSI Standards it is the belief of Telia AB that the following IPRs are, or are likely to become, Essential IPRs in relation to ETSI Standards.

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**Company name:** Telia AB  
**Project:** UMTS  
**Country of registration:** n/a  
**Application no.:** 95930765.3  
**Countries applicable:** EPO  
**Notes:** This statement is made 10 February 1999 by Telia AB, a Member of ETSI. In accordance with the ETSI Interim IPR Policy, Article 4.1. Telia AB hereby inform ETSI that with reference to ETSI Standards it is the belief of Telia AB that the following IPRs are, or are likely to become, Essential IPRs in relation to ETSI Standards.

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**Company name:** Telia AB  
**Project:** UMTS  
**Country of registration:** n/a  
**Patent no.:** 505 006  
**Countries applicable:** SE  
**Notes:** This statement is made 10 February 1999 by Telia AB, a Member of ETSI. In accordance with the ETSI Interim IPR Policy, Article 4.1. Telia AB hereby inform ETSI that with reference to ETSI Standards it is the belief of Telia AB that the following IPRs are, or are likely to become, Essential IPRs in relation to ETSI Standards.

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**Company name:** Telia AB  
**Project:** UMTS  
**Country of registration:** n/a  
**Application no.:** 9401948-6  
**Countries applicable:** SE  
**Notes:** This statement is made 10 February 1999 by Telia AB, a Member of ETSI. In accordance with the ETSI Interim IPR Policy, Article 4.1. Telia AB hereby inform ETSI that with reference to ETSI Standards it is the belief of Telia AB that the following IPRs are, or are likely to become, Essential IPRs in relation to ETSI Standards.

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**Company name:** Telia AB  
**Project:** UMTS  
**Country of registration:** n/a  
**Application no.:** 84193  
**Countries applicable:** JP  
**Notes:** This statement is made 10 February 1999 by Telia AB, a Member of ETSI. In accordance with the ETSI Interim IPR Policy, Article 4.1. Telia AB hereby inform ETSI that with reference to ETSI Standards it is the belief of Telia AB that the following IPRs are, or are likely to become, Essential IPRs in relation to ETSI Standards.

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**Company name:** Telia AB  
**Project:** UMTS  
**Country of registration:** n/a  
**Patent no.:** 2265259  
**Countries applicable:** GB  
**Notes:** This statement is made 10 February 1999 by Telia AB, a Member of ETSI. In accordance with the ETSI Interim IPR Policy, Article 4.1. Telia AB hereby inform ETSI that with reference to ETSI Standards it is the belief of Telia AB that the following IPRs are, or are likely to become, Essential IPRs in relation to ETSI Standards.

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**Company name:** Ericsson  
**Project:** UMTS  
**Title:** Method and System for Demodulation of Downlink CDMA Signals  
**Country of registration:** SE  
**Application no.:** 187,062  
**Patent no.:** US-5572552  
**Countries applicable:** US

<b>Company name:</b>	Telia AB
<b>Project:</b>	UMTS
<b>Country of registration:</b>	n/a
<b>Patent no.:</b>	507 640
<b>Countries applicable:</b>	SE
<b>Notes:</b>	This statement is made 10 February 1999 by Telia AB, a Member of ETSI. In accordance with the ETSI Interim IPR Policy, Article 4.1. Telia AB hereby inform ETSI that with reference to ETSI Standards it is the belief of Telia AB that the following IPRs are, or are likely to become, Essential IPRs in relation to ETSI Standards.
<b>Company name:</b>	Ericsson
<b>Project:</b>	UMTS
<b>Title:</b>	Automatic Retransmission Request
<b>Country of registration:</b>	SE
<b>Application no.:</b>	332,114
<b>Patent no.:</b>	US-5633874
<b>Countries applicable:</b>	US
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Segmentation without continuation indicator
<b>Country of registration:</b>	EPO
<b>Application no.:</b>	99947498.4
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Segmentation without continuation indicator
<b>Country of registration:</b>	FI
<b>Application no.:</b>	982167
<b>Patent no.:</b>	106504
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Segmentation without continuation indicator
<b>Country of registration:</b>	PCT
<b>Application no.:</b>	PCT/FI99/00821
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.
<b>Company name:</b>	Nokia Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Shared channel signalling with training sequences in UTRA/TDD
<b>Country of registration:</b>	AU
<b>Application no.:</b>	58322/00
<b>Notes:</b>	The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

