

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

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**Reference**

RSR/IPRC-00003

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**Keywords**

IPR

**ETSI**

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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.

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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
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
BU	Burma
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
CS	Czechoslovakia
CU	Cuba
CV	Cape Verde
CX	Christmas Island
CY	Cyprus
CZ	Czech Republic
DD	German Democratic 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
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
NT	Neutral Zone
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
SU	Ussr
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
YD	Yemen, Democratic
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:** CCL/ITRI  
**Project:** 3GPP  
**Title:** A Code Management System and Method for CDMA Communication Networks  
**Country:** TW  
**Application number:** 09/234,871  
**Countries applicable:** US  
**Standard(s):** 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:** CCL/ITRI  
**Project:** 3GPP  
**Title:** A Code Management System and Method for CDMA Communication Networks  
**Country:** TW  
**Application number:** 88104305  
**Countries applicable:** TW  
**Standard(s):** 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:** CCL/ITRI  
**Project:** 3GPP  
**Title:** A Code Management System and Method for CDMA Communication Networks  
**Country:** TW  
**Application number:** 09/234,871  
**Countries applicable:** TW  
**Standard(s):** 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:** CCL/ITRI  
**Project:** 3GPP  
**Title:** A Code Management System and Method for CDMA Communication Networks  
**Country:** TW  
**Application number:** 88104305  
**Countries applicable:** US  
**Standard(s):** 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:** CCL/ITRI  
**Project:** 3GPP  
**Title:** Data Transfer Method for Real Time Communications  
**Country:** TW  
**Application number:** 09/116,681  
**Countries applicable:** US  
**Standard(s):** 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:** CCL/ITRI  
**Project:** 3GPP  
**Title:** Data Transfer Method for Real Time Communications  
**Country:** TW  
**Application number:** 87103172  
**Patent number:** 106088  
**Countries applicable:** TW  
**Standard(s):** 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:** CCL/ITRI  
**Project:** 3GPP  
**Title:** Data Transfer Method for Real-Time Communications  
**Country:** TW  
**Application number:** 09/116,681  
**Countries applicable:** US  
**Standard(s):** 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:** CCL/ITRI  
**Project:** 3GPP  
**Title:** Data Transfer Method for Real-Time Communications  
**Country:** TW  
**Application number:** 87103172  
**Patent number:** 106088  
**Countries applicable:** TW  
**Standard(s):** 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:** Mitsubishi Electric Corporation  
**Project:** 3GPP  
**Title:** Data Conversion Apparatus and Data Conversion Method  
**Country:** JP  
**Application number:** PCT/JP96/02154  
**Countries applicable:** AU, CA, CN, JP, KR, NO, SG, US, EP ( 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:** Wi-Lan Inc.  
**Project:** 3GPP  
**Title:** Multicode Direct Sequence Spread Spectrum  
**Country:** CA  
**Application number:** 186,784  
**Patent number:** 5,555,268  
**Countries applicable:** USA  
**Standard(s):** 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.

## BRAN

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**Company:** Ascom Management AG  
**Project:** BRAN  
**Title:** Dynamic assignment of signalling virtual channels for wireless ATM systems  
**Country:** EP  
**Application number:** 1997/103854  
**Patent number:** 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:** Ascom Management AG  
**Project:** BRAN  
**Title:** Dynamic assignment of signalling virtual channels for wireless ATM systems  
**Country:** US  
**Patent number:** 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:** Ascom Management AG  
**Project:** BRAN  
**Title:** Dynamic assignment of signalling virtual channels for wireless ATM systems  
**Country:** WO  
**Patent number:** 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:** Ascom Management AG  
**Project:** BRAN  
**Title:** Dynamic Connection Mapping in wireless ATM Systems  
**Country:** EP  
**Application number:** 1997/918309  
**Patent number:** 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.

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**Company:** Ascom Management AG  
**Project:** BRAN  
**Title:** Dynamic connection mapping in wireless ATM systems  
**Country:** US  
**Patent number:** 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:** Ascom Management AG  
**Project:** BRAN  
**Title:** Dynamic Connection Mapping in wireless ATM Systems  
**Country:** WO  
**Patent number:** 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.



## Cable Modem

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**Company:** 3COM Corporation  
**Project:** Cable Modem  
**Title:** Cable Modem With Dribble Grant Access System and Method  
**Country:** US  
**Application number:** Pending  
**Countries applicable:** US  
**Standard(s):** 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:** 3COM Corporation  
**Project:** Cable Modem  
**Title:** Method and System for Bundling Data In a Data Over Cable System  
**Country:** US  
**Application number:** Pending  
**Countries applicable:** US  
**Standard(s):** 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:** 3COM Corporation  
**Project:** Cable Modem  
**Title:** Method and System For Providing Quality of Service in a Data Cable System Using Configuration Protocol Messaging  
**Country:** US  
**Application number:** Pending  
**Countries applicable:** US  
**Standard(s):** 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:** 3COM Corporation  
**Project:** Cable Modem  
**Title:** Method and System for Provisioning Network Addresses in a Data-Over-cable System  
**Country:** US  
**Application number:** Pending  
**Countries applicable:** US  
**Standard(s):** 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:** 3COM Corporation  
**Project:** Cable Modem  
**Title:** Method and System for Quality of Service Based Data Forwarding In A Data Over Cable System  
**Country:** US  
**Application number:** Pending  
**Countries applicable:** US  
**Standard(s):** 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:** 3COM Corporation  
**Project:** Cable Modem  
**Title:** Method and System For Secure Cable Modem Initialization  
**Country:** US  
**Application number:** 09/018,756  
**Patent number:** US 6,070,246  
**Countries applicable:** US  
**Standard(s):** 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:** 3COM Corporation  
**Project:** Cable Modem  
**Title:** Method For Changing Type of Service in a Data Over Cable System  
**Country:** US  
**Application number:** Pending  
**Countries applicable:** US  
**Standard(s):** 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:** 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:** US  
**Application number:** Pending  
**Countries applicable:** US  
**Standard(s):** 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:** Lucent Technologies Inc.  
**Project:** Cable Modem  
**Country:** US  
**Application number:** n/a  
**Standard(s):** 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:** Motorola  
**Project:** Cable Modem  
**Country:** US  
**Application number:** n/a  
**Standard(s):** 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

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**Company:** France Telecom  
**Project:** DAB  
**Title:** Digital transmission system for transmitting an additional signal such as a surround signal  
**Country:** n/a  
**Application number:** (div of EP-0 402 973)  
**Patent number:** EP-0 599 825  
**Countries applicable:** AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, HK, SG, IN, US  
**Standard(s):** ETS 300 401

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**Company:** France Telecom  
**Project:** DAB  
**Title:** Digital transmission system using subband coding  
**Country:** EP  
**Application number:** EP 89201408  
**Patent number:** 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  
**Standard(s):** ETS 300 401

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**Company:** 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:** NL  
**Application number:** NL 89 014023  
**Patent number:** 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  
**Standard(s):** ETS 300 401

---

**Company:** France Telecom  
**Project:** DAB  
**Title:** Dispositif de transmission de données numériques à au moins deux niveaux de protection, et dispositif de réception correspondant  
**Country:** FR  
**Application number:** FR 90 03927  
**Patent number:** FR-2 660 131  
**Countries applicable:** FR, GB, DE, US  
**Standard(s):** ETS 300 401

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**Company:** France Telecom  
**Project:** DAB  
**Title:** Intensity stereo encoding and decoding in a transmission system  
**Country:** n/a  
**Application number:** (div of EP-0 402 973)  
**Patent number:** EP-0 599 824  
**Countries applicable:** AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, HK, SG, IN, US  
**Standard(s):** ETS 300 401

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**Company:** France Telecom  
**Project:** DAB  
**Title:** Method and installation for digital communication, particularly between an towards moving vehicles  
**Country:** PCT  
**Application number:** PCT/EP-87/00346  
**Patent number:** WO-88/00417  
**Countries applicable:** FR, DE, GB, IT, NL, SE, US, JP  
**Standard(s):** ETS 300 401

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**Company:** 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:** FR  
**Application number:** FR 90 01492  
**Patent number:** FR-2 658 017  
**Countries applicable:** FR, GB, DE, US  
**Standard(s):** ETS 300 401

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**Company:** 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:** EP  
**Application number:** 93 116 353.9 (div of EP0369371)  
**Patent number:** EP 0 600 193  
**Countries applicable:** FR, ES, GB, IT, NL  
**Standard(s):** ETS 300 401

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**Company:** 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:** FR  
**Application number:** FR 88 15216 (=EP0369917)  
**Patent number:** FR-2 639 495  
**Countries applicable:** FR, DE, ES, GB, IT, NL, US  
**Standard(s):** ETS 300 401

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**Company:** Grundig E.M.V.  
**Project:** DAB  
**Title:** Gleichwellennetze und Empfänger zum Durchführen der empfangsseitigen Massnahmen  
**Country:** EPC  
**Application number:** HEI-5-169296  
**Standard(s):** ETS 300 401

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**Company:** Grundig E.M.V.  
**Project:** DAB  
**Title:** Method for the Adaptive Assignment of the Transmission Capacity of a Transmission Channel  
**Country:** DE  
**Application number:** DE 44 25 973  
**Countries applicable:** DE

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**Company:** Grundig E.M.V.  
**Project:** DAB  
**Title:** Method for the Adaptive Assignment of the Transmission Capacity of a Transmission Channel  
**Country:** PCT  
**Application number:** PCT/EP95/02853  
**Patent number:** WO 96/03841  
**Countries applicable:** AU, BR, CA, CN, CZ, FI, JP, KR, MX, NO, PL, US, EPC

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**Company:** Grundig E.M.V.  
**Project:** DAB  
**Title:** Procedure for the Identification of Transmitter or Region in Common-wave Broadcasting Network  
**Country:** DE  
**Application number:** DE 41 02 408  
**Countries applicable:** DE

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**Company:** Grundig E.M.V.  
**Project:** DAB  
**Title:** Procedure for the Identification of Transmitter or Region in Common-wave Broadcasting Networks  
**Country:** PCT  
**Application number:** 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:** Grundig E.M.V.  
**Project:** DAB  
**Title:** Process, Sender and Receiver for Transmitting and Selecting Local Radio Programs in a Common-wave Broadcasting Network  
**Country:** DE  
**Application number:** DE 44 24 778  
**Countries applicable:** DE

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**Company:** Grundig E.M.V.  
**Project:** DAB  
**Title:** Process, Sender and Receiver for Transmitting and Selecting Local Radio Programs in a Common-wave Broadcasting Network  
**Country:** PCT  
**Application number:** PCT/EP95/02751  
**Patent number:** WO 96/02988  
**Countries applicable:** AU, BR, CA, CN, CZ, FI, JP, KR, MX, NO, PL, US, EPC

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**Company:** Grundig E.M.V.  
**Project:** DAB  
**Title:** Verfahren und Schaltungsanordnung zum Einfügen von Daten in ein Gleichwellenübertragungssignal  
**Country:** DE  
**Application number:** DE 43 41 211  
**Countries applicable:** DE

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**Company:** Grundig E.M.V.  
**Project:** DAB  
**Title:** Verfahren und Schaltungsanordnung zum Einfügen von Daten in ein Gleichwellenübertragungssignal  
**Country:** EPC  
**Application number:** 94118808.8  
**Patent number:** EP 0 656 702 A1  
**Countries applicable:** AT, BE, CH, DE, FR, GB, IT, LI, PT

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**Company:** Grundig E.M.V.  
**Project:** DAB  
**Title:** Verfahren und Schaltungsanordnung zur Bestimmung des geographischen Standortes eines Empfängers in einem Gleichwellennetz  
**Country:** DE  
**Application number:** DE 42 23 194  
**Countries applicable:** DE

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**Company:** Grundig E.M.V.  
**Project:** DAB  
**Title:** Verfahren und Schaltungsanordnung zur digitalen Rahmensynchronisation  
**Country:** DE  
**Application number:** DE 44 05 752  
**Countries applicable:** DE

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**Company:** Grundig E.M.V.  
**Project:** DAB  
**Title:** Verfahren und Schaltungsanordnung zur digitalen Rahmensynchronisation  
**Country:** EPC  
**Application number:** 96100540.4  
**Patent number:** EP 0 670 643 A1  
**Countries applicable:** AT, BE, DE, CH, ES, FR, GB, IT, LI, LU, NL, PT, SE

---

**Company:** Grundig E.M.V.  
**Project:** DAB  
**Title:** Verfahren und Schaltungsanordnung zur Realisierung eines Rückübertragungskanal vom Empfänger zum Sender in einem Gleichwellenne  
**Country:** DE  
**Application number:** DE 44 44 889  
**Countries applicable:** DE

---

**Company:** Grundig E.M.V.  
**Project:** DAB  
**Title:** Verfahren zur Übertragung regional unterschiedlicher Informationen in Gleichwellennetze  
**Country:** DE  
**Application number:** DE 42 22 877  
**Countries applicable:** DE  
**Standard(s):** ETS 300 401

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**Company:** Grundig E.M.V.  
**Project:** DAB  
**Title:** Verfahren zur Übertragung regional unterschiedlicher Informationen in Gleichwellennetze  
**Country:** EPC  
**Application number:** 93108160.8  
**Patent number:** EP 0 580 976  
**Countries applicable:** AT, BE, DE, FR, GB, IT  
**Standard(s):** ETS 300 401

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**Company:** IRT  
**Project:** DAB  
**Title:** Digital transmission system for transmitting an additional signal such as a surround signal  
**Country:** n/a  
**Application number:** (div of EP-0 402 973)  
**Patent number:** EP-0 599 825  
**Countries applicable:** AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, HK, SG, IN, US  
**Standard(s):** ETS 300 401

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**Company:** 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:** NL  
**Application number:** NL 89 014023  
**Patent number:** 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  
**Standard(s):** ETS 300 401

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**Company:** IRT  
**Project:** DAB  
**Title:** Intensity stereo encoding and decoding in a transmission system  
**Country:** n/a  
**Application number:** (div of EP-0 402 973)  
**Patent number:** EP-0 599 824  
**Countries applicable:** AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, HK, SG, IN, US  
**Standard(s):** ETS 300 401

---

**Company:** Philips  
**Project:** DAB  
**Title:** Digital transmission system for transmitting an additional signal such as a surround signal  
**Country:** n/a  
**Application number:** (div of EP-0 402 973)  
**Patent number:** EP-0 599 825  
**Countries applicable:** AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, HK, SG, IN, US  
**Standard(s):** ETS 300 401

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**Company:** Philips  
**Project:** DAB  
**Title:** Digital transmission system using subband coding  
**Country:** EP  
**Application number:** EP 89201408  
**Patent number:** 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  
**Standard(s):** ETS 300 401

---

**Company:** Philips  
**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:** NL  
**Application number:** NL 89 014023  
**Patent number:** 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  
**Standard(s):** ETS 300 401

---

**Company:** Philips  
**Project:** DAB  
**Title:** Intensity stereo encoding and decoding in a transmission system  
**Country:** n/a  
**Application number:** (div of EP-0 402 973)  
**Patent number:** EP-0 599 824  
**Countries applicable:** AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, HK, SG, IN, US  
**Standard(s):** ETS 300 401

---

**Company:** Télédiffusion de France  
**Project:** DAB  
**Title:** Digital transmission system for transmitting an additional signal such as a surround signal  
**Country:** n/a  
**Application number:** (div of EP-0 402 973)  
**Patent number:** EP-0 599 825  
**Countries applicable:** AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, HK, SG, IN, US  
**Standard(s):** ETS 300 401

---

**Company:** Télédiffusion de France  
**Project:** DAB  
**Title:** Digital transmission system using subband coding  
**Country:** EP  
**Application number:** EP 89201408  
**Patent number:** 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  
**Standard(s):** ETS 300 401

---

**Company:** 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:** NL  
**Application number:** NL 89 014023  
**Patent number:** 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  
**Standard(s):** ETS 300 401

---

**Company:** Télédiffusion de France  
**Project:** DAB  
**Title:** Dispositif de transmission de données numériques à au moins deux niveaux de protection, et dispositif de réception correspondant  
**Country:** FR  
**Application number:** FR 90 03927  
**Patent number:** FR-2 660 131  
**Countries applicable:** FR, GB, DE, US  
**Standard(s):** ETS 300 401

---

**Company:** Télédiffusion de France  
**Project:** DAB  
**Title:** Intensity stereo encoding and decoding in a transmission system  
**Country:** n/a  
**Application number:** (div of EP-0 402 973)  
**Patent number:** EP-0 599 824  
**Countries applicable:** AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, HK, SG, IN, US  
**Standard(s):** ETS 300 401

---

**Company:** Télédiffusion de France  
**Project:** DAB  
**Title:** Method and installation for digital communication, particularly between an towards moving vehicles  
**Country:** PCT  
**Application number:** PCT/EP-87/00346  
**Patent number:** WO-88/00417  
**Countries applicable:** FR, DE, GB, IT, NL, SE, US, JP  
**Standard(s):** ETS 300 401

---

**Company:** 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:** FR  
**Application number:** FR 90 01492  
**Patent number:** FR-2 658 017  
**Countries applicable:** FR, GB, DE, US  
**Standard(s):** ETS 300 401

---

**Company:** 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 synchronisation analogique  
**Country:** EP  
**Application number:** 93 116 353.9 (div of EP0369371)  
**Patent number:** EP 0 600 193  
**Countries applicable:** FR, ES, GB, IT, NL  
**Standard(s):** ETS 300 401

---

**Company:** 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 synchronisation analogique  
**Country:** FR  
**Application number:** FR 88 15216 (=EP0369917)  
**Patent number:** FR-2 639 495  
**Countries applicable:** FR, DE, ES, GB, IT, NL, US  
**Standard(s):** ETS 300 401



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**Company:** Telefunken Sendertechnik GmbH  
**Project:** DAB  
**Title:** Verfahren und Anordnung zur Messung der Trägerfrequenzablage in einem Mehrkanalübertragungssystem  
**Country:** DE  
**Application number:** P 41 28 713  
**Patent number:** EP 0529 421  
**Countries applicable:** AT, BE, CH, DE, FR, GB, GR, IT, LI, LU, MC, NL, PT, SE, US  
**Standard(s):** ETS 300 401

---

**Company:** Telefunken Sendertechnik GmbH  
**Project:** DAB  
**Title:** Verfahren zur digitalen Datenübertragung im Nullsymbol des COFDM-Modulationsverfahrens  
**Country:** DE  
**Application number:** P 41 38 770  
**Patent number:** EP 0614 584  
**Countries applicable:** DE, European Patent (DE, FR, GB, IT, ES, SE, US)  
**Standard(s):** ETS 300 401

## DCS 1800

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**Company:** Matra  
**Project:** DCS 1800  
**Country:** AU  
**Application number:** 638 160

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**Company:** Matra  
**Project:** DCS 1800  
**Country:** EPC  
**Application number:** 0472 460 B1

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**Company:** Matra  
**Project:** DCS 1800  
**Country:** FI  
**Application number:** 91 03 903

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**Company:** Philips  
**Project:** DCS 1800  
**Title:** Dienstintegriertes Funkübertragungssystem  
**Country:** EPC  
**Application number:** 86200724.2  
**Patent number:** EP 0 201 126 B1

---

**Company:** Philips  
**Project:** DCS 1800  
**Title:** Digitales Funkübertragungssystem mit variabler Zeitschlitzdauer der Zeitschlitze im Zeitmultiplexrahmen  
**Country:** EPC  
**Application number:** 86201267.1  
**Patent number:** EP 0 210 698

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**Company:** Philips  
**Project:** DCS 1800  
**Title:** Improvements in or relating to Digital Filters  
**Country:** GB  
**Application number:** 8104155  
**Patent number:** GB 2069799  
**Countries applicable:** GB

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**Company:** Philips  
**Project:** DCS 1800  
**Title:** Information transmission system  
**Country:** GB  
**Application number:** 8008510  
**Patent number:** GB 2063011  
**Countries applicable:** GB

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**Company:** Philips  
**Project:** DCS 1800  
**Title:** Multi-pulse excitation linear-predictive speech coder  
**Country:** EPC  
**Application number:** 86200434.8  
**Patent number:** EP 0 195 487 B1

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**Company:** Philips  
**Project:** DCS 1800  
**Title:** Multiple-access communications system  
**Country:** EPC  
**Application number:** 84201107.4  
**Patent number:** EP 0 134 057

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**Company:** Philips  
**Project:** DCS 1800  
**Title:** Procédé pour reconnaître l'utilisation illicite d'une identification  
**Country:** FR  
**Application number:** 8504296  
**Patent number:** FR 256 184 1  
**Countries applicable:** FR

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**Company:** Philips  
**Project:** DCS 1800  
**Title:** TDMA system of transmitting information between a central station and sub-stations  
**Country:** GB  
**Application number:** 8207811  
**Patent number:** GB 209 55 16  
**Countries applicable:** GB

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**Company:** Philips  
**Project:** DCS 1800  
**Title:** Verfahren und Steuereinrichtung zum Auswählen eines Organisationskanals durch eine bewegliche Funkstation  
**Country:** EPC  
**Application number:** 87200545.9  
**Patent number:** EP 0 240 073 B1

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**Company:** Philips  
**Project:** DCS 1800  
**Title:** Verfahren und Steuereinrichtung zum Auswählen eines Organisationskanals in einer beweglichen Funkstation eines Funkübertragungs  
**Country:** EPC  
**Application number:** 83201767.7  
**Patent number:** EP 0 111 972 B1

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**Company:** Philips  
**Project:** DCS 1800  
**Title:** Verfahren und Steuereinrichtung zur Verteilung der Verkehrsmenge auf verschiedene Organisationskanäle eines Funkübertragungssys  
**Country:** EPC  
**Application number:** 83201765.1  
**Patent number:** EP 0 111 970 B1

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**Company:** Philips  
**Project:** DCS 1800  
**Title:** Verfahren und Steuereinrichtung zur Verteilung der Verkehrsmenge auf verschiedene Organisationskanäle eines Funkübertragungssys  
**Country:** EPC  
**Application number:** 83201766.9  
**Patent number:** EP 0 111 971 B1

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**Company:** Philips  
**Project:** DCS 1800  
**Title:** Verfahren zum Zugreifen auf Übertragungskanäle eines Nachrichtenübertragungssystems  
**Country:** EPC  
**Application number:** 82107529.8  
**Patent number:** EP 0 073 014 B1

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**Company:** Philips  
**Project:** DCS 1800  
**Title:** Verfahren zur Überwachung einer zwischen ortsfester Funkstation und beweglicher Funkstation bestehenden Funkverbindung  
**Country:** EPC  
**Application number:** 83201768.5  
**Patent number:** EP 0 111 973 B1

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## DECT

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**Company:** Alcatel  
**Project:** DECT  
**Title:** Burst Alignment Procedure  
**Country:** AR  
**Application number:** 95010299  
**Countries applicable:** AR  
**Standard(s):** ETR 310

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**Company:** Alcatel  
**Project:** DECT  
**Title:** Burst Alignment Procedure  
**Country:** AU  
**Application number:** 41762  
**Countries applicable:** AU  
**Standard(s):** ETR 310

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**Company:** Alcatel  
**Project:** DECT  
**Title:** Burst Alignment Procedure  
**Country:** BR  
**Application number:** 9506646-2  
**Countries applicable:** BR  
**Standard(s):** ETR 310

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**Company:** Alcatel  
**Project:** DECT  
**Title:** Burst Alignment Procedure  
**Country:** CN  
**Application number:** 95191406.5  
**Countries applicable:** CN  
**Standard(s):** ETR 310

---

**Company:** Alcatel  
**Project:** DECT  
**Title:** Burst Alignment Procedure  
**Country:** EPC  
**Application number:** 95940248.8  
**Patent number:** 795238  
**Countries applicable:** FR, DE, IT, SE, GB  
**Standard(s):** ETR 310

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**Company:** Alcatel  
**Project:** DECT  
**Title:** Burst Alignment Procedure  
**Country:** ES  
**Application number:** 9402471  
**Countries applicable:** ES  
**Standard(s):** ETR 310

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**Company:** Alcatel  
**Project:** DECT  
**Title:** Burst Alignment Procedure  
**Country:** FI  
**Application number:** 963008  
**Countries applicable:** FI  
**Standard(s):** ETR 310

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**Company:** Alcatel  
**Project:** DECT  
**Title:** Burst Alignment Procedure  
**Country:** HU  
**Application number:** 9601896  
**Countries applicable:** HU  
**Standard(s):** ETR 310

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**Company:** Alcatel  
**Project:** DECT  
**Title:** Burst Alignment Procedure  
**Country:** IN  
**Application number:** 201195  
**Countries applicable:** IN  
**Standard(s):** ETR 310

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**Company:** Alcatel  
**Project:** DECT  
**Title:** Burst Alignment Procedure  
**Country:** MA  
**Application number:** 24082  
**Countries applicable:** MA  
**Standard(s):** ETR 310

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**Company:** Alcatel  
**Project:** DECT  
**Title:** Burst Alignment Procedure  
**Country:** NZ  
**Application number:** 297000  
**Countries applicable:** NZ  
**Standard(s):** ETR 310

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**Company:** Alcatel  
**Project:** DECT  
**Title:** Burst Alignment Procedure  
**Country:** PE  
**Application number:** 285380  
**Countries applicable:** PE  
**Standard(s):** ETR 310

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**Company:** Alcatel  
**Project:** DECT  
**Title:** Burst Alignment Procedure  
**Country:** PL  
**Application number:** 315625  
**Countries applicable:** PL  
**Standard(s):** ETR 310

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**Company:** Alcatel  
**Project:** DECT  
**Title:** Burst Alignment Procedure  
**Country:** RU  
**Application number:** 86116584  
**Countries applicable:** RU  
**Standard(s):** ETR 310