<b>Company name:</b>	Ericsson
<b>Project:</b>	UMTS
<b>Title:</b>	Method and Apparatus for Concatenated Coding of Mobile Radio Signals
<b>Country of registration:</b>	SE
<b>Application no.:</b>	678,314
<b>Patent no.:</b>	US-5742619
<b>Countries applicable:</b>	US
<b>Company name:</b>	Ericsson
<b>Project:</b>	UMTS
<b>Title:</b>	Bandwidth Allocation
<b>Country of registration:</b>	SE
<b>Application no.:</b>	544,490
<b>Patent no.:</b>	US-5729531
<b>Countries applicable:</b>	US
<b>Company name:</b>	Ericsson
<b>Project:</b>	UMTS
<b>Title:</b>	Mobile Assisted Handoff
<b>Country of registration:</b>	SE
<b>Application no.:</b>	354,779
<b>Patent no.:</b>	US-5701585
<b>Countries applicable:</b>	US
<b>Company name:</b>	Ericsson
<b>Project:</b>	UMTS
<b>Title:</b>	Method and Apparatus for Spread Spectrum Channel Estimation
<b>Country of registration:</b>	SE
<b>Application no.:</b>	504,339
<b>Patent no.:</b>	US-5677930
<b>Countries applicable:</b>	US
<b>Company name:</b>	Ericsson
<b>Project:</b>	UMTS
<b>Title:</b>	Navigation Assistance for Call Handling in Mobile Telephone Systems
<b>Country of registration:</b>	SE
<b>Application no.:</b>	384,334
<b>Patent no.:</b>	US-5670964
<b>Countries applicable:</b>	US
<b>Company name:</b>	Ericsson
<b>Project:</b>	UMTS
<b>Title:</b>	Dynamic Control of Transmitting Power at a Transmitter and Attenuation at a Receiver
<b>Country of registration:</b>	SE
<b>Application no.:</b>	061,043
<b>Patent no.:</b>	US-5669066
<b>Countries applicable:</b>	AU, US, PK, TR, TW, MX, ZA
<b>Company name:</b>	Ericsson
<b>Project:</b>	UMTS
<b>Title:</b>	Low Capacity Mobile Assisted Handoff in a Cellular Communications Network
<b>Country of registration:</b>	SE
<b>Application no.:</b>	103,135
<b>Patent no.:</b>	US-5517674
<b>Countries applicable:</b>	US
<b>Company name:</b>	Telia AB
<b>Project:</b>	UMTS
<b>Country of registration:</b>	n/a
<b>Patent no.:</b>	0561735
<b>Countries applicable:</b>	BE, CH, LI, DE, FR, NL
<b>Notes:</b>	This statement is made 10 February 1999 by Telia AB, a Member of ETSI. In accordance with the ETSI Interim IPR Policy, Article 4.1. Telia AB hereby inform ETSI that with reference to ETSI Standards it is the belief of Telia AB that the following IPRs are, or are likely to become, Essential IPRs in relation to ETSI Standards.

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**Company name:** Ericsson  
**Project:** UMTS  
**Title:** Method for Regulating Power in a Digital Mobile Telephony System  
**Country of registration:** SE  
**Application no.:** 712,930  
**Patent no.:** US-5241690  
**Countries applicable:** HK, AU, BE, BR, CH, CN, DE, DK, ES, FR, AT, GR, US, IT, KR, LU, MX, MY, NL, NZ, SE, SG, TW, GB

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Shared channel signalling with training sequences in UTRA/TDD  
**Country of registration:** US  
**Application no.:** PCT/FI00/00614  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Ericsson  
**Project:** UMTS  
**Title:** Direct Sequence CDMA Coherent Uplink Detector  
**Country of registration:** SE  
**Application no.:** 235,527  
**Patent no.:** US-5544156  
**Countries applicable:** US, NZ, SG