---

**Company:** Alcatel  
**Project:** DECT  
**Title:** Burst Alignment Procedure  
**Country:** TI  
**Application number:** 1344  
**Countries applicable:** TI  
**Standard(s):** ETR 310

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**Company:** Alcatel  
**Project:** DECT  
**Title:** Burst Alignment Procedure  
**Country:** ZA  
**Application number:** 959877  
**Countries applicable:** ZA  
**Standard(s):** ETR 310

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**Company:** Alcatel  
**Project:** DECT  
**Title:** DECT Frame Synchronization  
**Country:** AU  
**Application number:** 56167  
**Countries applicable:** AU  
**Standard(s):** ETR 310

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**Company:** Alcatel  
**Project:** DECT  
**Title:** DECT Frame Synchronization  
**Country:** DE  
**Application number:** 19523489  
**Countries applicable:** DE  
**Standard(s):** ETR 310

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**Company:** Alcatel  
**Project:** DECT  
**Title:** DECT Frame Synchronization  
**Country:** EPC  
**Application number:** 96109652.6  
**Patent number:** 751634  
**Countries applicable:** AT, BE, FR, DE, IT, LI, NL, ES, SE, CH, GB  
**Standard(s):** ETR 310

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**Company:** Alcatel  
**Project:** DECT  
**Title:** DECT Frame Synchronization  
**Country:** JP  
**Application number:** 170176/96  
**Countries applicable:** JP  
**Standard(s):** ETR 310

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**Company:** Alcatel  
**Project:** DECT  
**Title:** DECT Frame Synchronization  
**Country:** NZ  
**Application number:** 286843  
**Countries applicable:** NZ  
**Standard(s):** ETR 310

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**Company:** Alcatel  
**Project:** DECT  
**Title:** DECT Frame Synchronization  
**Country:** US  
**Application number:** 661373  
**Countries applicable:** US  
**Standard(s):** ETR 310

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**Company:** Alcatel  
**Project:** DECT  
**Title:** Method for transmitting information at high speed by multiple burst allocation and associate receiving method and device.  
**Country:** AU  
**Application number:** 56167  
**Countries applicable:** AU  
**Standard(s):** ETS 300 175-3  
**Notes:** in general clause 4.22, figure 6; clause 6.2.1.3 more particularly

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**Company:** Alcatel  
**Project:** DECT  
**Title:** Method for transmitting information at high speed by multiple burst allocation and associate receiving method and device.  
**Country:** CA  
**Application number:** 2112511  
**Countries applicable:** CA  
**Standard(s):** ETS 300 175-3  
**Notes:** in general clause 4.22, figure 6; clause 6.2.1.3 more particularly

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**Company:** Alcatel  
**Project:** DECT  
**Title:** Method for transmitting information at high speed by multiple burst allocation and associate receiving method and device.  
**Country:** EPC  
**Application number:** 93403177.4  
**Patent number:** 0605312  
**Countries applicable:** AT, BE, DK, FR, DE, IT, NL, ES, SE, CH, GB  
**Standard(s):** ETS 300 175-3  
**Notes:** in general clause 4.22, figure 6; clause 6.2.1.3 more particularly

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**Company:** Alcatel  
**Project:** DECT  
**Title:** Method for transmitting information at high speed by multiple burst allocation and associate receiving method and device.  
**Country:** FI  
**Application number:** 935885  
**Countries applicable:** FI  
**Standard(s):** ETS 300 175-3  
**Notes:** in general clause 4.22, figure 6; clause 6.2.1.3 more particularly

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**Company:** Alcatel  
**Project:** DECT  
**Title:** Method for transmitting information at high speed by multiple burst allocation and associate receiving method and device.  
**Country:** FR  
**Application number:** 92-15934  
**Patent number:** 2700086  
**Standard(s):** ETS 300 175-3

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**Company:** Alcatel  
**Project:** DECT  
**Title:** Method for transmitting information at high speed by multiple burst allocation and associate receiving method and device.  
**Country:** JP  
**Application number:** 331170/93  
**Countries applicable:** JP  
**Standard(s):** ETS 300 175-3  
**Notes:** in general clause 4.22, figure 6; clause 6.2.1.3 more particularly

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**Company:** Alcatel  
**Project:** DECT  
**Title:** Method for transmitting information at high speed by multiple burst allocation and associate receiving method and device.  
**Country:** NO  
**Application number:** 934859  
**Countries applicable:** NO  
**Standard(s):** ETS 300 175-3  
**Notes:** in general clause 4.22, figure 6; clause 6.2.1.3 more particularly

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**Company:** Alcatel  
**Project:** DECT  
**Title:** Method for transmitting information at high speed by multiple burst allocation and associate receiving method and device.  
**Country:** US  
**Application number:** 175555  
**Countries applicable:** US  
**Standard(s):** ETS 300 175-3  
**Notes:** in general clause 4.22, figure 6; clause 6.2.1.3 more particularly

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**Company:** Alcatel  
**Project:** DECT  
**Title:** Ukrainian SSR  
**Country:** Ukrainian SSR  
**Application number:** 9504662  
**Countries applicable:** Ukrainian SSR  
**Standard(s):** ETR 310

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**Company:** Alcatel  
**Project:** DECT  
**Title:** Ukrainian SSR  
**Country:** US  
**Application number:** 676389  
**Countries applicable:** US  
**Standard(s):** ETR 310

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**Company:** Alcatel  
**Project:** DECT  
**Title:** Wireless Tie Line  
**Country:** DE  
**Application number:** 4201561.8  
**Countries applicable:** DE  
**Standard(s):** ETS 300 822

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**Company:** Alcatel  
**Project:** DECT  
**Title:** Wireless Tie Line  
**Country:** EPC  
**Application number:** 92121870.7  
**Patent number:** 553485  
**Countries applicable:** AT, BE, DE, IT, NL, ES, SE, CH, GB  
**Standard(s):** ETS 300 822

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**Company:** Alcatel  
**Project:** DECT  
**Title:** Wireless Tie Line  
**Country:** US  
**Application number:** 6808  
**Patent number:** 5355402  
**Countries applicable:** US  
**Standard(s):** ETS 300 822



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**Company:** Canon  
**Project:** DECT  
**Title:** MMAP  
**Country:** 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:** Nokia  
**Project:** DECT  
**Title:** Implementation of mutual rate adaptations in data services between GSM and DECT  
**Country:** EPC  
**Application number:** 96304138.9  
**Patent number:** EP 748136  
**Countries applicable:** NL, ES, GB, IT, FR, DE  
**Standard(s):** ETS 300 756, ETS 300 792

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**Company:** Nokia  
**Project:** DECT  
**Title:** Implementation of mutual rate adaptations in data services between GSM and DECT  
**Country:** FI  
**Application number:** 952813  
**Patent number:** FI 98176  
**Standard(s):** ETS 300 756, ETS 300 792

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**Company:** Nokia  
**Project:** DECT  
**Title:** Implementation of mutual rate adaptations in data services between GSM and DECT  
**Country:** JP  
**Application number:** 8-136887  
**Standard(s):** ETS 300 756, ETS 300 792

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**Company:** Nokia  
**Project:** DECT  
**Title:** Implementation of mutual rate adaptations in data services between GSM and DECT  
**Country:** PCT  
**Application number:** PCT/FI96/00305  
**Patent number:** WO 9641490  
**Standard(s):** ETS 300 756, ETS 300 792

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**Company:** Nokia Corporation  
**Project:** DECT  
**Title:** DATA TRANSMISSION METHOD  
**Country:** AT  
**Application number:** 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:** Nokia Corporation  
**Project:** DECT  
**Title:** DATA TRANSMISSION METHOD  
**Country:** CH  
**Application number:** 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:** Nokia Corporation  
**Project:** DECT  
**Title:** DATA TRANSMISSION METHOD  
**Country:** CN  
**Application number:** 95196747,9  
**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.

---

**Company:** Nokia Corporation  
**Project:** DECT  
**Title:** DATA TRANSMISSION METHOD  
**Country:** DE  
**Application number:** 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:** Nokia Corporation  
**Project:** DECT  
**Title:** DATA TRANSMISSION METHOD  
**Country:** FI  
**Application number:** 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:** Nokia Corporation  
**Project:** DECT  
**Title:** DATA TRANSMISSION METHOD  
**Country:** FR  
**Application number:** 9514476  
**Patent number:** 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:** Nokia Corporation  
**Project:** DECT  
**Title:** DATA TRANSMISSION METHOD  
**Country:** GB  
**Application number:** 9525018,9  
**Patent number:** 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:** Nokia Corporation  
**Project:** DECT  
**Title:** DATA TRANSMISSION METHOD  
**Country:** IT  
**Application number:** MI95A002579  
**Patent number:** 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:** Nokia Corporation  
**Project:** DECT  
**Title:** DATA TRANSMISSION METHOD  
**Country:** JP  
**Application number:** 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:** Nokia Corporation  
**Project:** DECT  
**Title:** DATA TRANSMISSION METHOD  
**Country:** SE  
**Application number:** 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.

---

**Company:** Nokia Corporation  
**Project:** DECT  
**Title:** DATA TRANSMISSION METHOD  
**Country:** US  
**Application number:** 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.

---

**Company:** Nokia Corporation  
**Project:** DECT  
**Title:** IMPLEMENTATION OF MUTUAL RATE ADAPTATIONS IN DATA SERVICES BETWEEN GSM AND DECT  
**Country:** AU  
**Application number:** 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.

---

**Company:** Nokia Corporation  
**Project:** DECT  
**Title:** IMPLEMENTATION OF MUTUAL RATE ADAPTATIONS IN DATA SERVICES BETWEEN GSM AND DECT  
**Country:** CN  
**Application number:** 96195981,9  
**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.

---

**Company:** Nokia Corporation  
**Project:** DECT  
**Title:** IMPLEMENTATION OF MUTUAL RATE ADAPTATIONS IN DATA SERVICES BETWEEN GSM AND DECT  
**Country:** EPO  
**Application number:** 96304138,9  
**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.

---

**Company:** Nokia Corporation  
**Project:** DECT  
**Title:** IMPLEMENTATION OF MUTUAL RATE ADAPTATIONS IN DATA SERVICES BETWEEN GSM AND DECT  
**Country:** FI  
**Application number:** 952813  
**Patent number:** 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.

---

**Company:** Nokia Corporation  
**Project:** DECT  
**Title:** IMPLEMENTATION OF MUTUAL RATE ADAPTATIONS IN DATA SERVICES BETWEEN GSM AND DECT  
**Country:** JP  
**Application number:** 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.

---

**Company:** Nokia Corporation  
**Project:** DECT  
**Title:** IMPLEMENTATION OF MUTUAL RATE ADAPTATIONS IN DATA SERVICES BETWEEN GSM AND DECT  
**Country:** RU  
**Application number:** 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.

---

**Company:** Nokia Corporation  
**Project:** DECT  
**Title:** IMPLEMENTATION OF MUTUAL RATE ADAPTATIONS IN DATA SERVICES BETWEEN GSM AND DECT  
**Country:** US  
**Application number:** 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:** Telia AB  
**Project:** DECT  
**Country:** n/a  
**Application number:** PCT/SE98/01087  
**Countries applicable:** EP, 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:** Telia AB  
**Project:** DECT  
**Country:** n/a  
**Patent number:** 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:** Telia AB  
**Project:** DECT  
**Country:** n/a  
**Application number:** 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:** Telia AB  
**Project:** DECT  
**Country:** n/a  
**Application number:** 722229  
**Countries applicable:** EPC  
**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:** Telia AB  
**Project:** DECT  
**Country:** n/a  
**Application number:** 9624228  
**Countries applicable:** WO  
**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.

---

**Company:** Telia AB  
**Project:** DECT  
**Country:** n/a  
**Application number:** 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:** Telia AB  
**Project:** DECT  
**Country:** n/a  
**Patent number:** 505209  
**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:** Telia AB  
**Project:** DECT  
**Country:** n/a  
**Application number:** 9600458  
**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:** Telia AB  
**Project:** DECT  
**Country:** n/a  
**Application number:** 726690  
**Countries applicable:** EPC  
**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:** Telia AB  
**Project:** DECT  
**Country:** n/a  
**Application number:** 9639785  
**Countries applicable:** WO  
**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:** Telia AB  
**Project:** DECT  
**Country:** n/a  
**Application number:** 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:** Telia AB  
**Project:** DECT  
**Country:** n/a  
**Application number:** 776551  
**Countries applicable:** EPC  
**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:** Telia AB  
**Project:** DECT  
**Country:** n/a  
**Application number:** 9500121-0  
**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:** Telia AB  
**Project:** DECT  
**Country:** n/a  
**Application number:** 9504962  
**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:** Telia AB  
**Project:** DECT  
**Country:** n/a  
**Application number:** 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:** Telia AB  
**Project:** DECT  
**Country:** n/a  
**Application number:** 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:** Telia AB  
**Project:** DECT  
**Country:** n/a  
**Application number:** 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:** Telia AB  
**Project:** DECT  
**Country:** n/a  
**Application number:** 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:** Telia AB  
**Project:** DECT  
**Country:** n/a  
**Application number:** 9458446  
**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:** Telia AB  
**Project:** DECT  
**Country:** n/a  
**Application number:** 680676  
**Countries applicable:** EPC  
**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:** Telia AB  
**Project:** DECT  
**Title:** A Mobile Radio System  
**Country:** EPC  
**Application number:** 94902147.1

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**Company:** Telia AB  
**Project:** DECT  
**Title:** A Mobile Radio System  
**Country:** PCT  
**Application number:** PCT/SE95/00998

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**Company:** Telia AB  
**Project:** DECT  
**Title:** A Mobile Radio System  
**Country:** PCT  
**Application number:** PCT/SE95/00610

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**Company:** Telia AB  
**Project:** DECT  
**Title:** A Radio-based Communication System  
**Country:** PCT  
**Application number:** PCT/SE95/00259

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**Company:** Telia AB  
**Project:** DECT  
**Title:** Arrangement for Improving Functions in a Radiocommunications System  
**Country:** EPC  
**Application number:** 95850041.5

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**Company:** Telia AB  
**Project:** DECT  
**Title:** Arrangement in a DECT System  
**Country:** EPC  
**Application number:** 95850001.9

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**Company:** Telia AB  
**Project:** DECT  
**Title:** Device at Telecommunication Systems  
**Country:** PCT  
**Application number:** PCT/SE95/00845

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**Company:** Telia AB  
**Project:** DECT  
**Title:** Device at Telecommunication Systems  
**Country:** PCT  
**Application number:** PCT/SE95/00846



## DECT/GSM

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**Company:** Telia AB  
**Project:** DECT/GSM  
**Country:** n/a  
**Application number:** 725552  
**Countries applicable:** EPC  
**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:** Telia AB  
**Project:** DECT/GSM  
**Country:** n/a  
**Application number:** 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.

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**Company:** Telia AB  
**Project:** DECT/GSM  
**Country:** n/a  
**Application number:** 808549  
**Countries applicable:** EPC  
**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:** Telia AB  
**Project:** DECT/GSM  
**Country:** n/a  
**Application number:** 9625015  
**Countries applicable:** WO  
**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:** Telia AB  
**Project:** DECT/GSM  
**Country:** n/a  
**Application number:** 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:** Telia AB  
**Project:** DECT/GSM  
**Country:** n/a  
**Application number:** 9643382  
**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:** Telia AB  
**Project:** DECT/GSM  
**Title:** Arrangement for Handover in a Mobile Telecommunication Network  
**Country:** SE  
**Application number:** 9500408-1  
**Countries applicable:** SE

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**Company:** Telia AB  
**Project:** DECT/GSM  
**Title:** Method and Arrangement for Transfer between a Cordless Telecommunications System and a Cellular Mobile Telecommunications System  
**Country:** SE  
**Application number:** 9500407-3  
**Patent number:** 503 848  
**Countries applicable:** SE

DTM

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**Company:** Net Insight  
**Project:** DTM  
**Title:** Method and apparatus for distributing messages in a communication network  
**Country:** SE  
**Application number:** EP 1024677  
**Notes:** The Signatory and/or its affiliates hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with clause 6.1 of the ETSI IPR Policy, in respect of the Standard, to the extent that the IPRs remain essential.

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**Company:** Net Insight  
**Project:** DTM  
**Title:** Method and arrangement for dynamic signalling  
**Country:** SE  
**Application number:** WO 97/36401  
**Notes:** The Signatory and/or its affiliates hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with clause 6.1 of the ETSI IPR Policy, in respect of the Standard, to the extent that the IPRs remain essential.

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**Company:** Net Insight  
**Project:** DTM  
**Title:** Method, system and apparatuses for transferring information between nodes in a circuit switched time division multiplexed network  
**Country:** SE  
**Application number:** WO 99/16215  
**Notes:** The Signatory and/or its affiliates hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with clause 6.1 of the ETSI IPR Policy, in respect of the Standard, to the extent that the IPRs remain essential.

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**Company:** Net Insight  
**Project:** DTM  
**Title:** Methods and systems for determining network topology  
**Country:** SE  
**Application number:** WO 00/31925  
**Notes:** The Signatory and/or its affiliates hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are 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:** 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:** FR  
**Patent number:** 91 05280  
**Countries applicable:** FR  
**Standard(s):** 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:** 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:** FR  
**Patent number:** 92 460013.3  
**Countries applicable:** DE, GB  
**Standard(s):** 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:** 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:** HK  
**Patent number:** 98 106926.9  
**Countries applicable:** HK  
**Standard(s):** 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:** 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:** US  
**Patent number:** 5,446,747  
**Countries applicable:** US  
**Standard(s):** 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:** France Telecom  
**Project:** DVB  
**Title:** Procédé de codage itératif, module de décodage et décodeur correspondant  
**Country:** FR  
**Application number:** 96 107690.8  
**Countries applicable:** DE, GB  
**Standard(s):** 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:** 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:** AR  
**Application number:** P 00 0103733  
**Countries applicable:** AR  
**Standard(s):** 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:** 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:** FR  
**Application number:** 99 09631  
**Countries applicable:** FR  
**Standard(s):** 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:** 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:** FR  
**Application number:** PCT FR 00/02080  
**Countries applicable:** All designated countries  
**Standard(s):** 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:** 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:** US  
**Application number:** 09/616,782  
**Countries applicable:** US  
**Standard(s):** 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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## ERMES

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**Company:** Guy Le Nouveau  
**Project:** ERMES  
**Title:** Module additionnel d'émission radio pour récepteur de radiomessagerie permettant l'émission d'un accusé de réception  
**Country:** FR  
**Patent number:** 94 06043  
**Countries applicable:** FR  
**Notes:** 14 impasse des Verbeuses, 94800 Villejuif, France

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**Company:** Motorola  
**Project:** ERMES  
**Title:** Decoder for Transmitted Message Activation Codes  
**Country:** EPC  
**Patent number:** EP 0 090 851

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**Company:** Motorola  
**Project:** ERMES  
**Title:** Multiple Format Signalling Protocol for a Selective Call Receiver  
**Country:** EPC  
**Application number:** EP 92901376.1

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**Company:** Motorola  
**Project:** ERMES  
**Title:** Multiple Frequency Message System  
**Country:** EPC  
**Application number:** EP 89909668.9

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**Company:** Motorola  
**Project:** ERMES  
**Title:** Multiple Frequency Scanning  
**Country:** EPC  
**Application number:** EP 91904526.0

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**Company:** Motorola  
**Project:** ERMES  
**Title:** Nation-wide Paging with Local Modes of Operation  
**Country:** EPC  
**Application number:** EP 90915018.7

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**Company:** Motorola  
**Project:** ERMES  
**Title:** Power Conservation Method and Apparatus for a Portion of an Information Signal  
**Country:** EPC  
**Application number:** EP 89913131.2

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**Company:** Nexus Telocation Systems, Ltd.  
**Project:** ERMES  
**Title:** Differential Ranging For A Frequency-Hopped Remote Position Determination System  
**Country:** PCT  
**Patent number:** GB96/00270  
**Countries applicable:** Complete  
**Notes:** ERMES 2-Way Paging

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**Company:** Nexus Telocation Systems, Ltd.  
**Project:** ERMES  
**Title:** Low-Power Frequency-Hopped Spread Spectrum Acknowledgment Paging System  
**Country:** EPO  
**Application number:** 95900245.2  
**Countries applicable:** Application pending  
**Notes:** ERMES 2-Way Paging

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**Company:** Nexus Telocation Systems, Ltd.  
**Project:** ERMES  
**Title:** Low-Power Frequency-Hopped Spread Spectrum Acknowledgment Paging System  
**Country:** PCT  
**Patent number:** IB94/00370  
**Countries applicable:** Complete  
**Notes:** ERMES 2-Way Paging

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**Company:** Nexus Telocation Systems, Ltd.  
**Project:** ERMES  
**Title:** Multi-Path Resistant Frequency-Hopped Spread Spectrum Mobile Location System  
**Country:** PCT  
**Patent number:** IB94/00372  
**Countries applicable:** Complete  
**Notes:** ERMES 2-Way Paging

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**Company:** Nexus Telocation Systems, Ltd.  
**Project:** ERMES  
**Title:** Pager with Reverse Paging Facility  
**Country:** EPO  
**Application number:** 92311872.3  
**Countries applicable:** Application pending  
**Notes:** ERMES 2-Way Paging

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**Company:** Nexus Telocation Systems, Ltd.  
**Project:** ERMES  
**Title:** Remote Position Determination System  
**Country:** AT  
**Patent number:** 0583522  
**Countries applicable:** AT, FR, DE, IT, NL, GB  
**Notes:** ERMES 2-Way Paging

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**Company:** Nexus Telocation Systems, Ltd.  
**Project:** ERMES  
**Title:** Remote Position Determination System  
**Country:** DE  
**Patent number:** 0583522  
**Countries applicable:** AT, FR, DE, IT, NL, GB  
**Notes:** ERMES 2-Way Paging

---

**Company:** Nexus Telocation Systems, Ltd.  
**Project:** ERMES  
**Title:** Remote Position Determination System  
**Country:** EPO  
**Patent number:** 0583522  
**Countries applicable:** AT, FR, DE, IT, NL, GB  
**Notes:** ERMES 2-Way Paging

---

**Company:** Nexus Telocation Systems, Ltd.  
**Project:** ERMES  
**Title:** Remote Position Determination System  
**Country:** FR  
**Patent number:** 0583522  
**Countries applicable:** AT, FR, DE, IT, NL, GB  
**Notes:** ERMES 2-Way Paging

---

**Company:** Nexus Telocation Systems, Ltd.  
**Project:** ERMES  
**Title:** Remote Position Determination System  
**Country:** GB  
**Patent number:** 0583522  
**Countries applicable:** AT, FR, DE, IT, NL, GB  
**Notes:** ERMES 2-Way Paging

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**Company:** Nexus Telocation Systems, Ltd.  
**Project:** ERMES  
**Title:** Remote Position Determination System  
**Country:** IT  
**Patent number:** 0583522  
**Countries applicable:** AT, FR, DE, IT, NL, GB  
**Notes:** ERMES 2-Way Paging

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**Company:** Nexus Telocation Systems, Ltd.  
**Project:** ERMES  
**Title:** Remote Position Determination System  
**Country:** NL  
**Patent number:** 0583522  
**Countries applicable:** AT, FR, DE, IT, NL, GB  
**Notes:** ERMES 2-Way Paging

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**Company:** Nexus Telocation Systems, Ltd.  
**Project:** ERMES  
**Title:** Synchronization System for a Shared Channel Communication System  
**Country:** EPO  
**Application number:** 96901912.4  
**Countries applicable:** Application allowed  
**Notes:** ERMES 2-Way Paging

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**Company:** Nexus Telocation Systems, Ltd.  
**Project:** ERMES  
**Title:** Synchronization System For A Shared Channel Communication System  
**Country:** PCT  
**Patent number:** GB96/00268  
**Countries applicable:** Complete  
**Notes:** ERMES 2-Way Paging

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**Company:** Nexus Telocation Systems, Ltd.  
**Project:** ERMES  
**Title:** Two-Way Pager Having Prerecorded Uplink Messages and Pager to Pager Messaging  
**Country:** PCT  
**Patent number:** GB96/00257  
**Countries applicable:** Complete  
**Notes:** ERMES 2-Way Paging



## GPRS

<b>Company:</b>	De Te Mobil GmbH
<b>Project:</b>	GPRS
<b>Title:</b>	Verfahren zur paketweisen Datenübermittlung in einem Mobilfunknetz
<b>Country:</b>	DE
<b>Application number:</b>	DE 44 02 903
<b>Countries applicable:</b>	DE
<b>Company:</b>	De Te Mobil GmbH
<b>Project:</b>	GPRS
<b>Title:</b>	Verfahren zur paketweisen Datenübermittlung in einem Mobilfunknetz
<b>Country:</b>	PCT
<b>Application number:</b>	PCT/DE/00121
<b>Countries applicable:</b>	EP(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
<b>Company:</b>	Siemens
<b>Project:</b>	GPRS
<b>Title:</b>	Method for configuration of the radio interface in a mobile radio network
<b>Country:</b>	DE
<b>Application number:</b>	WO98/23104
<b>Countries applicable:</b>	CN, US, EP (CH, DE, ES, FI, FR, GB, IT, NL, SE)
<b>Notes:</b>	Siemens Aktiengesellschaft hereby declares that it owns patents or patent applications that are essential or potentially essential for manufacturing and selling implementations of the GPRS Standards. Licences under these patent rights will be made available to any applicant. Siemens Aktiengesellschaft also declares that it is willing to grant licenses to these patent rights throughout the world on a non-discriminatory basis under fair and reasonable terms and conditions. Such licences will provide that a similar grant under any licensee's patent rights within the scope of the licenses granted to the licensee is made available to Siemens Aktiengesellschaft and its subsidiaries on request.
<b>Company:</b>	Siemens
<b>Project:</b>	GPRS
<b>Title:</b>	Method for configuration of the radio interface in a mobile radio network
<b>Country:</b>	DE
<b>Application number:</b>	19652303.6
<b>Countries applicable:</b>	DE
<b>Notes:</b>	Siemens Aktiengesellschaft hereby declares that it owns patents or patent applications that are essential or potentially essential for manufacturing and selling implementations of the GPRS Standards. Licences under these patent rights will be made available to any applicant. Siemens Aktiengesellschaft also declares that it is willing to grant licenses to these patent rights throughout the world on a non-discriminatory basis under fair and reasonable terms and conditions. Such licences will provide that a similar grant under any licensee's patent rights within the scope of the licenses granted to the licensee is made available to Siemens Aktiengesellschaft and its subsidiaries on request.
<b>Company:</b>	Siemens
<b>Project:</b>	GPRS
<b>Title:</b>	Method for configuration of the radio interface in a mobile radio network
<b>Country:</b>	DE
<b>Application number:</b>	2159/CAL/97
<b>Countries applicable:</b>	IN
<b>Notes:</b>	Siemens Aktiengesellschaft hereby declares that it owns patents or patent applications that are essential or potentially essential for manufacturing and selling implementations of the GPRS Standards. Licences under these patent rights will be made available to any applicant. Siemens Aktiengesellschaft also declares that it is willing to grant licenses to these patent rights throughout the world on a non-discriminatory basis under fair and reasonable terms and conditions. Such licences will provide that a similar grant under any licensee's patent rights within the scope of the licenses granted to the licensee is made available to Siemens Aktiengesellschaft and its subsidiaries on request.