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**Company name:** Ericsson  
**Project:** UMTS  
**Title:** TDMA for Mobile Access in a CDMA System  
**Country of registration:** SE  
**Application no.:** 866,579  
**Patent no.:** US-5295152  
**Countries applicable:** AU, MX, NZ, TW, US

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**Company name:** Ericsson  
**Project:** UMTS  
**Title:** CDMA Frequency Allocation  
**Country of registration:** SE  
**Application no.:** 868,038  
**Patent no.:** US-5295153  
**Countries applicable:** AU, MX, NZ, TW, US

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Method for routing CN PDUS in 3G networks  
**Country of registration:** PCT  
**Application no.:** PCT/FI99/00522  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Method for routing CN PDUS in 3G networks  
**Country of registration:** US  
**Application no.:** 09/719586  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Method for routing CN PDUS in 3G networks  
**Country of registration:** JP  
**Application no.:** 2000-555452  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Method for routing CN PDUS in 3G networks  
**Country of registration:** FI  
**Application no.:** 981398  
**Patent no.:** 106830  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Method for routing CN PDUS in 3G networks  
**Country of registration:** EPO  
**Application no.:** 99931296.0  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Method for routing CN PDUS in 3G networks  
**Country of registration:** CN  
**Application no.:** 99807410.1  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Method for routing CN PDUS in 3G networks  
**Country of registration:** BR  
**Application no.:** PI9911304-0  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Nokia Corporation  
**Project:** UMTS  
**Title:** Shared channel signalling with training sequences in UTRA/TDD  
**Country of registration:** PCT  
**Application no.:** PCT/FI00/00614  
**Notes:** The SIGNATORY has notified ETSI that it is the proprietor of the above listed IPRs and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above. The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

## UMTS/CDMA

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**Company name:** InterDigital Technology Corp.  
**Project:** UMTS/CDMA  
**Title:** OVERLAYING SPREAD SPRECTRUM CDMA COMMUNICATIONS SYSTEM  
**Country of registration:** US  
**Patent no.:** 5588020  
**Countries applicable:** US  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licenses under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** UMTS/CDMA  
**Title:** BROADBAND CODE DIVISION MULTIPLE ACCESS IN A COMMUNICATION SYSTEM  
**Country of registration:** US  
**Patent no.:** 6049535  
**Countries applicable:** US  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licenses under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** UMTS/CDMA  
**Title:** BROADBAND CODE DIVISION MULTIPLE ACCESS IN A COMMUNICATION SYSTEM  
**Country of registration:** US  
**Patent no.:** 6157619  
**Countries applicable:** US  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licenses under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** UMTS/CDMA  
**Title:** BROADBAND CODE DIVISION MULTIPLE ACCESS IN A COMMUNICATION SYSTEM  
**Country of registration:** ZA  
**Patent no.:** 96/5340  
**Countries applicable:** ZA  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licenses under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** UMTS/CDMA  
**Title:** OVERLAYING SPREAD SPRECTRUM CDMA COMMUNICATIONS SYSTEM  
**Country of registration:** CA  
**Patent no.:** 2091784  
**Countries applicable:** CA  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licenses under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.



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**Company name:** InterDigital Technology Corp.  
**Project:** UMTS/CDMA  
**Title:** OVERLAYING SPREAD SPRECTRUM CDMA COMMUNICATIONS SYSTEM  
**Country of registration:** CA  
**Patent no.:** 2091785  
**Countries applicable:** CA  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licenses under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** UMTS/CDMA  
**Title:** OVERLAYING SPREAD SPRECTRUM CDMA COMMUNICATIONS SYSTEM  
**Country of registration:** EPO  
**Patent no.:** 514539  
**Countries applicable:** EPO  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licenses under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** UMTS/CDMA  
**Title:** OVERLAYING SPREAD SPRECTRUM CDMA COMMUNICATIONS SYSTEM  
**Country of registration:** EPO  
**Patent no.:** 515675  
**Countries applicable:** EPO  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licenses under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** UMTS/CDMA  
**Title:** OVERLAYING SPREAD SPRECTRUM CDMA COMMUNICATIONS SYSTEM  
**Country of registration:** IN  
**Patent no.:** 181867  
**Countries applicable:** IN  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licenses under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** UMTS/CDMA  
**Title:** OVERLAYING SPREAD SPRECTRUM CDMA COMMUNICATIONS SYSTEM  
**Country of registration:** US  
**Patent no.:** 5351269  
**Countries applicable:** US  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licenses under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** UMTS/CDMA  
**Title:** OVERLAYING SPREAD SPRECTRUM CDMA COMMUNICATIONS SYSTEM  
**Country of registration:** US  
**Patent no.:** 5224120  
**Countries applicable:** US  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licenses under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** UMTS/CDMA  
**Title:** OVERLAYING SPREAD SPRECTRUM CDMA COMMUNICATIONS SYSTEM  
**Country of registration:** US  
**Patent no.:** 5703874  
**Countries applicable:** US  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licenses under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** UMTS/CDMA  
**Title:** OVERLAYING SPREAD SPRECTRUM CDMA COMMUNICATIONS SYSTEM  
**Country of registration:** US  
**Patent no.:** 5367533  
**Countries applicable:** US  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licenses under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** UMTS/CDMA  
**Title:** OVERLAYING SPREAD SPRECTRUM CDMA COMMUNICATIONS SYSTEM  
**Country of registration:** US  
**Patent no.:** 5263045  
**Countries applicable:** US  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licenses under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** UMTS/CDMA  
**Title:** BROADBAND CODE DIVISION MULTIPLE ACCESS IN A COMMUNICATION SYSTEM  
**Country of registration:** US  
**Patent no.:** 6212174  
**Countries applicable:** US  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licenses under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** UMTS/CDMA  
**Title:** BROADBAND CODE DIVISION MULTIPLE ACCESS IN A COMMUNICATION SYSTEM  
**Country of registration:** US  
**Patent no.:** 5748687  
**Countries applicable:** US  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licenses under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** UMTS/CDMA  
**Title:** OVERLAYING SPREAD SPRECTRUM CDMA COMMUNICATIONS SYSTEM  
**Country of registration:** US  
**Patent no.:** 5179572  
**Countries applicable:** US  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licenses under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** UMTS/CDMA  
**Title:** OVERLAYING SPREAD SPRECTRUM CDMA COMMUNICATIONS SYSTEM  
**Country of registration:** US  
**Patent no.:** 5228056  
**Countries applicable:** US  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licenses under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** UMTS/CDMA  
**Title:** OVERLAYING SPREAD SPRECTRUM CDMA COMMUNICATIONS SYSTEM  
**Country of registration:** US  
**Patent no.:** 6011789  
**Countries applicable:** US  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licenses under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** UMTS/CDMA  
**Title:** OVERLAYING SPREAD SPRECTRUM CDMA COMMUNICATIONS SYSTEM  
**Country of registration:** US  
**Patent no.:** 5469468  
**Countries applicable:** US  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licenses under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** UMTS/CDMA  
**Title:** BROADBAND CODE DIVISION MULTIPLE ACCESS IN A COMMUNICATION SYSTEM  
**Country of registration:** PK  
**Patent no.:** 135344  
**Countries applicable:** PK  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licenses