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**Company:** Siemens  
**Project:** GPRS  
**Title:** Method for configuration of the radio interface in a mobile radio network  
**Country:** DE  
**Patent number:** 97/10373  
**Countries applicable:** ZA  
**Notes:** Siemens Aktiengesellschaft hereby declares that it owns patents or patent applications that are essential or potentially essential for manufacturing and selling implementations of the GPRS Standards.  
Licences under these patent rights will be made available to any applicant. Siemens Aktiengesellschaft also declares that it is willing to grant licenses to these patent rights throughout the world on a non-discriminatory basis under fair and reasonable terms and conditions. Such licences will provide that a similar grant under any licensee's patent rights within the scope of the licenses granted to the licensee is made available to Siemens Aktiengesellschaft and its subsidiaries on request.

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**Company:** Siemens  
**Project:** GPRS  
**Title:** Method for configuration of the radio interface in a mobile radio network for data packet transmission  
**Country:** DE  
**Application number:** WO98/23105  
**Countries applicable:** AU, EA, US, EP (DE, ES, FR, GB, IT, SE)  
**Notes:** Siemens Aktiengesellschaft hereby declares that it owns patents or patent applications that are essential or potentially essential for manufacturing and selling implementations of the GPRS Standards.  
Licences under these patent rights will be made available to any applicant. Siemens Aktiengesellschaft also declares that it is willing to grant licenses to these patent rights throughout the world on a non-discriminatory basis under fair and reasonable terms and conditions. Such licences will provide that a similar grant under any licensee's patent rights within the scope of the licenses granted to the licensee is made available to Siemens Aktiengesellschaft and its subsidiaries on request.

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**Company:** Siemens  
**Project:** GPRS  
**Title:** Method for configuration of the radio interface in a mobile radio network for data packet transmission  
**Country:** DE  
**Application number:** P970105383  
**Countries applicable:** AR  
**Notes:** Siemens Aktiengesellschaft hereby declares that it owns patents or patent applications that are essential or potentially essential for manufacturing and selling implementations of the GPRS Standards.  
Licences under these patent rights will be made available to any applicant. Siemens Aktiengesellschaft also declares that it is willing to grant licenses to these patent rights throughout the world on a non-discriminatory basis under fair and reasonable terms and conditions. Such licences will provide that a similar grant under any licensee's patent rights within the scope of the licenses granted to the licensee is made available to Siemens Aktiengesellschaft and its subsidiaries on request.

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**Company:** Siemens  
**Project:** GPRS  
**Title:** Method for configuration of the radio interface in a mobile radio network for data packet transmission  
**Country:** DE  
**Application number:** 2158/CAL/97  
**Countries applicable:** IN  
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**Company:** Siemens  
**Project:** GPRS  
**Title:** Method for configuration of the radio interface in a mobile radio network for data packet transmission  
**Country:** DE  
**Patent number:** 104001  
**Countries applicable:** TW  
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**Company:** Siemens  
**Project:** GPRS  
**Title:** Method for configuration of the radio interface in a mobile radio network for data packet transmission  
**Country:** DE  
**Patent number:** 97/10371  
**Countries applicable:** ZA  
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**Company:** Siemens  
**Project:** GPRS  
**Title:** Method for configuration of the radio interface in a mobile radio network for packet data transmission  
**Country:** DE  
**Application number:** 2160/CAL/97  
**Countries applicable:** IN  
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**Company:** Siemens  
**Project:** GPRS  
**Title:** Method for configuration of the radio interface in a mobile radio network for packet data transmission  
**Country:** DE  
**Patent number:** 19647629  
**Countries applicable:** DE  
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**Company:** Siemens  
**Project:** GPRS  
**Title:** Method for configuration of the radio interface in a mobile radio network for packet data transmission  
**Country:** DE  
**Application number:** WO98/23106  
**Countries applicable:** BR, CA, CN, IL, SG, UA, US, EP (CH, DE, ES, FI, FR, GB, IT, NL, SE)  
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**Company:** Siemens  
**Project:** GPRS  
**Title:** Method for configuration of the radio interface in a mobile radio network for packet data transmission  
**Country:** DE  
**Patent number:** 97/10374  
**Countries applicable:** ZA  
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**Company:** Siemens  
**Project:** GPRS  
**Title:** Method for data transmission in a general packet radio system  
**Country:** DE  
**Application number:** 0771125  
**Countries applicable:** AT, DE, ES, FR, GB, IT  
**Notes:** Siemens Aktiengesellschaft hereby declares that it owns patents or patent applications that are essential or potentially essential for manufacturing and selling implementations of the GPRS Standards.  
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**Company:** Siemens  
**Project:** GPRS  
**Title:** Method for data transmission in a general packet radio system  
**Country:** DE  
**Application number:** 19539374.0  
**Countries applicable:** DE  
**Notes:** Siemens Aktiengesellschaft hereby declares that it owns patents or patent applications that are essential or potentially essential for manufacturing and selling implementations of the GPRS Standards.  
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**Company:** Siemens  
**Project:** GPRS  
**Title:** Method for data transmission in a general packet radio system  
**Country:** DE  
**Patent number:** 5943327  
**Countries applicable:** US  
**Notes:** Siemens Aktiengesellschaft hereby declares that it owns patents or patent applications that are essential or potentially essential for manufacturing and selling implementations of the GPRS Standards.  
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**Company:** Siemens  
**Project:** GPRS  
**Title:** Method for forming a data package channel  
**Country:** DE  
**Patent number:** 98/1425  
**Countries applicable:** ZA  
**Notes:** Siemens Aktiengesellschaft hereby declares that it owns patents or patent applications that are essential or potentially essential for manufacturing and selling implementations of the GPRS Standards.  
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**Company:** Siemens  
**Project:** GPRS  
**Title:** Method for forming a data package channel  
**Country:** DE  
**Patent number:** 19707261  
**Countries applicable:** DE  
**Notes:** Siemens Aktiengesellschaft hereby declares that it owns patents or patent applications that are essential or potentially essential for manufacturing and selling implementations of the GPRS Standards.  
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**Company:** Siemens  
**Project:** GPRS  
**Title:** Method for forming a data package channel  
**Country:** DE  
**Application number:** WO98/38818  
**Countries applicable:** US, EP (DE, FR, GB, IT)  
**Notes:** Siemens Aktiengesellschaft hereby declares that it owns patents or patent applications that are essential or potentially essential for manufacturing and selling implementations of the GPRS Standards.  
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**Company:** Siemens  
**Project:** GPRS  
**Title:** Method for subscriber authentication in a mobile radio network  
**Country:** DE  
**Application number:** 19812215  
**Countries applicable:** DE  
**Notes:** Siemens Aktiengesellschaft hereby declares that it owns patents or patent applications that are essential or potentially essential for manufacturing and selling implementations of the GPRS Standards.  
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**Company:** Siemens  
**Project:** GPRS  
**Title:** Method for subscriber authentication in a mobile radio network  
**Country:** DE  
**Application number:** WO99/48318  
**Countries applicable:** JP, KR, US, EP (DE, ES, FR, GB)  
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**Company:** Siemens  
**Project:** GPRS  
**Title:** Method for synchronisation of data transmission at the transmitter  
**Country:** DE  
**Application number:** 19725569.8  
**Countries applicable:** DE  
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**Company:** Siemens  
**Project:** GPRS  
**Title:** Method for synchronisation of data transmission at the transmitter  
**Country:** DE  
**Application number:** WO98/58504  
**Countries applicable:** CN, JP, KR, US, EP (BE, DE, FR, GB, IT, PT)  
**Notes:** Siemens Aktiengesellschaft hereby declares that it owns patents or patent applications that are essential or potentially essential for manufacturing and selling implementations of the GPRS Standards.  
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**Company:** Siemens  
**Project:** GPRS  
**Title:** Method for transmission of data in a mobile radio network  
**Country:** DE  
**Patent number:** 19600197  
**Countries applicable:** DE  
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**Company:** Siemens  
**Project:** GPRS  
**Title:** Method for transmission of data in a mobile radio network  
**Country:** DE  
**Application number:** WO97/25827  
**Countries applicable:** CN, RU, US, EP (DE, ES, FR, GB, IT)  
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**Company:** Siemens  
**Project:** GPRS  
**Title:** Method for transmission of data packets in a mobile radio network  
**Country:** DE  
**Application number:** WO97/02712  
**Countries applicable:** CN, US, EP (ES, FR, GB, IT)  
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**Company:** Siemens  
**Project:** GPRS  
**Title:** Method for transmission of data packets in a mobile radio network  
**Country:** DE  
**Application number:** 1555/CAL/96  
**Countries applicable:** IN  
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**Company:** Siemens  
**Project:** GPRS  
**Title:** Method for transmission of data packets in a mobile radio network  
**Country:** DE  
**Patent number:** 19534156  
**Countries applicable:** DE  
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**Company:** Siemens  
**Project:** GPRS  
**Title:** Method for transmission of data packets in a mobile radio network  
**Country:** DE  
**Patent number:** 19524659  
**Countries applicable:** DE  
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**Company:** Siemens  
**Project:** GPRS  
**Title:** Method for transmission of data packets in a mobile radio network  
**Country:** DE  
**Application number:** 85111034  
**Countries applicable:** TW  
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**Company:** Siemens  
**Project:** GPRS  
**Title:** Method for transmission of data packets in a mobile radio network  
**Country:** DE  
**Application number:** WO97/10685  
**Countries applicable:** US, EP (FR, GB, IT, NL)  
**Notes:** Siemens Aktiengesellschaft hereby declares that it owns patents or patent applications that are essential or potentially essential for manufacturing and selling implementations of the GPRS Standards.  
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**Company:** Siemens  
**Project:** GPRS  
**Title:** Method for transmission of information elements of a non real time service  
**Country:** DE  
**Patent number:** 19854455  
**Countries applicable:** DE  
**Notes:** Siemens Aktiengesellschaft hereby declares that it owns patents or patent applications that are essential or potentially essential for manufacturing and selling implementations of the GPRS Standards.  
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**Company:** Siemens  
**Project:** GPRS  
**Title:** Method for transmission of information elements of a non real time service  
**Country:** DE  
**Application number:** WO00/31913  
**Countries applicable:** CN, KR, US, EP (DE, FR, GB, SE)  
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**Company:** Siemens  
**Project:** GPRS  
**Title:** Method for transmission of information in a mobile radio network  
**Country:** DE  
**Application number:** P4407530.8  
**Countries applicable:** DE  
**Notes:** Siemens Aktiengesellschaft hereby declares that it owns patents or patent applications that are essential or potentially essential for manufacturing and selling implementations of the GPRS Standards.  
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**Company:** Siemens  
**Project:** GPRS  
**Title:** Method for transmission of information in a mobile radio network  
**Country:** DE  
**Application number:** 951051  
**Countries applicable:** FI  
**Notes:** Siemens Aktiengesellschaft hereby declares that it owns patents or patent applications that are essential or potentially essential for manufacturing and selling implementations of the GPRS Standards.  
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**Company:** Siemens  
**Project:** GPRS  
**Title:** Method for transmission of information in a mobile radio network  
**Country:** DE  
**Application number:** 0671824  
**Countries applicable:** FR, GB, SE  
**Notes:** Siemens Aktiengesellschaft hereby declares that it owns patents or patent applications that are essential or potentially essential for manufacturing and selling implementations of the GPRS Standards.  
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**Company:** Siemens  
**Project:** GPRS  
**Title:** Method for transmission of information in a mobile radio network  
**Country:** DE  
**Patent number:** 5648967  
**Countries applicable:** US  
**Notes:** Siemens Aktiengesellschaft hereby declares that it owns patents or patent applications that are essential or potentially essential for manufacturing and selling implementations of the GPRS Standards.  
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**Company:** Siemens  
**Project:** GPRS  
**Title:** Method for transmission of packet data in a mobile radio network  
**Country:** DE  
**Patent number:** 19549009  
**Countries applicable:** DE  
**Notes:** Siemens Aktiengesellschaft hereby declares that it owns patents or patent applications that are essential or potentially essential for manufacturing and selling implementations of the GPRS Standards.  
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**Company:** Siemens  
**Project:** GPRS  
**Title:** Method for transmission of packet data in a mobile radio network  
**Country:** DE  
**Application number:** WO97/24891  
**Countries applicable:** CN, US, EP (AT, CH, DE, ES, GB)  
**Notes:** Siemens Aktiengesellschaft hereby declares that it owns patents or patent applications that are essential or potentially essential for manufacturing and selling implementations of the GPRS Standards.  
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## GSM

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**Company:** Alcatel  
**Project:** GSM  
**Title:** A method of transmitting timing advance data to a mobile moving in cells of an asynchronous-BTS GSM network  
**Country:** CN  
**Application number:** CN 93-119206  
**Countries applicable:** CN  
**Standard(s):** GSM 04.08 and 05.10

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**Company:** Alcatel  
**Project:** GSM  
**Title:** A method of transmitting timing advance data to a mobile moving in cells of an asynchronous-BTS GSM network  
**Country:** FR  
**Patent number:** FR 2695776  
**Countries applicable:** FR  
**Standard(s):** GSM 04.08 and 05.10

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**Company:** Alcatel  
**Project:** GSM  
**Title:** A method of transmitting timing advance data to a mobile moving in cells of an asynchronous-BTS GSM network  
**Country:** IN  
**Application number:** 1052/DEL/93  
**Countries applicable:** IN  
**Standard(s):** GSM 04.08 and 05.10

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**Company:** Alcatel  
**Project:** GSM  
**Title:** A method of transmitting timing advance data to a mobile moving in cells of an asynchronous-BTS GSM network  
**Country:** NO  
**Patent number:** NO 9303254  
**Countries applicable:** NO  
**Standard(s):** GSM 04.08 and 05.10

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**Company:** Alcatel  
**Project:** GSM  
**Title:** A method of transmitting timing advance data to a mobile moving in cells of an asynchronous-BTS GSM network  
**Country:** NZ  
**Patent number:** NZ 248564  
**Countries applicable:** NZ  
**Standard(s):** GSM 04.08 and 05.10

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**Company:** Alcatel  
**Project:** GSM  
**Title:** A method of transmitting timing advance data to a mobile moving in cells of an asynchronous-BTS GSM network  
**Country:** SG  
**Patent number:** SP 9605241-0  
**Countries applicable:** SP  
**Standard(s):** GSM 04.08 and 05.10

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**Company:** Alcatel  
**Project:** GSM  
**Title:** A transmission burst organized for discontinuous transmission  
**Country:** AU  
**Patent number:** AU 9640950  
**Countries applicable:** AU  
**Standard(s):** GSM 05.03

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**Company:** Alcatel  
**Project:** GSM  
**Title:** A transmission burst organized for discontinuous transmission  
**Country:** EPC  
**Patent number:** EP 724342  
**Countries applicable:** AT, BE, DK, FR, DE, IT, NL, NO, ES, SE, CH, GB  
**Standard(s):** GSM 05.03

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**Company:** Alcatel  
**Project:** GSM  
**Title:** A transmission burst organized for discontinuous transmission  
**Country:** FI  
**Patent number:** FI 9600300  
**Countries applicable:** FI  
**Standard(s):** GSM 05.03

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**Company:** Alcatel  
**Project:** GSM  
**Title:** A transmission burst organized for discontinuous transmission  
**Country:** FR  
**Patent number:** FR 2729806  
**Countries applicable:** FR  
**Standard(s):** GSM 05.03

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**Company:** Alcatel  
**Project:** GSM  
**Title:** A transmission burst organized for discontinuous transmission  
**Country:** NZ  
**Patent number:** NZ 280835  
**Countries applicable:** NZ  
**Standard(s):** GSM 05.03

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**Company:** Alcatel  
**Project:** GSM  
**Title:** AMR 12b, Document Tdoc SMG11 134/98R2,  
**Country:** n/a  
**Standard(s):** 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:** Alcatel  
**Project:** GSM  
**Title:** Communication system for cellular radio telephone network  
**Country:** CA  
**Patent number:** CA 2046579  
**Countries applicable:** CA  
**Standard(s):** GSM 01.78, 02.78, 03.78 and 09.78

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**Company:** Alcatel  
**Project:** GSM  
**Title:** Communication system for cellular radio telephone network  
**Country:** EPC  
**Patent number:** EP 466078  
**Countries applicable:** AT, BE, FR, DE, IT, NL, ES, SE, CH, GB  
**Standard(s):** GSM 01.78, 02.78, 03.78 and 09.78

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**Company:** Alcatel  
**Project:** GSM  
**Title:** Communication system for cellular radio telephone network  
**Country:** FR  
**Application number:** 90-12005  
**Patent number:** FR 2667476  
**Countries applicable:** FR  
**Standard(s):** GSM 01.78, 02.78, 03.78 and 09.78

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**Company:** Alcatel  
**Project:** GSM  
**Title:** Communication system for cellular radio telephone network  
**Country:** JP  
**Patent number:** JP 4255133  
**Countries applicable:** JP  
**Standard(s):** GSM 01.78, 02.78, 03.78 and 09.78

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**Company:** Alcatel  
**Project:** GSM  
**Title:** Communication system for cellular radio telephone network  
**Country:** KR  
**Application number:** 11673/1991  
**Countries applicable:** KR  
**Standard(s):** GSM 01.78, 02.78, 03.78 and 09.78

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**Company:** Alcatel  
**Project:** GSM  
**Title:** Communication system for cellular radio telephone network  
**Country:** TW  
**Patent number:** 57316  
**Countries applicable:** TW  
**Standard(s):** GSM 01.78, 02.78, 03.78 and 09.78

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**Company:** Alcatel  
**Project:** GSM  
**Title:** Communication system for cellular radio telephone network  
**Country:** US  
**Patent number:** US 5533114  
**Countries applicable:** US  
**Standard(s):** GSM 01.78, 02.78, 03.78 and 09.78

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**Company:** Alcatel  
**Project:** GSM  
**Title:** Communication transfer in cellular radio telephone network  
**Country:** AU  
**Patent number:** AU 639516  
**Countries applicable:** AU  
**Standard(s):** GSM 03.09

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**Company:** Alcatel  
**Project:** GSM  
**Title:** Communication transfer in cellular radio telephone network  
**Country:** CA  
**Patent number:** CA 2034411  
**Countries applicable:** CA  
**Standard(s):** GSM 03.09

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**Company:** Alcatel  
**Project:** GSM  
**Title:** Communication transfer in cellular radio telephone network  
**Country:** EPC  
**Patent number:** EP 438099  
**Countries applicable:** AT, BE, FR, DE, IT, NL, ES, SE, CH, GB  
**Standard(s):** GSM 03.09

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**Company:** Alcatel  
**Project:** GSM  
**Title:** Communication transfer in cellular radio telephone network  
**Country:** JP  
**Patent number:** JP 60 86358  
**Countries applicable:** JP  
**Standard(s):** GSM 03.09

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**Company:** Alcatel  
**Project:** GSM  
**Title:** Communication transfer in cellular radio telephone network  
**Country:** NZ  
**Patent number:** NZ 236814  
**Countries applicable:** NZ  
**Standard(s):** GSM 03.09

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**Company:** Alcatel  
**Project:** GSM  
**Title:** Communication transfer in cellular radio telephone network  
**Country:** US  
**Patent number:** US 5289525  
**Countries applicable:** US  
**Standard(s):** GSM 03.09

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**Company:** Alcatel  
**Project:** GSM  
**Title:** Computer-controlled radiotelephone  
**Country:** EPC  
**Patent number:** EP 297616  
**Countries applicable:** AT, BE, FR, DE, GR, IT, NL, ES, SE, GB  
**Standard(s):** GSM 03.26

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**Company:** Alcatel  
**Project:** GSM  
**Title:** Data frame transmission system for transmitter and receiver  
**Country:** EPC  
**Patent number:** EP 642242  
**Countries applicable:** AT, BE, DK, FR, DE, IT, NL, ES, SE, CH, GB  
**Standard(s):** GSM 08.61

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**Company:** Alcatel  
**Project:** GSM  
**Title:** Data frame transmission system for transmitter and receiver  
**Country:** FI  
**Patent number:** FI 9404071  
**Countries applicable:** FI  
**Standard(s):** GSM 08.61

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**Company:** Alcatel  
**Project:** GSM  
**Title:** Data frame transmission system for transmitter and receiver  
**Country:** FR  
**Patent number:** FR 2709901  
**Countries applicable:** FR  
**Standard(s):** GSM 08.61

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**Company:** Alcatel  
**Project:** GSM  
**Title:** Data frame transmission system for transmitter and receiver  
**Country:** US  
**Application number:** SerNo 301587  
**Countries applicable:** US  
**Standard(s):** GSM 08.61

---

**Company:** Alcatel  
**Project:** GSM  
**Title:** Energy saving method in a terminal of a mobile radiocommunication network  
**Country:** AU  
**Patent number:** AU 9538092  
**Countries applicable:** AU  
**Standard(s):** GSM 03.41 and 04.12

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**Company:** Alcatel  
**Project:** GSM  
**Title:** Energy saving method in a terminal of a mobile radiocommunication network  
**Country:** CA  
**Patent number:** CA 2179662  
**Countries applicable:** CA  
**Standard(s):** GSM 03.41 and 04.12

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**Company:** Alcatel  
**Project:** GSM  
**Title:** Energy saving method in a terminal of a mobile radiocommunication network  
**Country:** FI  
**Patent number:** FI 9602541  
**Countries applicable:** FI  
**Standard(s):** GSM 03.41 and 04.12

---

**Company:** Alcatel  
**Project:** GSM  
**Title:** Energy saving method in a terminal of a mobile radiocommunication network  
**Country:** FR  
**Patent number:** FR 2726147  
**Countries applicable:** FR  
**Standard(s):** GSM 03.41 and 04.12

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**Company:** Alcatel  
**Project:** GSM  
**Title:** Energy saving method in a terminal of a mobile radiocommunication network  
**Country:** JP  
**Application number:** 513693/96  
**Countries applicable:** JP  
**Standard(s):** GSM 03.41 and 04.12

---

**Company:** Alcatel  
**Project:** GSM  
**Title:** Energy saving method in a terminal of a mobile radiocommunication network  
**Country:** PCT  
**Application number:** WO 96131134  
**Countries applicable:** AT, BE, FR, DE, IT, NL, ES, SE, GB  
**Standard(s):** GSM 03.41 and 04.12

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**Company:** Alcatel  
**Project:** GSM  
**Title:** Energy saving method in a terminal of a mobile radiocommunication network  
**Country:** US  
**Application number:** SerNo 666428  
**Countries applicable:** US  
**Standard(s):** GSM 03.41 and 04.12

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**Company:** Alcatel  
**Project:** GSM  
**Title:** Frame at the TRAU-BTS interface in a cellular radiocommunication network  
**Country:** AU  
**Patent number:** AU 9523340  
**Countries applicable:** AU  
**Standard(s):** GSM 08.61



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**Company:** Alcatel  
**Project:** GSM  
**Title:** Frame at the TRAU-BTS interface in a cellular radiocommunication network  
**Country:** CN  
**Application number:** 95-115005  
**Countries applicable:** CN  
**Standard(s):** GSM 08.61

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**Company:** Alcatel  
**Project:** GSM  
**Title:** Frame at the TRAU-BTS interface in a cellular radiocommunication network  
**Country:** EPC  
**Patent number:** EP 692919  
**Countries applicable:** AT, BE, DK, FR, DE, IT, NL, ES, SE, CH, GB  
**Standard(s):** GSM 08.61

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**Company:** Alcatel  
**Project:** GSM  
**Title:** Frame at the TRAU-BTS interface in a cellular radiocommunication network  
**Country:** FI  
**Patent number:** FI 9503345  
**Countries applicable:** FI  
**Standard(s):** GSM 08.61

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**Company:** Alcatel  
**Project:** GSM  
**Title:** Frame at the TRAU-BTS interface in a cellular radiocommunication network  
**Country:** FR  
**Patent number:** FR 2722353  
**Countries applicable:** FR  
**Standard(s):** GSM 08.61

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**Company:** Alcatel  
**Project:** GSM  
**Title:** Frame at the TRAU-BTS interface in a cellular radiocommunication network  
**Country:** IN  
**Application number:** 271/DEL/95  
**Countries applicable:** IN  
**Standard(s):** GSM 08.61

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**Company:** Alcatel  
**Project:** GSM  
**Title:** Frame at the TRAU-BTS interface in a cellular radiocommunication network  
**Country:** NZ  
**Patent number:** NZ 272491  
**Countries applicable:** NZ  
**Standard(s):** GSM 08.61

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**Company:** Alcatel  
**Project:** GSM  
**Title:** Frame at the TRAU-BTS interface in a cellular radiocommunication network  
**Country:** US  
**Application number:** SerNo 496749  
**Countries applicable:** US  
**Standard(s):** GSM 08.61

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**Company:** Alcatel  
**Project:** GSM  
**Title:** Hand-over technique for transferring calls between adjacent cells of cellular phone system  
**Country:** AU  
**Patent number:** AU 9467885  
**Countries applicable:** AU  
**Standard(s):** GSM 04.08 and 05.10

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**Company:** Alcatel  
**Project:** GSM  
**Title:** Hand-over technique for transferring calls between adjacent cells of cellular phone system  
**Country:** CA  
**Application number:** 2162707  
**Countries applicable:** CA  
**Standard(s):** GSM 04.08 and 05.10

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**Company:** Alcatel  
**Project:** GSM  
**Title:** Hand-over technique for transferring calls between adjacent cells of cellular phone system  
**Country:** CN  
**Application number:** 94-192099  
**Countries applicable:** CN  
**Standard(s):** GSM 04.08 and 05.10

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**Company:** Alcatel  
**Project:** GSM  
**Title:** Hand-over technique for transferring calls between adjacent cells of cellular phone system  
**Country:** EPC  
**Patent number:** EP 698318  
**Countries applicable:** AT, BE, DK, FR, DE, IT, NL, ES, SE, CH, GB  
**Standard(s):** GSM 04.08 and 05.10

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**Company:** Alcatel  
**Project:** GSM  
**Title:** Hand-over technique for transferring calls between adjacent cells of cellular phone system  
**Country:** FI  
**Patent number:** FI 9505437  
**Countries applicable:** FI  
**Standard(s):** GSM 04.08 and 05.10

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**Company:** Alcatel  
**Project:** GSM  
**Title:** Hand-over technique for transferring calls between adjacent cells of cellular phone system  
**Country:** FR  
**Patent number:** FR 2705514  
**Countries applicable:** FR  
**Standard(s):** GSM 04.08 and 05.10

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**Company:** Alcatel  
**Project:** GSM  
**Title:** Hand-over technique for transferring calls between adjacent cells of cellular phone system  
**Country:** JP  
**Application number:** 525067/94  
**Countries applicable:** JP  
**Standard(s):** GSM 04.08 and 05.10

---

**Company:** Alcatel  
**Project:** GSM  
**Title:** Hand-over technique for transferring calls between adjacent cells of cellular phone system  
**Country:** US  
**Application number:** SerNo 545869  
**Countries applicable:** US  
**Standard(s):** GSM 04.08 and 05.10

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**Company:** Alcatel  
**Project:** GSM  
**Title:** Method of transmitting timing advance data to a mobile moving in cells of an asynchronous-BTS GSM network  
**Country:** EPC  
**Patent number:** EP 589753  
**Countries applicable:** AT, BE, DK, FR, DE, GR, IE, IT, NL, PT, ES, SE, CH, GB  
**Standard(s):** GSM 04.08 and 05.10

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**Company:** Alcatel  
**Project:** GSM  
**Title:** Method of transmitting timing advance data to a mobile moving in cells of an asynchronous-BTS GSM network  
**Country:** FI  
**Patent number:** FI 9304006  
**Countries applicable:** FI  
**Standard(s):** GSM 04.08 and 05.10

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**Company:** Alcatel  
**Project:** GSM  
**Title:** Mobile Radio Network  
**Country:** DE  
**Application number:** P 36 38 735  
**Patent number:** DE 3638735  
**Countries applicable:** DE  
**Standard(s):** GSM 02.16, 03.03 and 04.08  
**Notes:** jointly owned with Siemens.

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**Company:** Alcatel  
**Project:** GSM  
**Title:** Mobile Radio Network Adaptation Center  
**Country:** n/a  
**Application number:** 743634  
**Countries applicable:** US  
**Standard(s):** 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:** Alcatel  
**Project:** GSM  
**Title:** Mobile Radio Network Adaptation Center  
**Country:** n/a  
**Application number:** 2 189 791  
**Countries applicable:** CN  
**Standard(s):** 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:** Alcatel  
**Project:** GSM  
**Title:** Mobile Radio Network Adaptation Center  
**Country:** n/a  
**Application number:** EP 96 440 095  
**Patent number:** EP 773 693  
**Countries applicable:** FR, DE, IT, ES, GB  
**Standard(s):** 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:** Alcatel  
**Project:** GSM  
**Title:** Mobile Radio System with a Repeater  
**Country:** AU  
**Patent number:** AU 77486  
**Countries applicable:** AU  
**Standard(s):** GSM 05.05

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**Company:** Alcatel  
**Project:** GSM  
**Title:** Mobile Radio System with a Repeater  
**Country:** EPC  
**Patent number:** EP 651524  
**Countries applicable:** FR, DE, IT, SE, GB  
**Standard(s):** GSM 05.05

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**Company:** Alcatel  
**Project:** GSM  
**Title:** Mobile Radio System with a Repeater  
**Country:** FI  
**Patent number:** FI 945088  
**Countries applicable:** FI  
**Standard(s):** GSM 05.05

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**Company:** Alcatel  
**Project:** GSM  
**Title:** Mobile Radio System with a Repeater  
**Country:** NZ  
**Patent number:** NZ 264804  
**Countries applicable:** NZ  
**Standard(s):** GSM 05.05

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**Company:** Alcatel  
**Project:** GSM  
**Title:** Mobile Radio System with a Repeater  
**Country:** US  
**Application number:** SerNo 331341  
**Countries applicable:** US  
**Standard(s):** GSM 05.05

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**Company:** Alcatel  
**Project:** GSM  
**Title:** Software downloading for a telecommunications terminal  
**Country:** AU  
**Patent number:** AU 643526  
**Countries applicable:** AU  
**Standard(s):** GSM 11.14

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**Company:** Alcatel  
**Project:** GSM  
**Title:** TRAN/BTS Error Procedure  
**Country:** JP  
**Application number:** 518716/94  
**Countries applicable:** JP  
**Standard(s):** GSM 08.60 and 08.61

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**Company:** Alcatel  
**Project:** GSM  
**Title:** TRAU/BTS Error Procedure  
**Country:** AU  
**Patent number:** AU 9461115  
**Countries applicable:** US  
**Standard(s):** GSM 08.60 and 08.61

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**Company:** Alcatel  
**Project:** GSM  
**Title:** TRAU/BTS Error Procedure  
**Country:** CN  
**Application number:** 94-191289  
**Countries applicable:** CN  
**Standard(s):** GSM 08.60 and 08.61

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**Company:** Alcatel  
**Project:** GSM  
**Title:** TRAU/BTS Error Procedure  
**Country:** EPC  
**Patent number:** EP 686325  
**Countries applicable:** AT, BE, DK, DE, IT, NL, ES, SE, CH, GB  
**Standard(s):** GSM 08.60 and 08.61

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**Company:** Alcatel  
**Project:** GSM  
**Title:** TRAU/BTS Error Procedure  
**Country:** FI  
**Patent number:** FI 9503969  
**Countries applicable:** FI  
**Standard(s):** GSM 08.60 and 08.61

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**Company:** Alcatel  
**Project:** GSM  
**Title:** TRAU/BTS Error Procedure  
**Country:** FR  
**Patent number:** FR 2702111  
**Countries applicable:** FR  
**Standard(s):** GSM 08.60 and 08.61

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**Company:** Alcatel  
**Project:** GSM  
**Title:** TRAU/BTS Error Procedure  
**Country:** NO  
**Patent number:** NO 9503356  
**Countries applicable:** NO  
**Standard(s):** GSM 08.60 and 08.61

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**Company:** Alcatel  
**Project:** GSM  
**Title:** TRAU/BTS Error Procedure  
**Country:** US  
**Application number:** SerNo 495615  
**Countries applicable:** US  
**Standard(s):** GSM 08.60 and 08.61

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**Company:** AT&T  
**Project:** GSM  
**Title:** Arrangement for Detecting Fraudulently Identified Mobile Stations in a Cellular Mobile Telecommunications Switching System  
**Country:** US  
**Patent number:** 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:** AT&T  
**Project:** GSM  
**Title:** Arrangement for Obtaining Authentication Key Parameters in a Cellular Mobile Telecommunications Switching Network  
**Country:** US  
**Patent number:** 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:** AT&T  
**Project:** GSM  
**Title:** Digital Speech Coder  
**Country:** CA  
**Patent number:** 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:** AT&T  
**Project:** GSM  
**Title:** Digital Speech Coder  
**Country:** CA  
**Patent number:** 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:** AT&T  
**Project:** GSM  
**Title:** Digital Speech Coder  
**Country:** SE  
**Patent number:** 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:** AT&T  
**Project:** GSM  
**Title:** Digital Speech Coder  
**Country:** US  
**Patent number:** 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:** AT&T  
**Project:** GSM  
**Title:** Digital Speech Encoder  
**Country:** DE  
**Patent number:** 3 244 476  
**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:** AT&T  
**Project:** GSM  
**Title:** Digital Speech Encoder  
**Country:** FR  
**Patent number:** 8 219 772  
**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:** AT&T  
**Project:** GSM  
**Title:** Digital Speech Encoder  
**Country:** GB  
**Patent number:** 2 110 906  
**Countries applicable:** UK  
**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:** AT&T  
**Project:** GSM  
**Title:** Digital Speech Encoder  
**Country:** JP  
**Patent number:** 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:** AT&T  
**Project:** GSM  
**Title:** Digital Speech Encoder  
**Country:** SE  
**Patent number:** 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:** AT&T  
**Project:** GSM  
**Title:** Multipulse LPC Speech Processing Arrangemen  
**Country:** CA  
**Patent number:** 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:** AT&T  
**Project:** GSM  
**Title:** Multipulse LPC Speech Processing Arrangement  
**Country:** BE  
**Patent number:** 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:** AT&T  
**Project:** GSM  
**Title:** Multipulse LPC Speech Processing Arrangement  
**Country:** DE  
**Patent number:** 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:** AT&T  
**Project:** GSM  
**Title:** Multipulse LPC Speech Processing Arrangement  
**Country:** FR  
**Patent number:** 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:** AT&T  
**Project:** GSM  
**Title:** Multipulse LPC Speech Processing Arrangement  
**Country:** NL  
**Patent number:** 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:** AT&T  
**Project:** GSM  
**Title:** Multipulse LPC Speech Processing Arrangement  
**Country:** SE  
**Patent number:** 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:** AT&T  
**Project:** GSM  
**Title:** Multipulse LPC Speech Processing Arrangement  
**Country:** US  
**Patent number:** 4 701 954  
**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:** AT&T  
**Project:** GSM  
**Title:** Paging Arrangements in a Cellular Mobile Switching System  
**Country:** US  
**Patent number:** 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:** AT&T  
**Project:** GSM  
**Title:** Signalling Arrangements in a Cellular Mobile Telecomms Switching System  
**Country:** US  
**Patent number:** 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:** BT  
**Project:** GSM  
**Country:** US  
**Application number:** 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:** BT  
**Project:** GSM  
**Title:** Cellular Radio Systems  
**Country:** AU  
**Patent number:** 678247  
**Countries applicable:** AU  
**Standard(s):** GSM 02.67, 02.68, 02.69, 03.67, 03.68, 03.69

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**Company:** BT  
**Project:** GSM  
**Title:** Cellular Radio Systems  
**Country:** CA  
**Application number:** 2162730  
**Countries applicable:** CA  
**Standard(s):** GSM 02.67, 02.68, 02.69, 03.67, 03.68, 03.69

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**Company:** BT  
**Project:** GSM  
**Title:** Cellular Radio Systems  
**Country:** CN  
**Application number:** 94192537.4  
**Countries applicable:** CN  
**Standard(s):** GSM 02.67, 02.68, 02.69, 03.67, 03.68, 03.69

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**Company:** BT  
**Project:** GSM  
**Title:** Cellular Radio Systems  
**Country:** EPO  
**Application number:** 94915668.1  
**Countries applicable:** AT, BE, DK, FR, DE, IE, IT, NL, PT, ES, SE, CH  
**Standard(s):** GSM 02.67, 02.68, 02.69, 03.67, 03.68, 03.69

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**Company:** BT  
**Project:** GSM  
**Title:** Cellular Radio Systems  
**Country:** FI  
**Application number:** 955579  
**Countries applicable:** FI  
**Standard(s):** GSM 02.67, 02.68, 02.69, 03.67, 03.68, 03.69

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**Company:** BT  
**Project:** GSM  
**Title:** Cellular Radio Systems  
**Country:** HU  
**Application number:** P9503283  
**Countries applicable:** HU  
**Standard(s):** GSM 02.67, 02.68, 02.69, 03.67, 03.68, 03.69

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**Company:** BT  
**Project:** GSM  
**Title:** Cellular Radio Systems  
**Country:** IN  
**Application number:** 422/MAS/94  
**Countries applicable:** IN  
**Standard(s):** GSM 02.67, 02.68, 02.69, 03.67, 03.68, 03.69

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**Company:** BT  
**Project:** GSM  
**Title:** Cellular Radio Systems  
**Country:** JP  
**Application number:** 95-500381  
**Countries applicable:** JP  
**Standard(s):** GSM 02.67, 02.68, 02.69, 03.67, 03.68, 03.69

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**Company:** BT  
**Project:** GSM  
**Title:** Cellular Radio Systems  
**Country:** KR  
**Application number:** 705246/95  
**Countries applicable:** KR  
**Standard(s):** GSM 02.67, 02.68, 02.69, 03.67, 03.68, 03.69

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**Company:** BT  
**Project:** GSM  
**Title:** Cellular Radio Systems  
**Country:** NO  
**Application number:** 954682  
**Countries applicable:** NO  
**Standard(s):** GSM 02.67, 02.68, 02.69, 03.67, 03.68, 03.69

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**Company:** BT  
**Project:** GSM  
**Title:** Cellular Radio Systems  
**Country:** NZ  
**Patent number:** 266204  
**Countries applicable:** NZ  
**Standard(s):** GSM 02.67, 02.68, 02.69, 03.67, 03.68, 03.69

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**Company:** BT  
**Project:** GSM  
**Title:** Cellular Radio Systems  
**Country:** PL  
**Patent number:** 174356  
**Countries applicable:** PL  
**Standard(s):** GSM 02.67, 02.68, 02.69, 03.67, 03.68, 03.69

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**Company:** BT  
**Project:** GSM  
**Title:** Cellular Radio Systems  
**Country:** SG  
**Application number:** 9603226-3  
**Countries applicable:** SG  
**Standard(s):** GSM 02.67, 02.68, 02.69, 03.67, 03.68, 03.69

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**Company:** BT  
**Project:** GSM  
**Title:** Cellular Radio Systems  
**Country:** US  
**Application number:** 179961  
**Countries applicable:** US  
**Standard(s):** GSM 02.67, 02.68, 02.69, 03.67, 03.68, 03.69

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**Company:** BT  
**Project:** GSM  
**Title:** Telecommunications System  
**Country:** AU  
**Patent number:** 685280  
**Countries applicable:** AU  
**Standard(s):** GSM 03.93 and GSM 04.93

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**Company:** BT  
**Project:** GSM  
**Title:** Telecommunications System  
**Country:** AU  
**Patent number:** 685281  
**Countries applicable:** AU  
**Standard(s):** GSM 03.93 and GSM 04.93

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**Company:** BT  
**Project:** GSM  
**Title:** Telecommunications System  
**Country:** CA  
**Application number:** 2189770  
**Countries applicable:** CA  
**Standard(s):** GSM 03.93 and GSM 04.93

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**Company:** BT  
**Project:** GSM  
**Title:** Telecommunications System  
**Country:** CA  
**Application number:** 2189772  
**Countries applicable:** CA  
**Standard(s):** GSM 03.93 and GSM 04.93

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**Company:** BT  
**Project:** GSM  
**Title:** Telecommunications System  
**Country:** CN  
**Application number:** 95193282.9  
**Countries applicable:** CN  
**Standard(s):** GSM 03.93 and GSM 04.93

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**Company:** BT  
**Project:** GSM  
**Title:** Telecommunications System  
**Country:** CN  
**Application number:** 95193283.7  
**Countries applicable:** CN  
**Standard(s):** GSM 03.93 and GSM 04.93

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**Company:** BT  
**Project:** GSM  
**Title:** Telecommunications System  
**Country:** EPO  
**Patent number:** 761068  
**Countries applicable:** AT, BE, DK, FR, DE, IT, NL, ES, SE, CH, GB  
**Standard(s):** GSM 03.93 and GSM 04.93

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**Company:** BT  
**Project:** GSM  
**Title:** Telecommunications System  
**Country:** EPO  
**Patent number:** 761067  
**Countries applicable:** BE, DK, FR, DE, IT, NL, ES, SE, CH, GB  
**Standard(s):** GSM 03.93 and GSM 04.93

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**Company:** BT  
**Project:** GSM  
**Title:** Telecommunications System  
**Country:** FI  
**Application number:** 964658  
**Countries applicable:** FI  
**Standard(s):** GSM 03.93 and GSM 04.93

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**Company:** BT  
**Project:** GSM  
**Title:** Telecommunications System  
**Country:** FI  
**Application number:** 964659  
**Countries applicable:** FI  
**Standard(s):** GSM 03.93 and GSM 04.93

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**Company:** BT  
**Project:** GSM  
**Title:** Telecommunications System  
**Country:** IN  
**Application number:** 708/MAS/95  
**Countries applicable:** IN  
**Standard(s):** GSM 03.93 and GSM 04.93

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**Company:** BT  
**Project:** GSM  
**Title:** Telecommunications System  
**Country:** IN  
**Application number:** 707/MAS/95  
**Countries applicable:** IN  
**Standard(s):** GSM 03.93 and GSM 04.93

---

**Company:** BT  
**Project:** GSM  
**Title:** Telecommunications System  
**Country:** JP  
**Application number:** 96-500499  
**Countries applicable:** JP  
**Standard(s):** GSM 03.93 and GSM 04.93

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**Company:** BT  
**Project:** GSM  
**Title:** Telecommunications System  
**Country:** JP  
**Application number:** 96-500498  
**Countries applicable:** JP  
**Standard(s):** GSM 03.93 and GSM 04.93

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**Company:** BT  
**Project:** GSM  
**Title:** Telecommunications System  
**Country:** KR  
**Application number:** 706250/96  
**Countries applicable:** KR  
**Standard(s):** GSM 03.93 and GSM 04.93

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**Company:** BT  
**Project:** GSM  
**Title:** Telecommunications System  
**Country:** KR  
**Application number:** 706251/96  
**Countries applicable:** KR  
**Standard(s):** GSM 03.93 and GSM 04.93

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**Company:** BT  
**Project:** GSM  
**Title:** Telecommunications System  
**Country:** NO  
**Application number:** 965034  
**Countries applicable:** NO  
**Standard(s):** GSM 03.93 and GSM 04.93

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**Company:** BT  
**Project:** GSM  
**Title:** Telecommunications System  
**Country:** NZ  
**Patent number:** 285839  
**Countries applicable:** NZ, PCT  
**Standard(s):** GSM 03.93 and GSM 04.93

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**Company:** BT  
**Project:** GSM  
**Title:** Telecommunications System  
**Country:** NZ  
**Patent number:** 285840  
**Countries applicable:** NZ, PCT  
**Standard(s):** GSM 03.93 and GSM 04.93

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**Company:** BT  
**Project:** GSM  
**Title:** Telecommunications System  
**Country:** SG  
**Application number:** 9603021-8  
**Countries applicable:** SG  
**Standard(s):** GSM 03.93 and GSM 04.93

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**Company:** BT  
**Project:** GSM  
**Title:** Telecommunications System  
**Country:** SG  
**Application number:** 9604081-1  
**Countries applicable:** SG  
**Standard(s):** GSM 03.93 and GSM 04.93

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**Company:** BT  
**Project:** GSM  
**Title:** Telecommunications System  
**Country:** US  
**Application number:** 673474/08  
**Countries applicable:** US  
**Standard(s):** GSM 03.93 and GSM 04.93

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**Company:** BT  
**Project:** GSM  
**Title:** Transmission of Digital Signals  
**Country:** AU  
**Application number:** 65245/96  
**Countries applicable:** AU  
**Standard(s):** GSM 02.53

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**Company:** BT  
**Project:** GSM  
**Title:** Transmission of Digital Signals  
**Country:** BR  
**Application number:** 9609577-6  
**Countries applicable:** BR  
**Standard(s):** GSM 02.53

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**Company:** BT  
**Project:** GSM  
**Title:** Transmission of Digital Signals  
**Country:** CA  
**Application number:** 2227273  
**Countries applicable:** CA  
**Standard(s):** GSM 02.53

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**Company:** BT  
**Project:** GSM  
**Title:** Transmission of Digital Signals  
**Country:** CN  
**Application number:** 96196861.3  
**Countries applicable:** CN  
**Standard(s):** GSM 02.53

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**Company:** BT  
**Project:** GSM  
**Title:** Transmission of Digital Signals  
**Country:** EPO  
**Application number:** 96924979.6  
**Countries applicable:** BE, DK, FI, FR, DE, IE, IT, NL, PT, ES, SE, CH, GB  
**Standard(s):** GSM 02.53

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**Company:** BT  
**Project:** GSM  
**Title:** Transmission of Digital Signals  
**Country:** HK  
**Application number:** tba  
**Countries applicable:** HK  
**Standard(s):** GSM 02.53

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**Company:** BT  
**Project:** GSM  
**Title:** Transmission of Digital Signals  
**Country:** IN  
**Application number:** 1287/MAS/96  
**Countries applicable:** IN  
**Standard(s):** GSM 02.53

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**Company:** BT  
**Project:** GSM  
**Title:** Transmission of Digital Signals  
**Country:** JP  
**Application number:** 97-506424  
**Countries applicable:** JP  
**Standard(s):** GSM 02.53

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**Company:** BT  
**Project:** GSM  
**Title:** Transmission of Digital Signals  
**Country:** KR  
**Application number:** 700512/98  
**Countries applicable:** KR  
**Standard(s):** GSM 02.53

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**Company:** BT  
**Project:** GSM  
**Title:** Transmission of Digital Signals  
**Country:** Malaysia  
**Application number:** PI9602981  
**Countries applicable:** MY  
**Standard(s):** GSM 02.53

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**Company:** BT  
**Project:** GSM  
**Title:** Transmission of Digital Signals  
**Country:** MX  
**Application number:** 980652  
**Countries applicable:** MX  
**Standard(s):** GSM 02.53

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**Company:** BT  
**Project:** GSM  
**Title:** Transmission of Digital Signals  
**Country:** NO  
**Application number:** 980260  
**Countries applicable:** NO  
**Standard(s):** GSM 02.53

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**Company:** BT  
**Project:** GSM  
**Title:** Transmission of Digital Signals  
**Country:** NZ  
**Application number:** 313228  
**Countries applicable:** NZ  
**Standard(s):** GSM 02.53

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**Company:** BT  
**Project:** GSM  
**Title:** Transmission of Digital Signals  
**Country:** SG  
**Application number:** 9801617-3  
**Countries applicable:** SG  
**Standard(s):** GSM 02.53

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**Company:** BT  
**Project:** GSM  
**Title:** Transmission of Digital Signals  
**Country:** US  
**Application number:** 983578/08  
**Countries applicable:** US  
**Standard(s):** GSM 02.53

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**Company:** BT  
**Project:** GSM  
**Title:** Voice Activity Detector  
**Country:** CA  
**Patent number:** 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 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:** BT  
**Project:** GSM  
**Title:** Voice Activity Detector  
**Country:** EPC  
**Patent number:** EP 0 335 521  
**Countries applicable:** AT, BE, CH, DE, ES, FR, GB, GR, IT, LU, NL, SE  
**Notes:** 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.

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**Company:** BT  
**Project:** GSM  
**Title:** Voice Activity Detector  
**Country:** EPC  
**Patent number:** EP335521  
**Countries applicable:** AT, BE, CH, DE, ES, FR, GB, GR, IT, LU, NL, SE  
**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:** BT  
**Project:** GSM  
**Title:** Voice Activity Detector  
**Country:** HK  
**Patent number:** 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:** BT  
**Project:** GSM  
**Title:** Voice Activity Detector  
**Country:** IE  
**Patent number:** 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:** BT  
**Project:** GSM  
**Title:** Voice Activity Detector  
**Country:** NZ  
**Patent number:** 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:** BT  
**Project:** GSM  
**Title:** Voice Activity Detector  
**Country:** PCT  
**Application number:** PCT/GB89/00247  
**Patent number:** Published WO 89/08910  
**Countries applicable:** AU, BR, DK, EP, 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 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:** BT  
**Project:** GSM  
**Title:** Voice Activity Detector  
**Country:** PT  
**Patent number:** 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:** BT  
**Project:** GSM  
**Title:** Voice Activity Detector  
**Country:** SG  
**Patent number:** 9691600-2  
**Countries applicable:** SP  
**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:** BT  
**Project:** GSM  
**Title:** Voice Activity Detector for Half Rate GSM Coder  
**Country:** IN  
**Application number:** 890/MAS/94 (filed 13 Sept. 94)  
**Standard(s):** 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:** BT  
**Project:** GSM  
**Title:** Voice Activity Detector for Half Rate GSM Coder  
**Country:** Malaysia  
**Application number:** PI 9402448 (filed 14 Sept. 94)  
**Standard(s):** 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:** BT  
**Project:** GSM  
**Title:** Voice Activity Detector for Half Rate GSM Coder  
**Country:** US  
**Application number:** 158 852 (filed 29 Nov. 93)  
**Countries applicable:** US  
**Standard(s):** 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:** Cellnet  
**Project:** GSM  
**Country:** n/a  
**Standard(s):** AMR  
**Notes:** 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.