under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** UMTS/CDMA  
**Title:** SPREAD SPECTRUM SYSTEM AND METHOD  
**Country of registration:** TW  
**Patent no.:** 79369  
**Countries applicable:** TW  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licenses under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** UMTS/CDMA  
**Title:** CDMA/TDMA SPREAD-SPECTRUM COMMUNICATIONS SYSTEM AND METHOD  
**Country of registration:** US  
**Patent no.:** 5260967  
**Countries applicable:** US  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licenses under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** UMTS/CDMA  
**Title:** SPREAD SPECTRUM SYSTEM AND METHOD  
**Country of registration:** US  
**Patent no.:** 5574747  
**Countries applicable:** US  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licenses under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** UMTS/CDMA  
**Title:** SPREAD SPECTRUM SYSTEM AND METHOD  
**Country of registration:** US  
**Patent no.:** 5835527  
**Countries applicable:** US  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licenses under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** UMTS/CDMA  
**Title:** ADAPTIVE POWER CONTROL FOR A SPREAD SPECTRUM TRANSMITTER  
**Country of registration:** US  
**Patent no.:** 5631921  
**Countries applicable:** US  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licenses under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** UMTS/CDMA  
**Title:** CDMA/TDMA SPREAD-SPECTRUM COMMUNICATIONS SYSTEM AND METHOD  
**Country of registration:** US  
**Patent no.:** RE. 35,402  
**Countries applicable:** US  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licenses under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** UMTS/CDMA  
**Title:** ADAPTIVE POWER CONTROL FOR A SPREAD SPECTRUM TRANSMITTER  
**Country of registration:** US  
**Patent no.:** 5535238  
**Countries applicable:** US  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licenses under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** UMTS/CDMA  
**Title:** ADAPTIVE POWER CONTROL FOR A SPREAD SPECTRUM TRANSMITTER  
**Country of registration:** US  
**Patent no.:** 5299226  
**Countries applicable:** US  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licenses under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** UMTS/CDMA  
**Title:** BROADBAND CODE DIVISION MULTIPLE ACCESS IN A COMMUNICATION SYSTEM  
**Country of registration:** Aripo  
**Patent no.:** AP681  
**Countries applicable:** Aripo  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licenses under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** UMTS/CDMA  
**Title:** BROADBAND CODE DIVISION MULTIPLE ACCESS IN A COMMUNICATION SYSTEM  
**Country of registration:** US  
**Patent no.:** 5796776  
**Countries applicable:** US  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licenses under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** UMTS/CDMA  
**Title:** BROADBAND CODE DIVISION MULTIPLE ACCESS IN A COMMUNICATION SYSTEM  
**Country of registration:** n/a  
**Patent no.:** 96/0050  
**Countries applicable:** n/a  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licenses under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** UMTS/CDMA  
**Title:** BROADBAND CODE DIVISION MULTIPLE ACCESS IN A COMMUNICATION SYSTEM  
**Country of registration:** US  
**Patent no.:** 6215778  
**Countries applicable:** US  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licenses under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** UMTS/CDMA  
**Title:** BROADBAND CODE DIVISION MULTIPLE ACCESS IN A COMMUNICATION SYSTEM  
**Country of registration:** PK  
**Patent no.:** 136510  
**Countries applicable:** PK  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licenses under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** UMTS/CDMA  
**Title:** BROADBAND CODE DIVISION MULTIPLE ACCESS IN A COMMUNICATION SYSTEM  
**Country of registration:** PK  
**Patent no.:** 136521  
**Countries applicable:** PK  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licenses under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** UMTS/CDMA  
**Title:** BROADBAND CODE DIVISION MULTIPLE ACCESS IN A COMMUNICATION SYSTEM  
**Country of registration:** TW  
**Patent no.:** NI-090280  
**Countries applicable:** TW  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licenses under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** UMTS/CDMA  
**Title:** ADAPTIVE POWER CONTROL FOR A SPREAD SPECTRUM TRANSMITTER  
**Country of registration:** CA  
**Patent no.:** 2091783  
**Countries applicable:** CA  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licenses under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** UMTS/CDMA  