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**Company:** CP8 Transac  
**Project:** GSM  
**Title:** - CP8 Ref: 2415  
**Country:** FR  
**Patent number:** 2 483 657  
**Standard(s):** GSM 02.09, GSM 03.20 and GSM 11.11

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**Company:** CP8 Transac  
**Project:** GSM  
**Title:** A Device for Transmitting Signals between two Data Processing Stations  
**Country:** FR  
**Patent number:** 2 483 713  
**Countries applicable:** FR  
**Standard(s):** 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:** CP8 Transac  
**Project:** GSM  
**Title:** A Method and System for Transmission of Confidential Data  
**Country:** FR  
**Patent number:** 2 477 344  
**Countries applicable:** FR  
**Standard(s):** 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:** CP8 Transac  
**Project:** GSM  
**Title:** A Method for Certifying the Origin of at Least One Item of Information Stored in the Memory of a First Electronic Device and Tra  
**Country:** FR  
**Patent number:** 2 530 053  
**Countries applicable:** FR  
**Standard(s):** 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:** CP8 Transac  
**Project:** GSM  
**Title:** A Process and System for Transmission of Signed Messages  
**Country:** FR  
**Patent number:** 2 480 539  
**Countries applicable:** FR  
**Standard(s):** 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:** CP8 Transac  
**Project:** GSM  
**Title:** Data processing System for Protecting the Secrecy of Confidential Information  
**Country:** FR  
**Patent number:** 2 392 447  
**Countries applicable:** FR  
**Standard(s):** 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:** CP8 Transac  
**Project:** GSM  
**Title:** Data Processing System which Protects the Secrecy of Confidential Information  
**Country:** FR  
**Patent number:** 2 389 284  
**Countries applicable:** FR  
**Standard(s):** 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:** CP8 Transac  
**Project:** GSM  
**Title:** SIM Personal Telephone Sets  
**Country:** FR  
**Patent number:** 2 401 459  
**Countries applicable:** FR  
**Standard(s):** 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:** CP8 Transac  
**Project:** GSM  
**Title:** SIM Personal Telephone Sets  
**Country:** FR  
**Patent number:** 2 566 880  
**Countries applicable:** FR  
**Standard(s):** 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:** CP8 Transac  
**Project:** GSM  
**Title:** SIM Personal Telephone Sets  
**Country:** FR  
**Patent number:** 2 460 506  
**Countries applicable:** FR  
**Standard(s):** 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:** Ericsson  
**Project:** GSM  
**Title:** Improvements in, or relating to, Equalisers  
**Country:** GB  
**Patent number:** GB 2 215 567  
**Countries applicable:** GB  
**Notes:** Ericsson OMC Ltd

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**Company:** Ericsson  
**Project:** GSM  
**Title:** Power Booster  
**Country:** GB  
**Patent number:** GB 2 251 768  
**Countries applicable:** GB  
**Notes:** Ericsson OMC Ltd

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**Company:** Ericsson  
**Project:** GSM  
**Title:** Receiver Gain  
**Country:** GB  
**Patent number:** GB 2 233 846  
**Countries applicable:** GB  
**Notes:** Ericsson OMC Ltd

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**Company:** Ericsson  
**Project:** GSM  
**Title:** Referring to the SMG11 AMR qualification deliverables documents, AMR-12a, §2.7  
**Country:** n/a  
**Notes:** 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:** Ericsson  
**Project:** GSM  
**Title:** Transmitter Power Control for Radio Telephone System.  
**Country:** GB  
**Patent number:** GB 2 233 517  
**Countries applicable:** GB  
**Notes:** Ericsson OMC Ltd

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**Company:** France Telecom  
**Project:** GSM  
**Title:** Method of adapting the noise masking level in an analysis-by-synthesis speech coder employing a short-term perceptual weighting filter  
**Country:** FR  
**Patent number:** 2734389  
**Countries applicable:** USA, CA, JP, CN, HK, Korea, Europe: FR, GB, DE, IT, NL, SE, DK  
**Notes:** B-FRANC candidate of AMR selection

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**Company:** France Telecom  
**Project:** GSM  
**Title:** Method of adapting the noise masking level in an analysis-by-synthesis speech coder employing a short-term perceptual weighting filter  
**Country:** FR  
**Patent number:** 2734389  
**Countries applicable:** USA, CA, JP, CN, HK, Korea, FR, GB, DE, IT, NL, SE, DK  
**Notes:** The list provided during this AMR selection phase may not include "pending" patents.

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**Company:** Gemplus  
**Project:** GSM  
**Title:** Procédé, carte à puce et terminaux pour effectuer des transactions à travers un réseau de télécommunication.  
**Country:** FR  
**Application number:** FR9714578  
**Countries applicable:** n/a  
**Standard(s):** 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:** Innovatron  
**Project:** GSM  
**Country:** DE  
**Application number:** 29 54 742.0 (09/03/93)  
**Countries applicable:** DE  
**Notes:** Code: SCLIF2. Expiry Date: 23/01/1999. Examination in progress.

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**Company:** Innovatron  
**Project:** GSM  
**Country:** DE  
**Application number:** 29 54 748.6 (19.12.94)  
**Countries applicable:** DE  
**Notes:** Code: SCLIF3. Expiry date: 23/01/1999. Examination in progress.

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**Company:** Innovatron  
**Project:** GSM  
**Country:** DE  
**Application number:** 29 33 191.7 (20/09/79)  
**Patent number:** 29 33 191 (06.02.92)  
**Countries applicable:** DE  
**Notes:** Code: SCLIF1. Expiry date: 23/01/1999. Final grant secured after opposition.

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**Company:** Innovatron  
**Project:** GSM  
**Country:** JP  
**Application number:** 500 325-54 (1979)  
**Patent number:** 1 435 657 (25.04.98)  
**Countries applicable:** JP  
**Notes:** Code: SCLIF. Expiry date: 23/01/1999. Final grant secured.

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**Company:** Innovatron  
**Project:** GSM  
**Country:** SE  
**Application number:** 79 07774-9  
**Patent number:** 431 687  
**Countries applicable:** SE  
**Notes:** Code: SCLIF. Expiry date: 23/01/1999. Final grant secured.

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**Company:** Innovatron  
**Project:** GSM  
**Country:** US  
**Application number:** 169 114 (17/09/79)  
**Patent number:** 4 494 464 (13.09.83)  
**Countries applicable:** US  
**Notes:** Code SCLIF. Expiry date: 13/09/2000. Final grant secured.

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**Company:** Innovatron  
**Project:** GSM  
**Title:** Method and Apparatus for Coupling Smart Cards to Transfer Devices  
**Country:** FR  
**Application number:** 78-01876 (24/01/78)  
**Patent number:** 2 415 378 (16/07/82)  
**Countries applicable:** FR  
**Notes:** Code: SCLIF. Expiry date: 24/01/1998. Final grant secured.

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**Company:** Innovatron  
**Project:** GSM  
**Title:** Method and Apparatus for Coupling Smart Cards to Transfer Devices  
**Country:** GB  
**Application number:** 32 293/79 (23/01/79)  
**Patent number:** 2 036 435 (03.11.82)  
**Countries applicable:** GB  
**Notes:** Code: SCLIF. Expiry date: 23/01/1999. Final grant secured.

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**Company:** Libertel Groep B.V.  
**Project:** GSM  
**Country:** PCT  
**Application number:** PCT/NL98/00480  
**Patent number:** Pending  
**Standard(s):** 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:** Libertel Groep B.V.  
**Project:** GSM  
**Title:** Number Portability  
**Country:** NL  
**Application number:** 1006862  
**Patent number:** 1006862  
**Countries applicable:** NL  
**Standard(s):** 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:** Lupa Finances  
**Project:** GSM  
**Title:** Automatic Telephone Number Dialler  
**Country:** CH  
**Application number:** 6127/81  
**Countries applicable:** CH  
**Notes:** 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.

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**Company:** Lupa Finances  
**Project:** GSM  
**Title:** Automatic Telephone Number Dialler  
**Country:** EPC  
**Patent number:** Published A1-0 075 120  
**Countries applicable:** AT, BE, DE, FR, GB, IT, LU, NL, SE  
**Notes:** 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.

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**Company:** Matra  
**Project:** GSM  
**Title:** Procédé de pseudo-synchronisation d'un réseau de communication à multiplexage dans le temps et applications  
**Country:** AU  
**Application number:** 622 543  
**Countries applicable:** AU  
**Standard(s):** GSM 04.08, version 05.10

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**Company:** Matra  
**Project:** GSM  
**Title:** Procédé de pseudo-synchronisation d'un réseau de communication à multiplexage dans le temps et applications  
**Country:** BR  
**Application number:** PI 900 1902.4  
**Countries applicable:** BR  
**Standard(s):** GSM 04.08, version 05.10

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**Company:** Matra  
**Project:** GSM  
**Title:** Procédé de pseudo-synchronisation d'un réseau de communication à multiplexage dans le temps et applications  
**Country:** CA  
**Application number:** 2 015 237  
**Countries applicable:** CA  
**Standard(s):** GSM 04.08, version 05.10

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**Company:** Matra  
**Project:** GSM  
**Title:** Procédé de pseudo-synchronisation d'un réseau de communication à multiplexage dans le temps et applications  
**Country:** EPC  
**Application number:** 0398773 B1  
**Countries applicable:** AT, BE, CH, DE, DK, ES, GB, IT, LI, LU, NL, SE  
**Standard(s):** GSM 04.08, version 05.10

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**Company:** Matra  
**Project:** GSM  
**Title:** Procédé de pseudo-synchronisation d'un réseau de communication à multiplexage dans le temps et applications  
**Country:** FI  
**Application number:** 90 2080  
**Standard(s):** GSM 04.08, version 05.10

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**Company:** Matra  
**Project:** GSM  
**Title:** Procédé de pseudo-synchronisation d'un réseau de communication à multiplexage dans le temps et applications  
**Country:** FR  
**Application number:** 89 05 469  
**Countries applicable:** FR  
**Standard(s):** GSM 04.08 and 05.10

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**Company:** Matra  
**Project:** GSM  
**Title:** Procédé de pseudo-synchronisation d'un réseau de communication à multiplexage dans le temps et applications  
**Country:** IE  
**Application number:** 65 521  
**Countries applicable:** IE  
**Standard(s):** GSM 04.08, version 05.10

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**Company:** Matra  
**Project:** GSM  
**Title:** Procédé de pseudo-synchronisation d'un réseau de communication à multiplexage dans le temps et applications  
**Country:** JP  
**Application number:** 1 986 761  
**Countries applicable:** JP  
**Standard(s):** GSM 04.08, version 05.10

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**Company:** Matra  
**Project:** GSM  
**Title:** Procédé de pseudo-synchronisation d'un réseau de communication à multiplexage dans le temps et applications  
**Country:** NO  
**Application number:** 90 18 15  
**Countries applicable:** NO  
**Standard(s):** GSM 04.08, version 05.10

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**Company:** Matra  
**Project:** GSM  
**Title:** Procédé de pseudo-synchronisation d'un réseau de communication à multiplexage dans le temps et applications  
**Country:** PT  
**Application number:** 93 870  
**Countries applicable:** PT  
**Standard(s):** GSM 04.08, version 05.10

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**Company:** Matra  
**Project:** GSM  
**Title:** Procédé de pseudo-synchronisation d'un réseau de communication à multiplexage dans le temps et applications  
**Country:** US  
**Application number:** 5 128 925  
**Countries applicable:** US  
**Standard(s):** GSM 04.08, version 05.10

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**Company:** Matra  
**Project:** GSM  
**Title:** Procédé et installation de radiotéléphonie numérique notamment de radiotéléphonie cellulaire de communication à multiplexage dans le temps et applications  
**Country:** FR  
**Application number:** 90 10 485  
**Countries applicable:** FR  
**Standard(s):** GSM 04.08, V4.9.0

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**Company:** Matra  
**Project:** GSM  
**Title:** Procédé et Installation de Radiotéléphonie Numérique notamment de Radiotéléphonie Cellulaire de Communication avec les Mobiles  
**Country:** AU  
**Application number:** 638 160  
**Countries applicable:** AU  
**Standard(s):** GSM 04.08, V4.9.0

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**Company:** Matra  
**Project:** GSM  
**Title:** Procédé et Installation de Radiotéléphonie Numérique notamment de Radiotéléphonie Cellulaire de Communication avec les Mobiles  
**Country:** EPC  
**Application number:** 0472 460 B1  
**Countries applicable:** BE, DE, DK, ES, GB, IT, LU, NL, SE  
**Standard(s):** GSM 04.08, V4.9.0

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**Company:** Matra  
**Project:** GSM  
**Title:** Procédé et Installation de Radiotéléphonie Numérique notamment de Radiotéléphonie Cellulaire de Communication avec les Mobiles  
**Country:** FI  
**Application number:** 91 03 903  
**Countries applicable:** FI  
**Standard(s):** GSM 04.08, V4.9.0

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**Company:** Matra  
**Project:** GSM  
**Title:** Procédé et installation de radiotéléphonie numérique notamment de radiotéléphonie cellulaire de communication avec les mobiles  
**Country:** FR  
**Application number:** 90 10 485  
**Standard(s):** GSM 04.08, V4.9.0

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**Company:** Mitsubishi Electric Corporation  
**Project:** GSM  
**Title:** Control Device for Radio Communication Apparatus  
**Country:** CA  
**Patent number:** CA 2 038 645  
**Countries applicable:** CA  
**Standard(s):** GSM 05 series  
**Notes:** TDMA Timing Control

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**Company:** Mitsubishi Electric Corporation  
**Project:** GSM  
**Title:** Control Device for Radio Communication Apparatus  
**Country:** EPC  
**Patent number:** EP 0464 314 A  
**Countries applicable:** GB, FR, DE, SE  
**Standard(s):** GSM 05 series  
**Notes:** TDMA Timing Control

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**Company:** Mitsubishi Electric Corporation  
**Project:** GSM  
**Title:** Control Device for Radio Communication Apparatus  
**Country:** JP  
**Patent number:** Published JP 406 882 7  
**Countries applicable:** JP  
**Standard(s):** GSM 05 series  
**Notes:** TDMA Timing Control

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**Company:** Mitsubishi Electric Corporation  
**Project:** GSM  
**Title:** Method and Apparatus for Handoff of in Call Progress  
**Country:** DK  
**Patent number:** DK 8 801 699  
**Countries applicable:** DK  
**Standard(s):** GSM 03.09 and 05.08

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**Company:** Mitsubishi Electric Corporation  
**Project:** GSM  
**Title:** Method and Apparatus for Handoff of in Call Progress  
**Country:** HK  
**Patent number:** HK 923/94  
**Countries applicable:** HK  
**Standard(s):** GSM 03.09 and 05.08

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**Company:** Mitsubishi Electric Corporation  
**Project:** GSM  
**Title:** Method and Apparatus for Handoff of in Call Progress  
**Country:** JP  
**Patent number:** Published JP 63245142  
**Countries applicable:** JP  
**Standard(s):** GSM 03.09 and 05.08

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**Company:** Mitsubishi Electric Corporation  
**Project:** GSM  
**Title:** Method and Apparatus for Handoff of in Call Progress  
**Country:** NO  
**Patent number:** NO 174 448 B  
**Countries applicable:** NO  
**Standard(s):** GSM 03.09 and 05.08

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**Company:** Mitsubishi Electric Corporation  
**Project:** GSM  
**Title:** Method and Apparatus for Handoff of in Call Progress  
**Country:** SE  
**Patent number:** Published SE 8 801 191  
**Countries applicable:** SE  
**Standard(s):** GSM 03.09 and 05.08

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**Company:** Mitsubishi Electric Corporation  
**Project:** GSM  
**Title:** Method and Apparatus for Handoff of in Call Progress  
**Country:** SG  
**Patent number:** SG 606/64  
**Countries applicable:** SI  
**Standard(s):** GSM 03.09 and 05.08

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**Company:** Mitsubishi Electric Corporation  
**Project:** GSM  
**Title:** Method and Apparatus for Handoff of in Call Progress  
**Country:** CA  
**Patent number:** CA 1 306 014  
**Countries applicable:** CA  
**Standard(s):** GSM 03.09 and 05.08

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**Company:** Mitsubishi Electric Corporation  
**Project:** GSM  
**Title:** Method and Apparatus for Handoff of in Call Progress  
**Country:** GB  
**Patent number:** GB2 204 215  
**Countries applicable:** GB  
**Standard(s):** GSM 03.09 and 05.08

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**Company:** Mitsubishi Electric Corporation  
**Project:** GSM  
**Title:** Method and Apparatus for Handoff of in Call Progress  
**Country:** US  
**Patent number:** US 5 067 171  
**Countries applicable:** US  
**Standard(s):** GSM 03.09 and 05.08

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**Company:** Motorola  
**Project:** GSM  
**Title:** An Antenna Array for a Cellular RF Communications System.  
**Country:** DE  
**Patent number:** P. 28 06 178  
**Countries applicable:** DE  
**Notes:** Applies broadly to GSM.

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**Company:** Motorola  
**Project:** GSM  
**Title:** An Antenna Array for a Cellular RF Communications System.  
**Country:** GB  
**Patent number:** 1 573 560  
**Countries applicable:** GB  
**Notes:** Applies broadly to GSM.

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**Company:** Motorola  
**Project:** GSM  
**Title:** Cellular Radio Telephone with Dropped Call Protection  
**Country:** EPC  
**Patent number:** Published A2-0 325 713  
**Countries applicable:** AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE  
**Standard(s):** GSM 04.08

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**Company:** Motorola  
**Project:** GSM  
**Title:** Cellular Radio Telephone with Dropped Call Protection  
**Country:** FI  
**Patent number:** Published 88 5520  
**Countries applicable:** FI  
**Standard(s):** GSM 04.08

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**Company:** Motorola  
**Project:** GSM  
**Title:** Cellular Voice & Data Telephone System  
**Country:** DK  
**Application number:** 859/86  
**Countries applicable:** DK  
**Notes:** Applies broadly to GSM.

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**Company:** Motorola  
**Project:** GSM  
**Title:** Cellular Voice & Data Telephone System  
**Country:** EPC  
**Patent number:** EP B1 0188 554  
**Countries applicable:** AT, BE, CH, DE, FR, GB, IT, NL, SE.  
**Notes:** Applies broadly to GSM.

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**Company:** Motorola  
**Project:** GSM  
**Title:** Cellular Voice & Data Telephone System  
**Country:** FI  
**Patent number:** 79 768  
**Countries applicable:** FI  
**Notes:** Applies broadly to GSM.

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

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**Company:** Motorola  
**Project:** GSM  
**Title:** Clock Rate Matching in Independent Networks  
**Country:** FR  
**Patent number:** 9202058  
**Countries applicable:** FR  
**Notes:** Applies broadly to GSM.

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**Company:** Motorola  
**Project:** GSM  
**Title:** Colocated Cellular Radiotelephone Systems  
**Country:** EPC  
**Application number:** 88306565.8  
**Countries applicable:** EP  
**Notes:** Applies broadly to GSM.

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**Company:** Motorola  
**Project:** GSM  
**Title:** Data Signalling System  
**Country:** DK  
**Patent number:** Published 170 082  
**Countries applicable:** DK  
**Standard(s):** GSM 04.08

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**Company:** Motorola  
**Project:** GSM  
**Title:** Data Signalling System  
**Country:** EPC  
**Patent number:** EP 0 116 577  
**Countries applicable:** FR, GB, DE, NL, LI, SE, CH

---

**Company:** Motorola  
**Project:** GSM  
**Title:** Data Signalling System  
**Country:** IT  
**Patent number:** 1 168 619  
**Countries applicable:** IT  
**Standard(s):** GSM 04.08

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**Company:** Motorola  
**Project:** GSM  
**Title:** Data Signalling System  
**Country:** NO  
**Patent number:** 169 415  
**Countries applicable:** NO  
**Standard(s):** GSM 04.08

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**Company:** Motorola  
**Project:** GSM  
**Title:** Digital Radio Communication System and Two-Way Radio  
**Country:** EPC  
**Application number:** 90 906636.7  
**Countries applicable:** EP  
**Notes:** Applies broadly to GSM.

---

**Company:** Motorola  
**Project:** GSM  
**Title:** Digital Radio Communication System and Two-Way Radio  
**Country:** FI  
**Application number:** 91 5002  
**Patent number:** FI  
**Notes:** Applies broadly to GSM.

---

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

---

**Company:** Motorola  
**Project:** GSM  
**Title:** Digital Speech Coding having improved Vector Excitation Source  
**Country:** DK  
**Application number:** 4381/89  
**Countries applicable:** DK  
**Standard(s):** GSM 06.20

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**Company:** Motorola  
**Project:** GSM  
**Title:** Digital Speech Coding having improved Vector Excitation Source  
**Country:** EPC  
**Patent number:** Published B1-0372008  
**Countries applicable:** AT, BE, CH, DE, FR, GB, IT, LU, NL, SE  
**Standard(s):** GSM 06.20

---

**Company:** Motorola  
**Project:** GSM  
**Title:** Digital Speech Coding having improved Vector Excitation Source  
**Country:** FI  
**Application number:** 894151  
**Countries applicable:** FI  
**Standard(s):** GSM 06.20

---

**Company:** Motorola  
**Project:** GSM  
**Title:** Digital Speech Coding having improved Vector Excitation Source  
**Country:** NO  
**Application number:** 893202  
**Countries applicable:** NO  
**Standard(s):** GSM 06.20.

---

**Company:** Motorola  
**Project:** GSM  
**Title:** Error Protection for Multi-Mode Speech Coders  
**Country:** EPC  
**Patent number:** Published A1-0556354  
**Countries applicable:** AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE  
**Standard(s):** GSM 06.20

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**Company:** Motorola  
**Project:** GSM  
**Title:** General Purpose Data Control System  
**Country:** DK  
**Patent number:** Published 129 884  
**Countries applicable:** DK  
**Standard(s):** GSM 04.08

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**Company:** Motorola  
**Project:** GSM  
**Title:** General Purpose Data Control System  
**Country:** EPC  
**Patent number:** EP B1 0115 507  
**Countries applicable:** CH, DE, FR, GB, NL, LI, SE  
**Standard(s):** GSM 04.08

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**Company:** Motorola  
**Project:** GSM  
**Title:** General Purpose Data Control System  
**Country:** GB  
**Application number:** 9422823.6  
**Countries applicable:** GB  
**Standard(s):** GSM 06.20

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**Company:** Motorola  
**Project:** GSM  
**Title:** General Purpose Data Control System  
**Country:** IT  
**Patent number:** 1 168 620  
**Countries applicable:** IT  
**Standard(s):** GSM 04.08

---

**Company:** Motorola  
**Project:** GSM  
**Title:** General Purpose Data Control System  
**Country:** NO  
**Patent number:** 173 799  
**Countries applicable:** NO  
**Standard(s):** GSM 04.08

---

**Company:** Motorola  
**Project:** GSM  
**Title:** Handoff Apparatus and Method with Interference Reduction for Radio System  
**Country:** EPC  
**Patent number:** Published A2-0255628  
**Countries applicable:** AT, BE, CH, DE, ES, FR, GB, IT, LU, NL, SE  
**Standard(s):** GSM 05.08

---

**Company:** Motorola  
**Project:** GSM  
**Title:** Local PSTN Interconnect with Remote Signal Link Processing  
**Country:** DE  
**Patent number:** P 4105884.4  
**Countries applicable:** DE  
**Notes:** Applies broadly to GSM.

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**Company:** Motorola  
**Project:** GSM  
**Title:** LPC Based Speech Synthesis with Adaptative Pitch Pre-Filter  
**Country:** EPC  
**Patent number:** Published A4-0496829  
**Countries applicable:** AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE  
**Standard(s):** GSM 06.20

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**Company:** Motorola  
**Project:** GSM  
**Title:** Method and Apparatus for Controlling a TDM Communication Device  
**Country:** EPC  
**Patent number:** Published A1-0538546  
**Countries applicable:** AT, BE, CH, DE, FR, GB, IT, LU, NL, SE  
**Standard(s):** GSM 05.01

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**Company:** Motorola  
**Project:** GSM  
**Title:** Method and Apparatus for Controlling a TDM Communication Device  
**Country:** EPC  
**Patent number:** Published B1-0261127  
**Countries applicable:** AT, BE, CH, DE, FR, GB, IT, LI, NL, SE  
**Standard(s):** GSM 05.01

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**Company:** Motorola  
**Project:** GSM  
**Title:** Method and Apparatus for Controlling a TDM Communication Device  
**Country:** EPC  
**Patent number:** Published A2-0412583  
**Countries applicable:** AT, BE, CH, DE, FR, GB, IT, LU, NL, SE  
**Standard(s):** GSM 05.01

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**Company:** Motorola  
**Project:** GSM  
**Title:** Method for Generating a Spectral Noise Weighting Filter for use in a Speech Coder  
**Country:** DE  
**Application number:** P 4491015T1  
**Countries applicable:** DE  
**Standard(s):** GSM 06.20

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**Company:** Motorola  
**Project:** GSM  
**Title:** Method for Generating a Spectral Noise Weighting Filter for use in a Speech Coder  
**Country:** FR  
**Patent number:** Published 9401450  
**Countries applicable:** FR  
**Standard(s):** GSM 06.20

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**Company:** Motorola  
**Project:** GSM  
**Title:** Method for Generating a Spectral Noise Weighting Filter for use in a Speech Coder  
**Country:** GB  
**Application number:** 9420077.1  
**Countries applicable:** GB  
**Standard(s):** GSM 06.20

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**Company:** Motorola  
**Project:** GSM  
**Title:** Method for Generating a Spectral Noise Weighting Filter for use in a Speech Coder  
**Country:** SE  
**Application number:** 9403630-8  
**Countries applicable:** SE  
**Standard(s):** GSM 06.20

---

**Company:** Motorola  
**Project:** GSM  
**Title:** Method of operating a radio trans. or Comm. system including central Sta. and a plurality of indi. Remotesta. , a radio trans. o  
**Country:** DE  
**Patent number:** P 3 787 788  
**Countries applicable:** DE  
**Standard(s):** GSM 05.08

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**Company:** Motorola  
**Project:** GSM  
**Title:** Method of Operating a Radio Trans. or Comm. System including Central Sta. and a plurality of Indi. Remotesta. , a Radio Trans. o  
**Country:** DK  
**Patent number:** Published 165 273  
**Countries applicable:** DK  
**Standard(s):** GSM 05.08

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**Company:** Motorola  
**Project:** GSM  
**Title:** Method of Operating a Radio Trans. or Comm. System including Central Sta. and a plurality of Indi. Remotesta. , a Radio Trans. o  
**Country:** EPC  
**Patent number:** EP B1 0269 643  
**Countries applicable:** AT, BE, CH, LI, FR, GB, IT, LU, NL, SE  
**Standard(s):** GSM 05.08

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**Company:** Motorola  
**Project:** GSM  
**Title:** Packet Switched Cellular Telephone System  
**Country:** EPC  
**Patent number:** Published A2-0 332 818  
**Countries applicable:** AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE  
**Standard(s):** GSM 05.08

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**Company:** Motorola  
**Project:** GSM  
**Title:** Packet Switched Cellular Telephone System  
**Country:** FI  
**Patent number:** Published 8 901 276  
**Countries applicable:** FI  
**Standard(s):** GSM 05.08

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**Company:** Motorola  
**Project:** GSM  
**Title:** Radio Arrangement having Two Radios Sharing Circuitry  
**Country:** DK  
**Application number:** 1852/89  
**Countries applicable:** DK  
**Notes:** Applies broadly to GSM.