**Title:** BROADBAND CODE DIVISION MULTIPLE ACCESS IN A COMMUNICATION SYSTEM  
**Country of registration:** US  
**Patent no.:** 5799010  
**Countries applicable:** US  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licenses under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** UMTS/CDMA  
**Title:** OVERLAYING SPREAD SPRECTRUM CDMA COMMUNICATIONS SYSTEM  
**Country of registration:** US  
**Patent no.:** 5161168  
**Countries applicable:** US  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licenses under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** UMTS/CDMA  
**Title:** BROADBAND CODE DIVISION MULTIPLE ACCESS IN A COMMUNICATION SYSTEM  
**Country of registration:** US  
**Patent no.:** 5991329  
**Countries applicable:** US  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licenses under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** UMTS/CDMA  
**Title:** BROADBAND CODE DIVISION MULTIPLE ACCESS IN A COMMUNICATION SYSTEM  
**Country of registration:** US  
**Patent no.:** 5912919  
**Countries applicable:** US  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licenses under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** UMTS/CDMA  
**Title:** BROADBAND CODE DIVISION MULTIPLE ACCESS IN A COMMUNICATION SYSTEM  
**Country of registration:** US  
**Patent no.:** 5991332  
**Countries applicable:** US  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licenses under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** UMTS/CDMA  
**Title:** BROADBAND CODE DIVISION MULTIPLE ACCESS IN A COMMUNICATION SYSTEM  
**Country of registration:** Aripo  
**Patent no.:** AP682  
**Countries applicable:** Aripo  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licenses under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** UMTS/CDMA  
**Title:** SPREAD SPECTRUM CDMA SUBTRACTIVE INTERFERENCE CANCELER SYSTEM  
**Country of registration:** NZ  
**Patent no.:** 314383  
**Countries applicable:** NZ  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licenses under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** UMTS/CDMA  
**Title:** SPREAD SPECTRUM MULTIPATH RECEIVER APPARATUS AND METHOD  
**Country of registration:** CA  
**Patent no.:** 2091782  
**Countries applicable:** CA  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licenses under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** UMTS/CDMA  
**Title:** OVERLAYING SPREAD SPRECTRUM CDMA COMMUNICATIONS SYSTEM  
**Country of registration:** US  
**Patent no.:** 5420896  
**Countries applicable:** US  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licenses under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** UMTS/CDMA  
**Title:** SPREAD SPECTRUM MULTIPATH RECEIVER APPARATUS AND METHOD  
**Country of registration:** EPO  
**Patent no.:** 515624  
**Countries applicable:** EPO  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licenses under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** UMTS/CDMA  
**Title:** SPREAD SPECTRUM MULTIPATH RECEIVER APPARATUS AND METHOD  
**Country of registration:** US  
**Patent no.:** 5081643  
**Countries applicable:** US  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licenses under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** UMTS/CDMA  
**Title:** SPREAD SPECTRUM CELLULAR HANDOFF APPARATUS AND METHOD  
**Country of registration:** US  
**Patent no.:** 5179571  
**Countries applicable:** US  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licenses under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** UMTS/CDMA  
**Title:** SPREAD SPECTRUM CELLULAR HANDOFF APPARATUS AND METHOD  
**Country of registration:** US  
**Patent no.:** 5345467  
**Countries applicable:** US  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licenses under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** UMTS/CDMA  
**Title:** HIGH CAPACITY SPREAD SPECTRUM CHANNEL  
**Country of registration:** US  
**Patent no.:** 5166951  
**Countries applicable:** US  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licenses under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** UMTS/CDMA  
**Title:** OVERLAYING SPREAD SPRECTRUM CDMA COMMUNICATIONS SYSTEM  
**Country of registration:** US  
**Patent no.:** 5365544  
**Countries applicable:** US  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licenses under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** UMTS/CDMA  
**Title:** SPREAD SPECTRUM CDMA SUBTRACTIVE INTERFERENCE CANCELER SYSTEM  
**Country of registration:** JP  
**Patent no.:** 3153894  
**Countries applicable:** JP  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licenses under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.