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**Company:** Motorola  
**Project:** GSM  
**Title:** Radio Arrangement having Two Radios Sharing Circuitry  
**Country:** EPC  
**Patent number:** EP 0 310 876  
**Countries applicable:** AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE  
**Notes:** Applies broadly to GSM.

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**Company:** Motorola  
**Project:** GSM  
**Title:** Radio Arrangement having Two Radios Sharing Circuitry  
**Country:** FI  
**Application number:** 89 2678  
**Countries applicable:** FI  
**Notes:** Applies broadly to GSM.

---

**Company:** Motorola  
**Project:** GSM  
**Title:** Radio Arrangement having Two Radios Sharing Circuitry  
**Country:** NO  
**Application number:** 892094  
**Countries applicable:** NO  
**Notes:** Applies broadly to GSM.

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**Company:** Motorola  
**Project:** GSM  
**Title:** Selective Call Paging and Priority Signalling System  
**Country:** DE  
**Patent number:** P 3 382 094.5  
**Countries applicable:** DE  
**Standard(s):** GSM 04.08

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**Company:** Motorola  
**Project:** GSM  
**Title:** Selective Call Paging and Priority Signalling System  
**Country:** DK  
**Patent number:** Published 170 085  
**Countries applicable:** DK  
**Standard(s):** GSM 04.08

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<b>Company:</b>	Motorola
<b>Project:</b>	GSM
<b>Title:</b>	Selective Call Paging and Priority Signalling System
<b>Country:</b>	EPC
<b>Patent number:</b>	EP B1 0115 499
<b>Countries applicable:</b>	FR, GB, NL, SE
<b>Standard(s):</b>	GSM 04.08

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<b>Company:</b>	Motorola
<b>Project:</b>	GSM
<b>Title:</b>	Selective Call Paging and Priority Signalling System
<b>Country:</b>	NO
<b>Patent number:</b>	168 079
<b>Countries applicable:</b>	NO
<b>Standard(s):</b>	GSM 04.08

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<b>Company:</b>	Motorola
<b>Project:</b>	GSM
<b>Title:</b>	Selective System Scan for Multibone Radiotelephone Subscriber Units
<b>Country:</b>	IE
<b>Application number:</b>	2029/89
<b>Countries applicable:</b>	IE

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<b>Company:</b>	Motorola
<b>Project:</b>	GSM
<b>Title:</b>	Selective System Scan for Multizone Radiotelephone Subscriber Units
<b>Country:</b>	EPC
<b>Patent number:</b>	Published A2-0 352 786
<b>Countries applicable:</b>	AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SW
<b>Notes:</b>	Applies broadly to GSM.

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<b>Company:</b>	Motorola
<b>Project:</b>	GSM
<b>Title:</b>	TDM Communication System Efficient Spectrum Utilization
<b>Country:</b>	DK
<b>Application number:</b>	6161/87
<b>Countries applicable:</b>	DK
<b>Standard(s):</b>	GSM 05.01

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<b>Company:</b>	Motorola
<b>Project:</b>	GSM
<b>Title:</b>	TDM Communication System Efficient Spectrum Utilization
<b>Country:</b>	EPC
<b>Patent number:</b>	Published B1 0261 112
<b>Countries applicable:</b>	AT, BE, CH, DE, FR, GB, IT, LU, NL, SE
<b>Standard(s):</b>	GSM 05.01

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<b>Company:</b>	Motorola
<b>Project:</b>	GSM
<b>Title:</b>	TDM Communication System Efficient Spectrum Utilization
<b>Country:</b>	FI
<b>Patent number:</b>	86 122
<b>Countries applicable:</b>	FI
<b>Standard(s):</b>	GSM 05.01

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<b>Company:</b>	Motorola
<b>Project:</b>	GSM
<b>Title:</b>	TDM Communication System Efficient Spectrum Utilization
<b>Country:</b>	NO
<b>Application number:</b>	874685
<b>Countries applicable:</b>	NO
<b>Standard(s):</b>	GSM 05.01

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**Company:** Motorola  
**Project:** GSM  
**Title:** TDMA Communication System with Adaptative Equalization  
**Country:** EPC  
**Patent number:** Published A2-0 343 189  
**Countries applicable:** AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE  
**Notes:** Applies broadly to GSM.

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**Company:** Motorola  
**Project:** GSM  
**Title:** TDMA Radio System employing BPSR Synchronisation for QPSK Signals subject to Random Phase Variation and Multipath Fading  
**Country:** EPC  
**Patent number:** Published A2-0 318 686  
**Countries applicable:** AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE  
**Notes:** Applies broadly to GSM.

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**Company:** Motorola  
**Project:** GSM  
**Title:** TDMA Radio System employing BPSR Synchronisation for QPSK Signals subject to Random Phase Variation and Multipath Fading  
**Country:** FI  
**Patent number:** 97 712  
**Countries applicable:** FI  
**Notes:** Applies broadly to GSM.

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**Company:** Motorola  
**Project:** GSM  
**Title:** Trunked Communication System with Nationwide Roaming Capability  
**Country:** EPC  
**Patent number:** Published A1-0 398 911  
**Countries applicable:** AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE  
**Notes:** Applies broadly to GSM.

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**Company:** Motorola  
**Project:** GSM  
**Title:** Two-way personal message with extended coverage  
**Country:** DE  
**Patent number:** P. 3 382 107.0  
**Countries applicable:** DE  
**Standard(s):** GSM 03.02

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**Company:** Motorola  
**Project:** GSM  
**Title:** Two-way personal message with extended coverage  
**Country:** EPC  
**Patent number:** EP B1 0179 898  
**Countries applicable:** AT, BE, CH, FR, GB, LU, IT, NL, SE  
**Standard(s):** GSM 03.02

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**Company:** Motorola  
**Project:** GSM  
**Title:** Vector Quantizer Method and Apparatus  
**Country:** DE  
**Application number:** P 4492048.2  
**Countries applicable:** DE  
**Standard(s):** GSM 06.20

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**Company:** Motorola  
**Project:** GSM  
**Title:** Vector Quantizer Method and Apparatus  
**Country:** FR  
**Patent number:** Published 2709366  
**Countries applicable:** FR  
**Standard(s):** GSM 06.20

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**Company:** Motorola  
**Project:** GSM  
**Title:** Vector Quantizer Method and Apparatus  
**Country:** FR  
**Patent number:** Published 2709387  
**Countries applicable:** FR  
**Standard(s):** GSM 06.20

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**Company:** Motorola  
**Project:** GSM  
**Title:** Vector Quantizer Method and Apparatus  
**Country:** FR  
**Patent number:** Published 2706064  
**Countries applicable:** FR  
**Standard(s):** GSM 06.20

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**Company:** Motorola  
**Project:** GSM  
**Title:** Vector Quantizer Method and Apparatus  
**Country:** GB  
**Application number:** 9420077.1  
**Countries applicable:** GB

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**Company:** Motorola  
**Project:** GSM  
**Title:** Vector Quantizer Method and Apparatus  
**Country:** SE  
**Application number:** 9404086  
**Countries applicable:** SE  
**Standard(s):** GSM 06.20

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**Company:** NEC Corporation  
**Project:** GSM  
**Country:** CA  
**Application number:** 444239-3  
**Patent number:** 1197619  
**Countries applicable:** CA  
**Notes:** AMR

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**Company:** NEC Corporation  
**Project:** GSM  
**Country:** JP  
**Application number:** 57-231603  
**Patent number:** 1740692  
**Countries applicable:** JP  
**Notes:** AMR

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**Company:** NEC Corporation  
**Project:** GSM  
**Country:** JP  
**Application number:** 57-231606  
**Patent number:** 1740694  
**Countries applicable:** JP  
**Notes:** AMR

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**Company:** NEC Corporation  
**Project:** GSM  
**Country:** JP  
**Application number:** 57-231605  
**Patent number:** 1740693  
**Countries applicable:** JP  
**Notes:** AMR

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**Company:** NEC Corporation  
**Project:** GSM  
**Title:** Digital cellular telecommunications system (Phase 2); Radio subsystem synchronization  
**Country:** n/a  
**Patent number:** 0 318 033  
**Countries applicable:** EP (DE, GB, SE)  
**Standard(s):** ETS 300 579 (GSM 05.10, V4.9.0)  
**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:** 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:** n/a  
**Patent number:** Re. 36,309  
**Countries applicable:** USA  
**Standard(s):** 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:** NEC Corporation  
**Project:** GSM  
**Title:** Method and Apparatus for Encoding Voice Signals  
**Country:** US  
**Patent number:** 4 716 592  
**Countries applicable:** US  
**Standard(s):** GSM 06.60  
**Notes:** Relevant to prETS 300 726 "Digital cellular telecommunications system; Enhanced Full Rate (EFR) speech transcoding"

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**Company:** NEC Corporation  
**Project:** GSM  
**Title:** Method and apparatus for encoding voice signals  
**Country:** US  
**Application number:** 565804  
**Patent number:** 4716592  
**Countries applicable:** US  
**Notes:** AMR

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**Company:** NEC Corporation  
**Project:** GSM  
**Title:** Speech Coder  
**Country:** EPC  
**Application number:** 91102440.4  
**Countries applicable:** DE, FR, GB  
**Standard(s):** 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:** NEC Corporation  
**Project:** GSM  
**Title:** Speech Coder  
**Country:** US  
**Patent number:** 5 208 862  
**Countries applicable:** US  
**Standard(s):** 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:** NEC Corporation  
**Project:** GSM  
**Title:** Speech Parameter Coding Method and Apparatus  
**Country:** EPC  
**Application number:** 92103179  
**Patent number:** 0504 627 A2  
**Countries applicable:** DE, FR, GB  
**Standard(s):** 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:** NEC Corporation  
**Project:** GSM  
**Title:** Speech Parameter Coding Method and Apparatus  
**Country:** US  
**Patent number:** 5 487 128  
**Countries applicable:** US  
**Standard(s):** 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:** Nokia  
**Project:** GSM  
**Country:** CA  
**Application number:** 010 830  
**Countries applicable:** CA  
**Notes:** 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.

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**Company:** Nokia  
**Project:** GSM  
**Country:** GB  
**Patent number:** 9605123  
**Countries applicable:** GB  
**Notes:** AMR

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**Company:** Nokia  
**Project:** GSM  
**Country:** GB  
**Application number:** GB 9512284  
**Countries applicable:** GB  
**Notes:** 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.

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**Company:** Nokia  
**Project:** GSM  
**Country:** US  
**Patent number:** 5444816  
**Countries applicable:** US  
**Notes:** AMR

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**Company:** Nokia  
**Project:** GSM  
**Country:** US  
**Patent number:** 4969192  
**Countries applicable:** US  
**Notes:** AMR

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**Company:** Nokia  
**Project:** GSM  
**Country:** US  
**Patent number:** 5664053  
**Countries applicable:** US  
**Notes:** AMR

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**Company:** Nokia  
**Project:** GSM  
**Title:** Algebraic codebook with signal-selected pulse amplitudes for fast coding of speech  
**Country:** AU  
**Application number:** AU 9644796  
**Standard(s):** GSM 6.60

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**Company:** Nokia  
**Project:** GSM  
**Title:** Algebraic codebook with signal-selected pulse amplitudes for fast coding of speech  
**Country:** DE  
**Application number:** 19604273.9  
**Standard(s):** GSM 6.60

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**Company:** Nokia  
**Project:** GSM  
**Title:** Algebraic codebook with signal-selected pulse amplitudes for fast coding of speech  
**Country:** FR  
**Application number:** 9601426  
**Patent number:** FR 2730336  
**Standard(s):** GSM 6.60

---

**Company:** Nokia  
**Project:** GSM  
**Title:** Algebraic codebook with signal-selected pulse amplitudes for fast coding of speech  
**Country:** GB  
**Application number:** 9602391.6  
**Patent number:** GB 2297671  
**Standard(s):** GSM 6.60

---

**Company:** Nokia  
**Project:** GSM  
**Title:** Algebraic codebook with signal-selected pulse amplitudes for fast coding of speech  
**Country:** PCT  
**Application number:** PCT/CA96/00069  
**Patent number:** WO 9624925  
**Standard(s):** GSM 6.60

---

**Company:** Nokia  
**Project:** GSM  
**Title:** Algebraic codebook with signal-selected pulse amplitudes for fast coding of speech  
**Country:** ZA  
**Application number:** 96/0852  
**Patent number:** ZA 96/0852  
**Standard(s):** GSM 6.60

---

**Company:** Nokia  
**Project:** GSM  
**Title:** Control Of Handover And Transmission Power Control Of Mobile Station In A Mobile Telecommunications system  
**Country:** AU  
**Application number:** AU 24104/95  
**Patent number:** AU 682112  
**Standard(s):** GSM 05.02, GSM 05.08

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**Company:** Nokia  
**Project:** GSM  
**Title:** Control Of Handover And Transmission Power Control Of Mobile Station In A Mobile Telecommunications system  
**Country:** EPC  
**Application number:** EP 95918002.7  
**Patent number:** EP 709015  
**Countries applicable:** AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE  
**Standard(s):** GSM 05.02, GSM 05.08

---

**Company:** Nokia  
**Project:** GSM  
**Title:** Control Of Handover And Transmission Power Control Of Mobile Station In A Mobile Telecommunications system  
**Country:** FI  
**Application number:** FI 942191  
**Patent number:** FI 96468  
**Standard(s):** GSM 05.02, GSM 05.08

---

**Company:** Nokia  
**Project:** GSM  
**Title:** Control Of Handover And Transmission Power Control Of Mobile Station In A Mobile Telecommunications system  
**Country:** JP  
**Application number:** JP 7-529392  
**Patent number:** JP 9504153  
**Standard(s):** GSM 05.02, GSM 05.08

---

**Company:** Nokia  
**Project:** GSM  
**Title:** Control Of Handover And Transmission Power Control Of Mobile Station In A Mobile Telecommunications system  
**Country:** NO  
**Application number:** NO 960118  
**Patent number:** NO 9600118  
**Standard(s):** GSM 05.02, GSM 05.08

---

**Company:** Nokia  
**Project:** GSM  
**Title:** Control Of Handover And Transmission Power Control Of Mobile Station In A Mobile Telecommunications system  
**Country:** PCT  
**Application number:** PCT/FI95/00249  
**Patent number:** WO 9531879  
**Standard(s):** GSM 05.02, GSM 05.08

---

**Company:** Nokia  
**Project:** GSM  
**Title:** Data Transmission Method In A TDMA Mobile Communication System  
**Country:** AU  
**Application number:** AU 35239/95  
**Patent number:** AU 9535239  
**Standard(s):** GSM 03.34

---

**Company:** Nokia  
**Project:** GSM  
**Title:** Data Transmission Method In A TDMA Mobile Communication System  
**Country:** EPC  
**Application number:** EP 95932032  
**Patent number:** EP 783811  
**Countries applicable:** AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE  
**Standard(s):** GSM 03.34

---

**Company:** Nokia  
**Project:** GSM  
**Title:** Data Transmission Method In A TDMA Mobile Communication System  
**Country:** EPC  
**Application number:** EP 95932031  
**Patent number:** EP 783826  
**Countries applicable:** AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE  
**Standard(s):** GSM 03.34

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**Company:** Nokia  
**Project:** GSM  
**Title:** Data Transmission Method In A TDMA Mobile Communication System  
**Country:** FI  
**Application number:** FI 944487  
**Patent number:** FI 96557  
**Standard(s):** GSM 03.34

---

**Company:** Nokia  
**Project:** GSM  
**Title:** Data Transmission Method In A TDMA Mobile Communication System  
**Country:** FI  
**Application number:** FI 944488  
**Patent number:** FI 96558  
**Countries applicable:** FI  
**Standard(s):** GSM 03.34

---

**Company:** Nokia  
**Project:** GSM  
**Title:** Data Transmission Method In A TDMA Mobile Communication System  
**Country:** PCT  
**Application number:** PCT/FI95/00526  
**Patent number:** WO 9610320  
**Standard(s):** GSM 03.34

---

**Company:** Nokia  
**Project:** GSM  
**Title:** Data Transmission Method In A TDMA Mobile Communication System  
**Country:** PCT  
**Application number:** PCT/FI95/00527  
**Patent number:** WO 9610305  
**Standard(s):** GSM 03.34

---

**Company:** Nokia  
**Project:** GSM  
**Title:** Data Transmission System With Sliding-Window Data Flow Control  
**Country:** AU  
**Application number:** AU 56506/96  
**Patent number:** AU 9656506  
**Standard(s):** GSM 04.22

---

**Company:** Nokia  
**Project:** GSM  
**Title:** Data Transmission System With Sliding-Window Data Flow Control  
**Country:** EPC  
**Application number:** EP 96913557  
**Patent number:** EP 788702  
**Countries applicable:** AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE  
**Standard(s):** GSM 04.22

---

**Company:** Nokia  
**Project:** GSM  
**Title:** Data Transmission System With Sliding-Window Data Flow Control  
**Country:** FI  
**Application number:** FI 952256  
**Patent number:** FI 98174  
**Countries applicable:** FI  
**Standard(s):** GSM 04.22

---

**Company:** Nokia  
**Project:** GSM  
**Title:** Data Transmission System With Sliding-Window Data Flow Control  
**Country:** PCT  
**Application number:** PCT/FI96/00260  
**Patent number:** WO 9636154  
**Standard(s):** GSM 04.22

---

**Company:** Nokia  
**Project:** GSM  
**Title:** Depth-first algebraic-codebook search for fast coding of speech  
**Country:** DE  
**Application number:** 19609170.5  
**Standard(s):** GSM 6.60

---

**Company:** Nokia  
**Project:** GSM  
**Title:** Depth-first algebraic-codebook search for fast coding of speech  
**Country:** FR  
**Application number:** 9602957  
**Standard(s):** GSM 6.60

---

**Company:** Nokia  
**Project:** GSM  
**Title:** Depth-first algebraic-codebook search for fast coding of speech  
**Country:** GB  
**Application number:** 965123.0  
**Patent number:** GB 2299001  
**Standard(s):** GSM 6.60

---

**Company:** Nokia  
**Project:** GSM  
**Title:** Depth-first algebraic-codebook search for fast coding of speech  
**Country:** PCT  
**Application number:** PCT/CA96/00135  
**Patent number:** WO 9628810  
**Standard(s):** GSM 6.60

---

**Company:** Nokia  
**Project:** GSM  
**Title:** Depth-first algebraic-codebook search for fast coding of speech  
**Country:** SE  
**Application number:** 9600918-8  
**Standard(s):** GSM 6.60

---

**Company:** Nokia  
**Project:** GSM  
**Title:** Depth-first algebraic-codebook search for fast coding of speech  
**Country:** ZA  
**Application number:** 96/1913  
**Patent number:** ZA 96/1913  
**Standard(s):** GSM 6.60

---

**Company:** Nokia  
**Project:** GSM  
**Title:** Dynamic codebook for efficient speech coding based on algebraic codes  
**Country:** CA  
**Application number:** 2010830  
**Patent number:** CA 2010830  
**Standard(s):** GSM 6.60

---

**Company:** Nokia  
**Project:** GSM  
**Title:** Dynamic codebook for efficient speech coding based on algebraic codes  
**Country:** EPC  
**Application number:** 90915956.8  
**Patent number:** EP 516621  
**Standard(s):** GSM 6.60

---

**Company:** Nokia  
**Project:** GSM  
**Title:** Dynamic codebook for efficient speech coding based on algebraic codes  
**Country:** US  
**Application number:** 927528  
**Patent number:** US 5444816  
**Standard(s):** GSM 6.60

---

**Company:** Nokia  
**Project:** GSM  
**Title:** Facsimile Transmission In A Mobile Communication System  
**Country:** AU  
**Application number:** AU 48334/96  
**Patent number:** AU 9648334  
**Standard(s):** GSM 03.45

---

**Company:** Nokia  
**Project:** GSM  
**Title:** Facsimile Transmission In A Mobile Communication System  
**Country:** EPC  
**Application number:** EP 96904119  
**Patent number:** EP 759247  
**Countries applicable:** AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE  
**Standard(s):** GSM 03.45

---

**Company:** Nokia  
**Project:** GSM  
**Title:** Facsimile Transmission In A Mobile Communication System  
**Country:** FI  
**Application number:** FI 951020  
**Patent number:** FI 100213  
**Countries applicable:** FI  
**Standard(s):** GSM 03.45

---

**Company:** Nokia  
**Project:** GSM  
**Title:** Facsimile Transmission In A Mobile Communication System  
**Country:** NO  
**Application number:** NO 964687  
**Patent number:** NO 9604687  
**Standard(s):** GSM 03.45

---

**Company:** Nokia  
**Project:** GSM  
**Title:** Facsimile Transmission In A Mobile Communication System  
**Country:** PCT  
**Application number:** PCT/FI96/00136  
**Patent number:** WO 9627975  
**Standard(s):** GSM 03.45

---

**Company:** Nokia  
**Project:** GSM  
**Title:** High-Speed Data Transmission In Mobile Communication Networks  
**Country:** AU  
**Application number:** AU 48332/96  
**Patent number:** AU 9648332  
**Standard(s):** GSM 04.21

---

**Company:** Nokia  
**Project:** GSM  
**Title:** High-Speed Data Transmission In Mobile Communication Networks  
**Country:** AU  
**Application number:** AU 41186/96  
**Patent number:** AU 9641186  
**Standard(s):** GSM 04.21

---

**Company:** Nokia  
**Project:** GSM  
**Title:** High-Speed Data Transmission In Mobile Communication Networks  
**Country:** EPC  
**Application number:** EP 96904117.7  
**Patent number:** EP 0813779  
**Countries applicable:** AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE  
**Standard(s):** GSM 04.21

---

**Company:** Nokia  
**Project:** GSM  
**Title:** High-Speed Data Transmission In Mobile Communication Networks  
**Country:** EPC  
**Application number:** EP 95939304.2  
**Patent number:** EP 801853  
**Countries applicable:** AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE  
**Standard(s):** GSM 04.21

---

**Company:** Nokia  
**Project:** GSM  
**Title:** High-Speed Data Transmission In Mobile Communication Networks  
**Country:** FI  
**Application number:** FI 951019  
**Patent number:** FI 100212  
**Countries applicable:** FI  
**Standard(s):** GSM 04.21

---

**Company:** Nokia  
**Project:** GSM  
**Title:** High-Speed Data Transmission In Mobile Communication Networks  
**Country:** FI  
**Application number:** FI 945817  
**Patent number:** FI 97187  
**Standard(s):** GSM 04.21

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**Company:** Nokia  
**Project:** GSM  
**Title:** High-Speed Data Transmission In Mobile Communication Networks  
**Country:** NO  
**Application number:** NO 972629  
**Patent number:** NO 9702629  
**Standard(s):** GSM 04.21

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**Company:** Nokia  
**Project:** GSM  
**Title:** High-Speed Data Transmission In Mobile Communication Networks  
**Country:** PCT  
**Application number:** PCT/FI96/00134  
**Patent number:** WO 9627959  
**Standard(s):** GSM 04.21

---

**Company:** Nokia  
**Project:** GSM  
**Title:** High-Speed Data Transmission In Mobile Communication Networks  
**Country:** PCT  
**Application number:** PCT/FI95/00673  
**Patent number:** WO 9618248  
**Standard(s):** GSM 04.21

---

**Company:** Nokia  
**Project:** GSM  
**Title:** Location updating for a packet-switched data service in a mobile communication system  
**Country:** AU  
**Application number:** AU 2778795  
**Patent number:** AU 9527787  
**Standard(s):** GSM 03.60

---

**Company:** Nokia  
**Project:** GSM  
**Title:** Location updating for a packet-switched data service in a mobile communication system  
**Country:** EPC  
**Application number:** EP 95915211.7  
**Patent number:** EP 754395  
**Countries applicable:** AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE  
**Standard(s):** GSM 03.60

---

**Company:** Nokia  
**Project:** GSM  
**Title:** Location updating for a packet-switched data service in a mobile communication system  
**Country:** FI  
**Application number:** FI 941652  
**Patent number:** FI 95984  
**Standard(s):** GSM 03.60