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**Company name:** InterDigital Technology Corp.  
**Project:** UMTS/CDMA  
**Title:** TRANSMISSION USING AN ANTENNA ARRAY IN A CDMA COMMUNICATION SYSTEM  
**Country of registration:** US  
**Patent no.:** 6115406  
**Countries applicable:** US  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licenses under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** UMTS/CDMA  
**Title:** SPREAD SPECTRUM MULTIPATH RECEIVER APPARATUS AND METHOD  
**Country of registration:** AR  
**Patent no.:** 252826  
**Countries applicable:** AR  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licenses under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** UMTS/CDMA  
**Title:** SPREAD SPECTRUM CDMA SUBTRACTIVE INTERFERENCE CANCELER SYSTEM  
**Country of registration:** NZ  
**Patent no.:** 290723  
**Countries applicable:** NZ  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licenses under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** UMTS/CDMA  
**Title:** SPREAD SPECTRUM CDMA SUBTRACTIVE INTERFERENCE CANCELER SYSTEM  
**Country of registration:** US  
**Patent no.:** 5363403  
**Countries applicable:** US  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licenses under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** UMTS/CDMA  
**Title:** SPREAD SPECTRUM CDMA SUBTRACTIVE INTERFERENCE CANCELER SYSTEM  
**Country of registration:** US  
**Patent no.:** 5553062  
**Countries applicable:** US  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licenses under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** UMTS/CDMA  
**Title:** SPREAD SPECTRUM CDMA SUBTRACTIVE INTERFERENCE CANCELER SYSTEM  
**Country of registration:** US  
**Patent no.:** 5719852  
**Countries applicable:** US  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licenses under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** UMTS/CDMA  
**Title:** SPREAD SPECTRUM SYSTEM AND METHOD  
**Country of registration:** IL  
**Patent no.:** 116444  
**Countries applicable:** IL  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licenses under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** UMTS/CDMA  
**Title:** CDMA/TDMA SPREAD-SPECTRUM COMMUNICATIONS SYSTEM AND METHOD  
**Country of registration:** US  
**Patent no.:** 5410568  
**Countries applicable:** US  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licenses under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** UMTS/CDMA  
**Title:** SPREAD SPECTRUM CDMA SUBTRACTIVE INTERFERENCE CANCELER SYSTEM  
**Country of registration:** US  
**Patent no.:** 6014373  
**Countries applicable:** US  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licenses under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** UMTS/CDMA  
**Title:** SPREAD SPECTRUM CDMA SUBTRACTIVE INTERFERENCE CANCELER SYSTEM  
**Country of registration:** AU  
**Patent no.:** 701816  
**Countries applicable:** AU  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licenses under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** UMTS/CDMA  
**Title:** SPREAD SPECTRUM SYSTEM AND METHOD  
**Country of registration:** US  
**Patent no.:** 5673286  
**Countries applicable:** US  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licenses under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** UMTS/CDMA  
**Title:** OVERLAYING SPREAD SPRECTRUM CDMA COMMUNICATIONS SYSTEM  
**Country of registration:** US  
**Patent no.:** 5506864  
**Countries applicable:** US  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licenses under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** UMTS/CDMA  
**Title:** OVERLAYING SPREAD SPRECTRUM CDMA COMMUNICATIONS SYSTEM  
**Country of registration:** US  
**Patent no.:** 5663956  
**Countries applicable:** US  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licenses under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** UMTS/CDMA  
**Title:** OVERLAYING SPREAD SPRECTRUM CDMA COMMUNICATIONS SYSTEM  
**Country of registration:** US  
**Patent no.:** 5974039  
**Countries applicable:** US  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licenses under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** UMTS/CDMA  
**Title:** OVERLAYING SPREAD SPRECTRUM CDMA COMMUNICATIONS SYSTEM  
**Country of registration:** US  
**Patent no.:** 5274665  
**Countries applicable:** US  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licenses under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** UMTS/CDMA  
**Title:** ADAPTIVE POWER CONTROL FOR A SPREAD SPECTRUM TRANSMITTER  
**Country of registration:** AR  
**Patent no.:** 252087  
**Countries applicable:** AR  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licenses under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** UMTS/CDMA  
**Title:** ADAPTIVE POWER CONTROL FOR A SPREAD SPECTRUM TRANSMITTER  
**Country of registration:** US  
**Patent no.:** 5093840  
**Countries applicable:** US  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licenses under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** UMTS/CDMA  
**Title:** ADAPTIVE POWER CONTROL FOR A SPREAD SPECTRUM TRANSMITTER  
**Country of registration:** EPO  
**Patent no.:** 515610  
**Countries applicable:** EPO  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licenses under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** UMTS/CDMA  
**Title:** SPREAD SPECTRUM SYSTEM AND METHOD  
**Country of registration:** US  
**Patent no.:** 5563907  
**Countries applicable:** US  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licenses under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** UMTS/CDMA  
**Title:** SPREAD SPECTRUM SYSTEM AND METHOD  
**Country of registration:** US  
**Patent no.:** 5920590  
**Countries applicable:** US  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licenses under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** UMTS/CDMA  
**Title:** SPREAD SPECTRUM SYSTEM AND METHOD  
**Country of registration:** US  
**Patent no.:** 6175586  
**Countries applicable:** US  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licenses under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** UMTS/CDMA  
**Title:** SPREAD SPECTRUM SYSTEM AND METHOD  
**Country of registration:** US  
**Patent no.:** 5995538  
**Countries applicable:** US  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licenses under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** UMTS/CDMA  
**Title:** SPREAD SPECTRUM SYSTEM AND METHOD  
**Country of registration:** ZA  
**Patent no.:** 95/10969  
**Countries applicable:** ZA  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licenses under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** UMTS/CDMA  
**Title:** A METHOD OF CONTROLLING INITIAL POWER RAMP-UP IN CDMA SYSTEMS BY USING SHORT CODES  
**Country of registration:** US  
**Patent no.:** 5841768  
**Countries applicable:** US  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licenses under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** UMTS/CDMA  
**Title:** A METHOD OF CONTROLLING INITIAL POWER RAMP-UP IN CDMA SYSTEMS BY USING SHORT CODES  
**Country of registration:** US  
**Patent no.:** 6181949  
**Countries applicable:** US  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licenses under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** UMTS/CDMA  
**Title:** MULTI-CHANNEL VITERBI DECODER  
**Country of registration:** US  
**Patent no.:** 6005898  
**Countries applicable:** US  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licenses under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** InterDigital Technology Corp.  
**Project:** UMTS/CDMA  
**Title:** ADAPTIVE POWER CONTROL FOR A SPREAD SPECTRUM TRANSMITTER  
**Country of registration:** SG  
**Patent no.:** 43891  
**Countries applicable:** SG  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licenses under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