---

**Company:** Nokia  
**Project:** GSM  
**Title:** Location updating for a packet-switched data service in a mobile communication system  
**Country:** PCT  
**Application number:** PCT/FI95/00191  
**Patent number:** WO 9528063  
**Standard(s):** GSM 03.60

---

**Company:** Nokia  
**Project:** GSM  
**Title:** Method And Apparatus For Speech Transmission In A Mobile Communications System  
**Country:** AU  
**Application number:** AU 28887/95  
**Patent number:** AU 9528887  
**Standard(s):** GSM 05.03



---

**Company:** Nokia  
**Project:** GSM  
**Title:** Method And Apparatus For Speech Transmission In A Mobile Communications System  
**Country:** EPC  
**Application number:** EP 95924336.1  
**Patent number:** EP 722634  
**Countries applicable:** AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE  
**Standard(s):** GSM 05.03

---

**Company:** Nokia  
**Project:** GSM  
**Title:** Method And Apparatus For Speech Transmission In A Mobile Communications System  
**Country:** FI  
**Application number:** FI 943302  
**Patent number:** FI 96650  
**Standard(s):** GSM 05.03

---

**Company:** Nokia  
**Project:** GSM  
**Title:** Method And Apparatus For Speech Transmission In A Mobile Communications System  
**Country:** JP  
**Application number:** JP 8-504136  
**Patent number:** JP 9506491  
**Standard(s):** GSM 05.03

---

**Company:** Nokia  
**Project:** GSM  
**Title:** Method And Apparatus For Speech Transmission In A Mobile Communications System  
**Country:** NO  
**Application number:** NO 960979  
**Patent number:** NO 9600979  
**Standard(s):** GSM 05.03

---

**Company:** Nokia  
**Project:** GSM  
**Title:** Method And Apparatus For Speech Transmission In A Mobile Communications System  
**Country:** PCT  
**Application number:** PCT/FI95/00390  
**Patent number:** WO 9602091  
**Standard(s):** GSM 05.03

---

**Company:** Nokia  
**Project:** GSM  
**Title:** Method for locking to the user's card in a portable radio telephone  
**Country:** DE  
**Application number:** 88306554.2  
**Patent number:** DE 3889800.4  
**Standard(s):** GSM 02.22

---

**Company:** Nokia  
**Project:** GSM  
**Title:** Method for locking to the user's card in a portable radio telephone  
**Country:** DK  
**Application number:** 4219/88  
**Patent number:** DK 169158  
**Standard(s):** GSM 02.22

---

**Company:** Nokia  
**Project:** GSM  
**Title:** Method for locking to the user's card in a portable radio telephone  
**Country:** EPC  
**Application number:** 88306554.2  
**Patent number:** EP 0301740  
**Countries applicable:** NL, BE, ES, AT, GR, LU, CH, LI  
**Standard(s):** GSM 02.22

---

**Company:** Nokia  
**Project:** GSM  
**Title:** Method for locking to the user's card in a portable radio telephone  
**Country:** FI  
**Application number:** 873309  
**Patent number:** FI 77550  
**Standard(s):** GSM 02.22

---

**Company:** Nokia  
**Project:** GSM  
**Title:** Method for locking to the user's card in a portable radio telephone  
**Country:** FR  
**Application number:** 88306554.2  
**Patent number:** FR 0301740  
**Standard(s):** GSM 02.22

---

**Company:** Nokia  
**Project:** GSM  
**Title:** Method for locking to the user's card in a portable radio telephone  
**Country:** GB  
**Application number:** 88306554.2  
**Patent number:** GB 0301740  
**Standard(s):** GSM 02.22

---

**Company:** Nokia  
**Project:** GSM  
**Title:** Method for locking to the user's card in a portable radio telephone  
**Country:** IT  
**Application number:** 88306554.2  
**Patent number:** IT 0301740  
**Standard(s):** GSM 02.22

---

**Company:** Nokia  
**Project:** GSM  
**Title:** Method for locking to the user's card in a portable radio telephone  
**Country:** JP  
**Application number:** 187037/1988  
**Standard(s):** GSM 02.22

---

**Company:** Nokia  
**Project:** GSM  
**Title:** Method for locking to the user's card in a portable radio telephone  
**Country:** NO  
**Application number:** 88.3330  
**Patent number:** NO 173679  
**Standard(s):** GSM 02.22

---

**Company:** Nokia  
**Project:** GSM  
**Title:** Method for locking to the user's card in a portable radio telephone  
**Country:** PT  
**Application number:** 88126  
**Patent number:** PT 88126  
**Standard(s):** GSM 02.22

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**Company:** Nokia  
**Project:** GSM  
**Title:** Method for locking to the user's card in a portable radio telephone  
**Country:** SE  
**Application number:** 88306554.2  
**Patent number:** SE 0301740  
**Standard(s):** GSM 02.22

---

**Company:** Nokia  
**Project:** GSM  
**Title:** Method for locking to the user's card in a portable radio telephone  
**Country:** US  
**Application number:** 221079  
**Patent number:** US 4868846  
**Standard(s):** GSM 02.22

---

**Company:** Nokia  
**Project:** GSM  
**Title:** Packet Radio System And Methods For A Protocol-Independent Routing Of A Data Packet In Packet Radio Networks  
**Country:** AU  
**Application number:** AU 43928/96  
**Patent number:** AU 9643928  
**Standard(s):** GSM 03.60

---

**Company:** Nokia  
**Project:** GSM  
**Title:** Packet Radio System And Methods For A Protocol-Independent Routing Of A Data Packet In Packet Radio Networks  
**Country:** EPC  
**Application number:** EP 96900336.7  
**Patent number:** EP 804844  
**Countries applicable:** AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE  
**Standard(s):** GSM 03.60

---

**Company:** Nokia  
**Project:** GSM  
**Title:** Packet Radio System And Methods For A Protocol-Independent Routing Of A Data Packet In Packet Radio Networks  
**Country:** FI  
**Application number:** FI 950116  
**Patent number:** FI 98586  
**Countries applicable:** FI  
**Standard(s):** GSM 03.60

---

**Company:** Nokia  
**Project:** GSM  
**Title:** Packet Radio System And Methods For A Protocol-Independent Routing Of A Data Packet In Packet Radio Networks  
**Country:** PCT  
**Application number:** PCT/FI96/00019  
**Patent number:** WO 9621983  
**Standard(s):** GSM 03.60

---

**Company:** Nokia  
**Project:** GSM  
**Title:** Predictive split-matrix quantization of spectral parameters for efficient coding of speech  
**Country:** PCT  
**Application number:** PCT/CA96/00202  
**Patent number:** WO 9631873  
**Standard(s):** GSM 6.60

---

<b>Company:</b>	Nokia
<b>Project:</b>	GSM
<b>Title:</b>	Speech synthesiser
<b>Country:</b>	PCT
<b>Application number:</b>	PCT/GB96/01428
<b>Patent number:</b>	WO 9700516
<b>Standard(s):</b>	GSM 6.60

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<b>Company:</b>	Nokia
<b>Project:</b>	GSM
<b>Title:</b>	System for transmitting packet data in digital cellular time division multiple access (TDMA) air interface
<b>Country:</b>	AU
<b>Application number:</b>	17857/95
<b>Standard(s):</b>	GSM 03.64

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<b>Company:</b>	Nokia
<b>Project:</b>	GSM
<b>Title:</b>	System for transmitting packet data in digital cellular time division multiple access (TDMA) air interface
<b>Country:</b>	CN
<b>Application number:</b>	95105074.5
<b>Standard(s):</b>	GSM 03.64

---

<b>Company:</b>	Nokia
<b>Project:</b>	GSM
<b>Title:</b>	System for transmitting packet data in digital cellular time division multiple access (TDMA) air interface
<b>Country:</b>	EPC
<b>Application number:</b>	95303040.0
<b>Countries applicable:</b>	NL, IT, AT, FR, SE, CH, DE, GB
<b>Standard(s):</b>	GSM 03.64

---

<b>Company:</b>	Nokia
<b>Project:</b>	GSM
<b>Title:</b>	System for transmitting packet data in digital cellular time division multiple access (TDMA) air interface
<b>Country:</b>	FI
<b>Application number:</b>	942038
<b>Patent number:</b>	FI 98426
<b>Standard(s):</b>	GSM 03.64

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<b>Company:</b>	Nokia
<b>Project:</b>	GSM
<b>Title:</b>	System for transmitting packet data in digital cellular time division multiple access (TDMA) air interface
<b>Country:</b>	US
<b>Application number:</b>	431559
<b>Patent number:</b>	US 5640395
<b>Standard(s):</b>	GSM 03.64

---

<b>Company:</b>	Nokia
<b>Project:</b>	GSM
<b>Title:</b>	Telecommunications system
<b>Country:</b>	AU
<b>Application number:</b>	42618/96
<b>Standard(s):</b>	GSM 05.02

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<b>Company:</b>	Nokia
<b>Project:</b>	GSM
<b>Title:</b>	Telecommunications system
<b>Country:</b>	DE
<b>Application number:</b>	19546577.6
<b>Standard(s):</b>	GSM 05.02

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**Company:** Nokia  
**Project:** GSM  
**Title:** Telecommunications system  
**Country:** FI  
**Application number:** 950419  
**Patent number:** FI 99066  
**Standard(s):** GSM 05.02

---

**Company:** Nokia  
**Project:** GSM  
**Title:** Telecommunications system  
**Country:** FR  
**Application number:** 9514959  
**Patent number:** FR 2730117  
**Standard(s):** GSM 05.02

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**Company:** Nokia  
**Project:** GSM  
**Title:** Telecommunications system  
**Country:** GB  
**Application number:** 9525966.9  
**Standard(s):** GSM 05.02

---

**Company:** Nokia  
**Project:** GSM  
**Title:** Telecommunications system  
**Country:** PCT  
**Application number:** PCT/FI95/00687  
**Patent number:** WO 9624200  
**Standard(s):** GSM 05.02

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**Company:** Nokia  
**Project:** GSM  
**Title:** Telecommunications system  
**Country:** SE  
**Application number:** 9504541-5  
**Standard(s):** GSM 05.02

---

**Company:** Nokia  
**Project:** GSM  
**Title:** Vector adaptive predictive coder for speech and audio  
**Country:** CA  
**Patent number:** CA 1336454  
**Standard(s):** GSM 6.60, GSM 06.20

---

**Company:** Nokia  
**Project:** GSM  
**Title:** Vector adaptive predictive coder for speech and audio  
**Country:** EPC  
**Application number:** 92108904.1  
**Countries applicable:** DE, FR, GB, IT  
**Standard(s):** GSM 6.60, GSM 06.20

---

**Company:** Nokia  
**Project:** GSM  
**Title:** Vector adaptive predictive coder for speech and audio  
**Country:** JP  
**Application number:** 84973/1988  
**Standard(s):** GSM 6.60, GSM 06.20

---

**Company:** Nokia  
**Project:** GSM  
**Title:** Vector adaptive predictive coder for speech and audio  
**Country:** US  
**Application number:** 35615  
**Patent number:** US 4969192  
**Standard(s):** GSM 6.60, GSM 06.20

---

**Company:** Nokia Corporation  
**Project:** GSM  
**Title:** A HIGH-SPEED DATA TRANSMISSION IN A DIGITAL MOBILE COMMUNICATION SYSTEM  
**Country:** AU  
**Application number:** 35239/95  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** A HIGH-SPEED DATA TRANSMISSION IN A DIGITAL MOBILE COMMUNICATION SYSTEM  
**Country:** CA  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** A HIGH-SPEED DATA TRANSMISSION IN A DIGITAL MOBILE COMMUNICATION SYSTEM  
**Country:** CN  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** A HIGH-SPEED DATA TRANSMISSION IN A DIGITAL MOBILE COMMUNICATION SYSTEM  
**Country:** EPO  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** A HIGH-SPEED DATA TRANSMISSION IN A DIGITAL MOBILE COMMUNICATION SYSTEM  
**Country:** FI  
**Application number:** 944487  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** A HIGH-SPEED DATA TRANSMISSION IN A DIGITAL MOBILE COMMUNICATION SYSTEM  
**Country:** FI  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** A HIGH-SPEED DATA TRANSMISSION IN A DIGITAL MOBILE COMMUNICATION SYSTEM  
**Country:** HK  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** A HIGH-SPEED DATA TRANSMISSION IN A DIGITAL MOBILE COMMUNICATION SYSTEM  
**Country:** JP  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** A HIGH-SPEED DATA TRANSMISSION IN A DIGITAL MOBILE COMMUNICATION SYSTEM  
**Country:** KR  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** A HIGH-SPEED DATA TRANSMISSION IN A DIGITAL MOBILE COMMUNICATION SYSTEM  
**Country:** SG  
**Application number:** 9701460-9  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** A HIGH-SPEED DATA TRANSMISSION IN A DIGITAL MOBILE COMMUNICATION SYSTEM  
**Country:** US  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** A HIGH-SPEED DATA TRANSMISSION IN A DIGITAL MOBILE COMMUNICATION SYSTEM  
**Country:** US  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** A METHOD FOR INDICATING A MULTI-SLOT CHANNEL IN A TDMA RADIO SYSTEM  
**Country:** AT  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** A METHOD FOR INDICATING A MULTI-SLOT CHANNEL IN A TDMA RADIO SYSTEM  
**Country:** AU  
**Application number:** 39849/95  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** A METHOD FOR INDICATING A MULTI-SLOT CHANNEL IN A TDMA RADIO SYSTEM  
**Country:** CN  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** A METHOD FOR INDICATING A MULTI-SLOT CHANNEL IN A TDMA RADIO SYSTEM  
**Country:** DE  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** A METHOD FOR INDICATING A MULTI-SLOT CHANNEL IN A TDMA RADIO SYSTEM  
**Country:** ES  
**Application number:** P9502237  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** A METHOD FOR INDICATING A MULTI-SLOT CHANNEL IN A TDMA RADIO SYSTEM  
**Country:** FI  
**Application number:** 945540  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** A METHOD FOR INDICATING A MULTI-SLOT CHANNEL IN A TDMA RADIO SYSTEM  
**Country:** FR  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** A METHOD FOR INDICATING A MULTI-SLOT CHANNEL IN A TDMA RADIO SYSTEM  
**Country:** GB  
**Application number:** 9522534,8  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** A METHOD FOR INDICATING A MULTI-SLOT CHANNEL IN A TDMA RADIO SYSTEM  
**Country:** JP  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** A METHOD FOR INDICATING A MULTI-SLOT CHANNEL IN A TDMA RADIO SYSTEM  
**Country:** KR  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** A METHOD FOR INDICATING A MULTI-SLOT CHANNEL IN A TDMA RADIO SYSTEM  
**Country:** NL  
**Application number:** 1001744  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** A METHOD FOR INDICATING A MULTI-SLOT CHANNEL IN A TDMA RADIO SYSTEM  
**Country:** SE  
**Application number:** 9504067-1  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** A METHOD FOR INDICATING A MULTI-SLOT CHANNEL IN A TDMA RADIO SYSTEM  
**Country:** US  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** A METHOD OF SETTING THE PERSISTENCE OF A MOBILE STATION IN A CELLULAR MOBILE RADIO NETWORK  
**Country:** AU  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** A METHOD OF SETTING THE PERSISTENCE OF A MOBILE STATION IN A CELLULAR MOBILE RADIO NETWORK  
**Country:** BR  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** A METHOD OF SETTING THE PERSISTENCE OF A MOBILE STATION IN A CELLULAR MOBILE RADIO NETWORK  
**Country:** CN  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** A METHOD OF SETTING THE PERSISTENCE OF A MOBILE STATION IN A CELLULAR MOBILE RADIO NETWORK  
**Country:** DE  
**Application number:** 19648077,9  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** A METHOD OF SETTING THE PERSISTENCE OF A MOBILE STATION IN A CELLULAR MOBILE RADIO NETWORK  
**Country:** EPO  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** A METHOD OF SETTING THE PERSISTENCE OF A MOBILE STATION IN A CELLULAR MOBILE RADIO NETWORK  
**Country:** JP  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** A METHOD OF SETTING THE PERSISTENCE OF A MOBILE STATION IN A CELLULAR MOBILE RADIO NETWORK  
**Country:** RU  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** A METHOD OF SETTING THE PERSISTENCE OF A MOBILE STATION IN A CELLULAR MOBILE RADIO NETWORK  
**Country:** US  
**Application number:** 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:** 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:** AT  
**Application number:** A935/96  
**Patent number:** 405346  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company:** 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:** AU  
**Application number:** 62260  
**Patent number:** 701220  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company:** 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:** BT  
**Application number:** PI9608734-0  
**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:** 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:** CA  
**Application number:** 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:** 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:** CN  
**Application number:** 96195176,1  
**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:** 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:** DE  
**Application number:** 19617630,1  
**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:** 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:** ES  
**Application number:** 9601195  
**Patent number:** 9601195  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company:** 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:** FI  
**Application number:** 953252  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company:** 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:** FR  
**Application number:** 9607841  
**Patent number:** 2736186  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company:** 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:** GB  
**Application number:** 9612833,5  
**Patent number:** 2303034  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company:** 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:** IT  
**Application number:** MI96A/001200  
**Patent number:** 1283133  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company:** 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:** JP  
**Application number:** 9-504848  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company:** 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:** MX  
**Application number:** 9710357  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company:** 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:** RU  
**Application number:** PCT/FI96/00369  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company:** 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:** SE  
**Application number:** 9602230-6  
**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:** 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:** US  
**Application number:** 08/672932  
**Patent number:** 5835889  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company:** Nokia Corporation  
**Project:** GSM  
**Title:** A multi-fonction telephone apparatus  
**Country:** EPO  
**Application number:** 91304533,2  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** A multi-function telephone apparatus  
**Country:** FI  
**Application number:** 902504  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** ALGEBRAICH CODEBOOK WITH SIGNAL-SELECTED PULSE AMPLITUDE/POSITION COMBINATIONS FOR FAST CODING OF SPEECH  
**Country:** AR  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** ALGEBRAICH CODEBOOK WITH SIGNAL-SELECTED PULSE AMPLITUDE/POSITION COMBINATIONS FOR FAST CODING OF SPEECH  
**Country:** AU  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** ALGEBRAICH CODEBOOK WITH SIGNAL-SELECTED PULSE AMPLITUDE/POSITION COMBINATIONS FOR FAST CODING OF SPEECH  
**Country:** BR  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** ALGEBRAICH CODEBOOK WITH SIGNAL-SELECTED PULSE AMPLITUDE/POSITION COMBINATIONS FOR FAST CODING OF SPEECH  
**Country:** CA  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** ALGEBRAICH CODEBOOK WITH SIGNAL-SELECTED PULSE AMPLITUDE/POSITION COMBINATIONS FOR FAST CODING OF SPEECH  
**Country:** CN  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** ALGEBRAICH CODEBOOK WITH SIGNAL-SELECTED PULSE AMPLITUDE/POSITION COMBINATIONS FOR FAST CODING OF SPEECH  
**Country:** DE  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** ALGEBRAICH CODEBOOK WITH SIGNAL-SELECTED PULSE AMPLITUDE/POSITION COMBINATIONS FOR FAST CODING OF SPEECH  
**Country:** EPO  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** ALGEBRAICH CODEBOOK WITH SIGNAL-SELECTED PULSE AMPLITUDE/POSITION COMBINATIONS FOR FAST CODING OF SPEECH  
**Country:** ES  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** ALGEBRAICH CODEBOOK WITH SIGNAL-SELECTED PULSE AMPLITUDE/POSITION COMBINATIONS FOR FAST CODING OF SPEECH  
**Country:** FI  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** ALGEBRAICH CODEBOOK WITH SIGNAL-SELECTED PULSE AMPLITUDE/POSITION COMBINATIONS FOR FAST CODING OF SPEECH  
**Country:** FR  
**Application number:** 9601426  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** ALGEBRAICH CODEBOOK WITH SIGNAL-SELECTED PULSE AMPLITUDE/POSITION COMBINATIONS FOR FAST CODING OF SPEECH  
**Country:** GB  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** ALGEBRAICH CODEBOOK WITH SIGNAL-SELECTED PULSE AMPLITUDE/POSITION COMBINATIONS FOR FAST CODING OF SPEECH  
**Country:** HK  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** ALGEBRAICH CODEBOOK WITH SIGNAL-SELECTED PULSE AMPLITUDE/POSITION COMBINATIONS FOR FAST CODING OF SPEECH  
**Country:** IN  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** ALGEBRAICH CODEBOOK WITH SIGNAL-SELECTED PULSE AMPLITUDE/POSITION COMBINATIONS FOR FAST CODING OF SPEECH  
**Country:** IT  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** ALGEBRAICH CODEBOOK WITH SIGNAL-SELECTED PULSE AMPLITUDE/POSITION COMBINATIONS FOR FAST CODING OF SPEECH  
**Country:** JP  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** ALGEBRAICH CODEBOOK WITH SIGNAL-SELECTED PULSE AMPLITUDE/POSITION COMBINATIONS FOR FAST CODING OF SPEECH  
**Country:** KR  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** ALGEBRAICH CODEBOOK WITH SIGNAL-SELECTED PULSE AMPLITUDE/POSITION COMBINATIONS FOR FAST CODING OF SPEECH  
**Country:** MX  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** ALGEBRAICH CODEBOOK WITH SIGNAL-SELECTED PULSE AMPLITUDE/POSITION COMBINATIONS FOR FAST CODING OF SPEECH  
**Country:** MY  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** ALGEBRAICH CODEBOOK WITH SIGNAL-SELECTED PULSE AMPLITUDE/POSITION COMBINATIONS FOR FAST CODING OF SPEECH  
**Country:** NO  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** ALGEBRAICH CODEBOOK WITH SIGNAL-SELECTED PULSE AMPLITUDE/POSITION COMBINATIONS FOR FAST CODING OF SPEECH  
**Country:** RU  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** ALGEBRAICH CODEBOOK WITH SIGNAL-SELECTED PULSE AMPLITUDE/POSITION COMBINATIONS FOR FAST CODING OF SPEECH  
**Country:** SE  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** ALGEBRAICH CODEBOOK WITH SIGNAL-SELECTED PULSE AMPLITUDE/POSITION COMBINATIONS FOR FAST CODING OF SPEECH  
**Country:** US  
**Application number:** 508801  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** ALGEBRAICH CODEBOOK WITH SIGNAL-SELECTED PULSE AMPLITUDE/POSITION COMBINATIONS FOR FAST CODING OF SPEECH  
**Country:** ZA  
**Application number:** 96/0852  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** DATA TRANSMISSION METHOD IN A TDMA MOBILE COMMUNICATION SYSTEM  
**Country:** AU  
**Application number:** 35240/95  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** DATA TRANSMISSION METHOD IN A TDMA MOBILE COMMUNICATION SYSTEM  
**Country:** CA  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** DATA TRANSMISSION METHOD IN A TDMA MOBILE COMMUNICATION SYSTEM  
**Country:** CN  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** DATA TRANSMISSION METHOD IN A TDMA MOBILE COMMUNICATION SYSTEM  
**Country:** EPO  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** DATA TRANSMISSION METHOD IN A TDMA MOBILE COMMUNICATION SYSTEM  
**Country:** FI  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** DATA TRANSMISSION METHOD IN A TDMA MOBILE COMMUNICATION SYSTEM  
**Country:** FI  
**Application number:** 944488  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** DATA TRANSMISSION METHOD IN A TDMA MOBILE COMMUNICATION SYSTEM  
**Country:** HK  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** DATA TRANSMISSION METHOD IN A TDMA MOBILE COMMUNICATION SYSTEM  
**Country:** JP  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** DATA TRANSMISSION METHOD IN A TDMA MOBILE COMMUNICATION SYSTEM  
**Country:** KR  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** DATA TRANSMISSION METHOD IN A TDMA MOBILE COMMUNICATION SYSTEM  
**Country:** SG  
**Application number:** 9701451-8  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** DATA TRANSMISSION METHOD IN A TDMA MOBILE COMMUNICATION SYSTEM  
**Country:** US  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** DATA TRANSMISSION METHOD IN A TDMA MOBILE COMMUNICATION SYSTEM  
**Country:** US  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** DATA TRANSMISSION SYSTEM WITH SLIDING-WINDOW DATA FLOW CONTROL  
**Country:** AU  
**Application number:** 5650696  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** DATA TRANSMISSION SYSTEM WITH SLIDING-WINDOW DATA FLOW CONTROL  
**Country:** CA  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** DATA TRANSMISSION SYSTEM WITH SLIDING-WINDOW DATA FLOW CONTROL  
**Country:** CN  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** DATA TRANSMISSION SYSTEM WITH SLIDING-WINDOW DATA FLOW CONTROL  
**Country:** EPO  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** DATA TRANSMISSION SYSTEM WITH SLIDING-WINDOW DATA FLOW CONTROL  
**Country:** FI  
**Application number:** 952256  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** DATA TRANSMISSION SYSTEM WITH SLIDING-WINDOW DATA FLOW CONTROL  
**Country:** HK  
**Application number:** 98101125,9  
**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:** Nokia Corporation  
**Project:** GSM  
**Title:** DATA TRANSMISSION SYSTEM WITH SLIDING-WINDOW DATA FLOW CONTROL  
**Country:** JP  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** DATA TRANSMISSION SYSTEM WITH SLIDING-WINDOW DATA FLOW CONTROL  
**Country:** KR  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** DATA TRANSMISSION SYSTEM WITH SLIDING-WINDOW DATA FLOW CONTROL  
**Country:** SG  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** DATA TRANSMISSION SYSTEM WITH SLIDING-WINDOW DATA FLOW CONTROL  
**Country:** US  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** DATA TRANSMISSION SYSTEM WITH SLIDING-WINDOW DATA FLOW CONTROL  
**Country:** US  
**Application number:** 765067  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** DEPTH-FIRST ALGEBRAIC CODEBOOK SEARCH FOR FAST CODING OF SPEECH  
**Country:** AR  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** DEPTH-FIRST ALGEBRAIC CODEBOOK SEARCH FOR FAST CODING OF SPEECH  
**Country:** AU  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** DEPTH-FIRST ALGEBRAICH CODEBOOK SEARCH FOR FAST CODING OF SPEECH  
**Country:** BR  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** DEPTH-FIRST ALGEBRAICH CODEBOOK SEARCH FOR FAST CODING OF SPEECH  
**Country:** CA  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** DEPTH-FIRST ALGEBRAICH CODEBOOK SEARCH FOR FAST CODING OF SPEECH  
**Country:** CN  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** DEPTH-FIRST ALGEBRAICH CODEBOOK SEARCH FOR FAST CODING OF SPEECH  
**Country:** DE  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** DEPTH-FIRST ALGEBRAICH CODEBOOK SEARCH FOR FAST CODING OF SPEECH  
**Country:** EPO  
**Application number:** 96903854,6  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** DEPTH-FIRST ALGEBRAICH CODEBOOK SEARCH FOR FAST CODING OF SPEECH  
**Country:** ES  
**Application number:** 9650035  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** DEPTH-FIRST ALGEBRAICH CODEBOOK SEARCH FOR FAST CODING OF SPEECH  
**Country:** FR  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** DEPTH-FIRST ALGEBRAICH CODEBOOK SEARCH FOR FAST CODING OF SPEECH  
**Country:** GB  
**Application number:** 9605123  
**Patent number:** 2299001  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company:** Nokia Corporation  
**Project:** GSM  
**Title:** DEPTH-FIRST ALGEBRAICH CODEBOOK SEARCH FOR FAST CODING OF SPEECH  
**Country:** HK  
**Application number:** 98100818,3  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** DEPTH-FIRST ALGEBRAICH CODEBOOK SEARCH FOR FAST CODING OF SPEECH  
**Country:** IN  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** DEPTH-FIRST ALGEBRAICH CODEBOOK SEARCH FOR FAST CODING OF SPEECH  
**Country:** IT  
**Application number:** TO96A000174  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** DEPTH-FIRST ALGEBRAICH CODEBOOK SEARCH FOR FAST CODING OF SPEECH  
**Country:** JP  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** DEPTH-FIRST ALGEBRAICH CODEBOOK SEARCH FOR FAST CODING OF SPEECH  
**Country:** KR  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** DEPTH-FIRST ALGEBRAICH CODEBOOK SEARCH FOR FAST CODING OF SPEECH  
**Country:** MX  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** DEPTH-FIRST ALGEBRAICH CODEBOOK SEARCH FOR FAST CODING OF SPEECH  
**Country:** MY  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** DEPTH-FIRST ALGEBRAICH CODEBOOK SEARCH FOR FAST CODING OF SPEECH  
**Country:** RU  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** DEPTH-FIRST ALGEBRAICH CODEBOOK SEARCH FOR FAST CODING OF SPEECH  
**Country:** SE  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** DEPTH-FIRST ALGEBRAICH CODEBOOK SEARCH FOR FAST CODING OF SPEECH  
**Country:** US  
**Application number:** 509525  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** DYNAMIC ALLOCATION OF RADIO CAPACITY IN A TDMA SYSTEM  
**Country:** AT  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** DYNAMIC ALLOCATION OF RADIO CAPACITY IN A TDMA SYSTEM  
**Country:** AU  
**Application number:** 43927/96  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** DYNAMIC ALLOCATION OF RADIO CAPACITY IN A TDMA SYSTEM  
**Country:** CN  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** DYNAMIC ALLOCATION OF RADIO CAPACITY IN A TDMA SYSTEM  
**Country:** DE  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** DYNAMIC ALLOCATION OF RADIO CAPACITY IN A TDMA SYSTEM  
**Country:** FI  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** DYNAMIC ALLOCATION OF RADIO CAPACITY IN A TDMA SYSTEM  
**Country:** FR  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** DYNAMIC ALLOCATION OF RADIO CAPACITY IN A TDMA SYSTEM  
**Country:** GB  
**Application number:** 9600378,5  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** DYNAMIC ALLOCATION OF RADIO CAPACITY IN A TDMA SYSTEM  
**Country:** IT  
**Application number:** MI96A000017  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** DYNAMIC ALLOCATION OF RADIO CAPACITY IN A TDMA SYSTEM  
**Country:** JP  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** DYNAMIC ALLOCATION OF RADIO CAPACITY IN A TDMA SYSTEM  
**Country:** KR  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** DYNAMIC ALLOCATION OF RADIO CAPACITY IN A TDMA SYSTEM  
**Country:** NL  
**Application number:** 1002023  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** DYNAMIC ALLOCATION OF RADIO CAPACITY IN A TDMA SYSTEM  
**Country:** SE  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** DYNAMIC ALLOCATION OF RADIO CAPACITY IN A TDMA SYSTEM  
**Country:** US  
**Application number:** 582915  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** DYNAMIC CODEBOOK FOR EFFICIENT SPEECH CODING BASED ON ALGEBRAIC CODES  
**Country:** CA  
**Application number:** 2010830  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** DYNAMIC CODEBOOK FOR EFFICIENT SPEECH CODING BASED ON ALGEBRAIC CODES  
**Country:** EPO  
**Application number:** 90915956,8  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** DYNAMIC CODEBOOK FOR EFFICIENT SPEECH CODING BASED ON ALGEBRAIC CODES  
**Country:** US  
**Application number:** 927528  
**Patent number:** 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.