## VDSL

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**Company name:** Marconi Communications Ltd.  
**Project:** VDSL  
**Title:** High Speed digital subscriber lines  
**Country of registration:** PCT  
**Application no.:** GB94 / 02492 Pending  
**ETSI Deliverable:** TS 101 270-2  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Marconi Communications Ltd.  
**Project:** VDSL  
**Title:** High speed digital subscriber lines  
**Country of registration:** EPO  
**Application no.:** 94307769.3  
**Patent no.:** 0653859  
**Countries applicable:** FR, ES, IT, SE  
**ETSI Deliverable:** TS 101 270-2  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Marconi Communications Ltd.  
**Project:** VDSL  
**Title:** High speed digital subscriber lines  
**Country of registration:** EPO  
**Application no.:** 94307769.3  
**Patent no.:** P.69416641.3  
**Countries applicable:** DE  
**ETSI Deliverable:** TS 101 270-2  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Marconi Communications Ltd.  
**Project:** VDSL  
**Title:** High speed digital subscriber lines  
**Country of registration:** US  
**Application no.:** 08 / 334 838  
**Patent no.:** 5668802  
**Countries applicable:** US  
**ETSI Deliverable:** TS 101 270-2  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Marconi Communications Ltd.  
**Project:** VDSL  
**Title:** High speed digital subscriber lines  
**Country of registration:** AU  
**Application no.:** 81494 / 94  
**Patent no.:** 688814  
**Countries applicable:** AU  
**ETSI Deliverable:** TS 101 270-2  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company name:** Marconi Communications Ltd.  
**Project:** VDSL  
**Title:** High speed digital subscriber lines  
**Country of registration:** GB  
**Application no.:** 9421751.0  
**Patent no.:** 2283879  
**Countries applicable:** GB  
**ETSI Deliverable:** TS 101 270-2  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

## 3.2 Other declarations

- Deutsche Telekom AG: has informed ETSI that it does not own, or control, any IPRs which are Essential, or potentially Essential to the ETSI GSM Standards.
- Motorola: has informed ETSI that it has not identified any Motorola IPRs Essential to the DECT Standards at this time.
- Siemens AG: has informed ETSI that it does not own any IPRs which are or are likely to become Essential IPRs in the Adaptive Multi-Rate (AMR) speech codec (GSM Standard).
- Vyyo Inc.: has informed ETSI that it does not have any essential IPRs in relation to ES 201 488 V1.1.1.



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## History

<b>Document history</b>		
Edition 1	July 1996	Publication as ETR 314
Edition 2	July 1997	Publication as ETR 314
V1.3.1	June 1998	Publication
V1.4.1	November 1999	Publication
V1.5.1	December 2000	Publication
V1.6.1	August 2001	Publication