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**Company:** Nokia Corporation  
**Project:** GSM  
**Title:** DYNAMIC CODEBOOK FOR EFFICIENT SPEECH CODING BASED ON ALGEBRAIC CODES  
**Country:** US  
**Application number:** 438703  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** FACSIMILE TRANSMISSION IN A MOBILE COMMUNICATION SYSTEM  
**Country:** AU  
**Application number:** 4833496  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** FACSIMILE TRANSMISSION IN A MOBILE COMMUNICATION SYSTEM  
**Country:** CA  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** FACSIMILE TRANSMISSION IN A MOBILE COMMUNICATION SYSTEM  
**Country:** CN  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** FACSIMILE TRANSMISSION IN A MOBILE COMMUNICATION SYSTEM  
**Country:** EPO  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** FACSIMILE TRANSMISSION IN A MOBILE COMMUNICATION SYSTEM  
**Country:** FI  
**Application number:** 951020  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** FACSIMILE TRANSMISSION IN A MOBILE COMMUNICATION SYSTEM  
**Country:** HK  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** FACSIMILE TRANSMISSION IN A MOBILE COMMUNICATION SYSTEM  
**Country:** JP  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** FACSIMILE TRANSMISSION IN A MOBILE COMMUNICATION SYSTEM  
**Country:** KR  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** FACSIMILE TRANSMISSION IN A MOBILE COMMUNICATION SYSTEM  
**Country:** NO  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** FACSIMILE TRANSMISSION IN A MOBILE COMMUNICATION SYSTEM  
**Country:** SG  
**Application number:** 9611824-5  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** FACSIMILE TRANSMISSION IN A MOBILE COMMUNICATION SYSTEM  
**Country:** US  
**Application number:** 08/732467  
**Patent number:** 5805301  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company:** Nokia Corporation  
**Project:** GSM  
**Title:** HIGH-SPEED DATA TRANSMISSION IN MOBILE COMMUNICATION NETWORKS  
**Country:** AU  
**Application number:** 48332/96  
**Patent number:** 703855  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company:** Nokia Corporation  
**Project:** GSM  
**Title:** HIGH-SPEED DATA TRANSMISSION IN MOBILE COMMUNICATION NETWORKS  
**Country:** CA  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** HIGH-SPEED DATA TRANSMISSION IN MOBILE COMMUNICATION NETWORKS  
**Country:** CN  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** HIGH-SPEED DATA TRANSMISSION IN MOBILE COMMUNICATION NETWORKS  
**Country:** EPO  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** HIGH-SPEED DATA TRANSMISSION IN MOBILE COMMUNICATION NETWORKS  
**Country:** FI  
**Application number:** 951019  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** HIGH-SPEED DATA TRANSMISSION IN MOBILE COMMUNICATION NETWORKS  
**Country:** HK  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** HIGH-SPEED DATA TRANSMISSION IN MOBILE COMMUNICATION NETWORKS  
**Country:** JP  
**Application number:** 8-526637  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.



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**Company:** Nokia Corporation  
**Project:** GSM  
**Title:** HIGH-SPEED DATA TRANSMISSION IN MOBILE COMMUNICATION NETWORKS  
**Country:** KR  
**Application number:** 706020/1997  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company:** Nokia Corporation  
**Project:** GSM  
**Title:** HIGH-SPEED DATA TRANSMISSION IN MOBILE COMMUNICATION NETWORKS  
**Country:** NO  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** HIGH-SPEED DATA TRANSMISSION IN MOBILE COMMUNICATION NETWORKS  
**Country:** SG  
**Application number:** 9705652-7  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** HIGH-SPEED DATA TRANSMISSION IN MOBILE COMMUNICATION NETWORKS  
**Country:** US  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** HIGH-SPEED DATA TRANSMISSION IN MOBILE COMMUNICATION NETWORKS  
**Country:** AU  
**Application number:** 41186/96  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** HIGH-SPEED DATA TRANSMISSION IN MOBILE COMMUNICATION NETWORKS  
**Country:** CA  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** HIGH-SPEED DATA TRANSMISSION IN MOBILE COMMUNICATION NETWORKS  
**Country:** CN  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** HIGH-SPEED DATA TRANSMISSION IN MOBILE COMMUNICATION NETWORKS  
**Country:** EPO  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** HIGH-SPEED DATA TRANSMISSION IN MOBILE COMMUNICATION NETWORKS  
**Country:** FI  
**Application number:** 945817  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** HIGH-SPEED DATA TRANSMISSION IN MOBILE COMMUNICATION NETWORKS  
**Country:** HK  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** HIGH-SPEED DATA TRANSMISSION IN MOBILE COMMUNICATION NETWORKS  
**Country:** JP  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** HIGH-SPEED DATA TRANSMISSION IN MOBILE COMMUNICATION NETWORKS  
**Country:** NO  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** HIGH-SPEED DATA TRANSMISSION IN MOBILE COMMUNICATION NETWORKS  
**Country:** SG  
**Application number:** 9702660-3  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** HIGH-SPEED DATA TRANSMISSION IN MOBILE COMMUNICATION NETWORKS  
**Country:** US  
**Application number:** 08/860426  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** IMPROVING SECURITY OF PACKET-MODE TRANSMISSION IN A MOBILE COMMUNICATION SYSTEM  
**Country:** AU  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** IMPROVING SECURITY OF PACKET-MODE TRANSMISSION IN A MOBILE COMMUNICATION SYSTEM  
**Country:** CA  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** IMPROVING SECURITY OF PACKET-MODE TRANSMISSION IN A MOBILE COMMUNICATION SYSTEM  
**Country:** CN  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** IMPROVING SECURITY OF PACKET-MODE TRANSMISSION IN A MOBILE COMMUNICATION SYSTEM  
**Country:** EPO  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** IMPROVING SECURITY OF PACKET-MODE TRANSMISSION IN A MOBILE COMMUNICATION SYSTEM  
**Country:** FI  
**Application number:** 960996  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** IMPROVING SECURITY OF PACKET-MODE TRANSMISSION IN A MOBILE COMMUNICATION SYSTEM  
**Country:** HK  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** IMPROVING SECURITY OF PACKET-MODE TRANSMISSION IN A MOBILE COMMUNICATION SYSTEM  
**Country:** IN  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** IMPROVING SECURITY OF PACKET-MODE TRANSMISSION IN A MOBILE COMMUNICATION SYSTEM  
**Country:** JP  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** IMPROVING SECURITY OF PACKET-MODE TRANSMISSION IN A MOBILE COMMUNICATION SYSTEM  
**Country:** PH  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** IMPROVING SECURITY OF PACKET-MODE TRANSMISSION IN A MOBILE COMMUNICATION SYSTEM  
**Country:** TH  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** IMPROVING SECURITY OF PACKET-MODE TRANSMISSION IN A MOBILE COMMUNICATION SYSTEM  
**Country:** US  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** LOCATION UPDATING FOR A PACKET-SWITCHED DATA SERVICE IN A MOBILE COMMUNICATION SYSTEM  
**Country:** AU  
**Application number:** 2778795  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** LOCATION UPDATING FOR A PACKET-SWITCHED DATA SERVICE IN A MOBILE COMMUNICATION SYSTEM  
**Country:** CN  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** LOCATION UPDATING FOR A PACKET-SWITCHED DATA SERVICE IN A MOBILE COMMUNICATION SYSTEM  
**Country:** EPO  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** LOCATION UPDATING FOR A PACKET-SWITCHED DATA SERVICE IN A MOBILE COMMUNICATION SYSTEM  
**Country:** FI  
**Application number:** 941652  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** LOCATION UPDATING FOR A PACKET-SWITCHED DATA SERVICE IN A MOBILE COMMUNICATION SYSTEM  
**Country:** HK  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** LOCATION UPDATING FOR A PACKET-SWITCHED DATA SERVICE IN A MOBILE COMMUNICATION SYSTEM  
**Country:** JP  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** LOCATION UPDATING FOR A PACKET-SWITCHED DATA SERVICE IN A MOBILE COMMUNICATION SYSTEM  
**Country:** US  
**Application number:** 718512  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD AND APPARATUS FOR SPEECH TRANSMISSION IN A MOBILE COMMUNICATIONS SYSTEM  
**Country:** AU  
**Application number:** 28887/95  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD AND APPARATUS FOR SPEECH TRANSMISSION IN A MOBILE COMMUNICATIONS SYSTEM  
**Country:** CN  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD AND APPARATUS FOR SPEECH TRANSMISSION IN A MOBILE COMMUNICATIONS SYSTEM  
**Country:** EPO  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD AND APPARATUS FOR SPEECH TRANSMISSION IN A MOBILE COMMUNICATIONS SYSTEM  
**Country:** FI  
**Application number:** 943302  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD AND APPARATUS FOR SPEECH TRANSMISSION IN A MOBILE COMMUNICATIONS SYSTEM  
**Country:** JP  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD AND APPARATUS FOR SPEECH TRANSMISSION IN A MOBILE COMMUNICATIONS SYSTEM  
**Country:** NO  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD AND APPARATUS FOR SPEECH TRANSMISSION IN A MOBILE COMMUNICATIONS SYSTEM  
**Country:** US  
**Application number:** 08/612934  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD AND ARRANGEMENT FOR EFFECTIVE TRANSMISSION POWER CONTROL AND/OR HANDOVER OF A MOBILE STATION  
**Country:** AU  
**Application number:** 24104/95  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD AND ARRANGEMENT FOR EFFECTIVE TRANSMISSION POWER CONTROL AND/OR HANDOVER OF A MOBILE STATION  
**Country:** CN  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD AND ARRANGEMENT FOR EFFECTIVE TRANSMISSION POWER CONTROL AND/OR HANDOVER OF A MOBILE STATION  
**Country:** EPO  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD AND ARRANGEMENT FOR EFFECTIVE TRANSMISSION POWER CONTROL AND/OR HANDOVER OF A MOBILE STATION  
**Country:** FI  
**Application number:** 942191  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD AND ARRANGEMENT FOR EFFECTIVE TRANSMISSION POWER CONTROL AND/OR HANDOVER OF A MOBILE STATION  
**Country:** JP  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD AND ARRANGEMENT FOR EFFECTIVE TRANSMISSION POWER CONTROL AND/OR HANDOVER OF A MOBILE STATION  
**Country:** NO  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD AND ARRANGEMENT FOR EFFECTIVE TRANSMISSION POWER CONTROL AND/OR HANDOVER OF A MOBILE STATION  
**Country:** US  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD AND ARRANGEMENT FOR EFFECTIVE TRANSMISSION POWER CONTROL AND/OR HANDOVER OF A MOBILE STATION  
**Country:** US  
**Application number:** 08/591557CPA  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD AND ARRANGEMENT FOR HIGH-SPEED DATA TRANSMISSION IN A TDMA MOBILE TELECOMMUNICATIONS SYSTEM  
**Country:** AU  
**Application number:** 2410395  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD AND ARRANGEMENT FOR HIGH-SPEED DATA TRANSMISSION IN A TDMA MOBILE TELECOMMUNICATIONS SYSTEM  
**Country:** CN  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD AND ARRANGEMENT FOR HIGH-SPEED DATA TRANSMISSION IN A TDMA MOBILE TELECOMMUNICATIONS SYSTEM  
**Country:** EPO  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD AND ARRANGEMENT FOR HIGH-SPEED DATA TRANSMISSION IN A TDMA MOBILE TELECOMMUNICATIONS SYSTEM  
**Country:** FI  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD AND ARRANGEMENT FOR HIGH-SPEED DATA TRANSMISSION IN A TDMA MOBILE TELECOMMUNICATIONS SYSTEM  
**Country:** JP  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD AND ARRANGEMENT FOR HIGH-SPEED DATA TRANSMISSION IN A TDMA MOBILE TELECOMMUNICATIONS SYSTEM  
**Country:** NO  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD AND ARRANGEMENT FOR HIGH-SPEED DATA TRANSMISSION IN A TDMA MOBILE TELECOMMUNICATIONS SYSTEM  
**Country:** US  
**Application number:** 08/737447  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD DEVICE AND COMMUNICATION NETWORK FOR AVOIDING COLLISIONS IN RADIO COMMUNICATION  
**Country:** AT  
**Application number:** A1804/96  
**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:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD DEVICE AND COMMUNICATION NETWORK FOR AVOIDING COLLISIONS IN RADIO COMMUNICATION  
**Country:** AU  
**Application number:** 69906/96  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD DEVICE AND COMMUNICATION NETWORK FOR AVOIDING COLLISIONS IN RADIO COMMUNICATION  
**Country:** CN  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD DEVICE AND COMMUNICATION NETWORK FOR AVOIDING COLLISIONS IN RADIO COMMUNICATION  
**Country:** DE  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD DEVICE AND COMMUNICATION NETWORK FOR AVOIDING COLLISIONS IN RADIO COMMUNICATION  
**Country:** FI  
**Application number:** 955030  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD DEVICE AND COMMUNICATION NETWORK FOR AVOIDING COLLISIONS IN RADIO COMMUNICATION  
**Country:** FR  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD DEVICE AND COMMUNICATION NETWORK FOR AVOIDING COLLISIONS IN RADIO COMMUNICATION  
**Country:** GB  
**Application number:** 9622016,5  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD DEVICE AND COMMUNICATION NETWORK FOR AVOIDING COLLISIONS IN RADIO COMMUNICATION  
**Country:** IT  
**Application number:** MI96/A002156  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD DEVICE AND COMMUNICATION NETWORK FOR AVOIDING COLLISIONS IN RADIO COMMUNICATION  
**Country:** JP  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD DEVICE AND COMMUNICATION NETWORK FOR AVOIDING COLLISIONS IN RADIO COMMUNICATION  
**Country:** NL  
**Application number:** 1004295  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD DEVICE AND COMMUNICATION NETWORK FOR AVOIDING COLLISIONS IN RADIO COMMUNICATION  
**Country:** RU  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD DEVICE AND COMMUNICATION NETWORK FOR AVOIDING COLLISIONS IN RADIO COMMUNICATION  
**Country:** SE  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD DEVICE AND COMMUNICATION NETWORK FOR AVOIDING COLLISIONS IN RADIO COMMUNICATION  
**Country:** US  
**Application number:** 08/724909  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** Method for locking to the user's card in a portable radio telephone  
**Country:** DK  
**Application number:** 884219  
**Patent number:** 169158  
**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:** Nokia Corporation  
**Project:** GSM  
**Title:** Method for locking to the user's card in a portable radio telephone  
**Country:** EPO  
**Application number:** 88306554  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** Method for locking to the user's card in a portable radio telephone  
**Country:** FI  
**Application number:** 873309  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** Method for locking to the user's card in a portable radio telephone  
**Country:** JP  
**Application number:** 88187037  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** Method for locking to the user's card in a portable radio telephone  
**Country:** NO  
**Application number:** 883330  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** Method for locking to the user's card in a portable radio telephone  
**Country:** PT  
**Application number:** 88126  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** Method for locking to the user's card in a portable radio telephone  
**Country:** USA  
**Application number:** 221079  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD FOR USING APPLICATIONS IN A MOBILE STATION, A MOBILE STATION AND A SYSTEM FOR EFFECTING PAYMENTS  
**Country:** AU  
**Application number:** 46247/96  
**Patent number:** 696876  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD FOR USING APPLICATIONS IN A MOBILE STATION, A MOBILE STATION AND A SYSTEM FOR EFFECTING PAYMENTS  
**Country:** CN  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD FOR USING APPLICATIONS IN A MOBILE STATION, A MOBILE STATION AND A SYSTEM FOR EFFECTING PAYMENTS  
**Country:** EPO  
**Application number:** 96901820,9  
**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:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD FOR USING APPLICATIONS IN A MOBILE STATION, A MOBILE STATION AND A SYSTEM FOR EFFECTING PAYMENTS  
**Country:** FI  
**Application number:** 950685  
**Patent number:** 99071  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD FOR USING APPLICATIONS IN A MOBILE STATION, A MOBILE STATION AND A SYSTEM FOR EFFECTING PAYMENTS  
**Country:** JP  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD FOR USING APPLICATIONS IN A MOBILE STATION, A MOBILE STATION AND A SYSTEM FOR EFFECTING PAYMENTS  
**Country:** US  
**Application number:** 08/597845  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD TO REALIZE DISCONTINUOUS TRANSMISSION IN A MOBILE PHONE SYSTEM  
**Country:** AU  
**Application number:** 42618/96  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD TO REALIZE DISCONTINUOUS TRANSMISSION IN A MOBILE PHONE SYSTEM  
**Country:** CH  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD TO REALIZE DISCONTINUOUS TRANSMISSION IN A MOBILE PHONE SYSTEM  
**Country:** CN  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD TO REALIZE DISCONTINUOUS TRANSMISSION IN A MOBILE PHONE SYSTEM  
**Country:** DE  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD TO REALIZE DISCONTINUOUS TRANSMISSION IN A MOBILE PHONE SYSTEM  
**Country:** ES  
**Application number:** 9502309  
**Patent number:** 9502309  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD TO REALIZE DISCONTINUOUS TRANSMISSION IN A MOBILE PHONE SYSTEM  
**Country:** FI  
**Application number:** 950419  
**Patent number:** 99066  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD TO REALIZE DISCONTINUOUS TRANSMISSION IN A MOBILE PHONE SYSTEM  
**Country:** FR  
**Application number:** 9514959  
**Patent number:** 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.

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**Company:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD TO REALIZE DISCONTINUOUS TRANSMISSION IN A MOBILE PHONE SYSTEM  
**Country:** GB  
**Application number:** 9525966,9  
**Patent number:** 2297669  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD TO REALIZE DISCONTINUOUS TRANSMISSION IN A MOBILE PHONE SYSTEM  
**Country:** JP  
**Application number:** 8-523281  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD TO REALIZE DISCONTINUOUS TRANSMISSION IN A MOBILE PHONE SYSTEM  
**Country:** NL  
**Application number:** 1001927  
**Patent number:** 1001927  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD TO REALIZE DISCONTINUOUS TRANSMISSION IN A MOBILE PHONE SYSTEM  
**Country:** SE  
**Application number:** 9504541-5  
**Patent number:** 506999  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company:** Nokia Corporation  
**Project:** GSM  
**Title:** METHOD TO REALIZE DISCONTINUOUS TRANSMISSION IN A MOBILE PHONE SYSTEM  
**Country:** US  
**Application number:** 08/875652  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company:** Nokia Corporation  
**Project:** GSM  
**Title:** MOBILE COMMUNICATION SYSTEM AND METHOD FOR ESTABLISHING A DATA CALL  
**Country:** AU  
**Application number:** 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.

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**Company:** Nokia Corporation  
**Project:** GSM  
**Title:** MOBILE COMMUNICATION SYSTEM AND METHOD FOR ESTABLISHING A DATA CALL  
**Country:** CA  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** MOBILE COMMUNICATION SYSTEM AND METHOD FOR ESTABLISHING A DATA CALL  
**Country:** CN  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** MOBILE COMMUNICATION SYSTEM AND METHOD FOR ESTABLISHING A DATA CALL  
**Country:** EPO  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** MOBILE COMMUNICATION SYSTEM AND METHOD FOR ESTABLISHING A DATA CALL  
**Country:** FI  
**Application number:** 954545  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** MOBILE COMMUNICATION SYSTEM AND METHOD FOR ESTABLISHING A DATA CALL  
**Country:** HK  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** MOBILE COMMUNICATION SYSTEM AND METHOD FOR ESTABLISHING A DATA CALL  
**Country:** JP  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** MOBILE COMMUNICATION SYSTEM AND METHOD FOR ESTABLISHING A DATA CALL  
**Country:** NO  
**Application number:** 981333  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company:** Nokia Corporation  
**Project:** GSM  
**Title:** MOBILE COMMUNICATION SYSTEM AND METHOD FOR ESTABLISHING A DATA CALL  
**Country:** NZ  
**Application number:** 318789  
**Patent number:** 318789  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company:** Nokia Corporation  
**Project:** GSM  
**Title:** MOBILE COMMUNICATION SYSTEM AND METHOD FOR ESTABLISHING A DATA CALL  
**Country:** US  
**Application number:** 09/043702  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company:** Nokia Corporation  
**Project:** GSM  
**Title:** MULTIBAND MOBILE TELEPHONE SYSTEM  
**Country:** AU  
**Application number:** 5765396  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** MULTIBAND MOBILE TELEPHONE SYSTEM  
**Country:** CA  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** MULTIBAND MOBILE TELEPHONE SYSTEM  
**Country:** CN  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** MULTIBAND MOBILE TELEPHONE SYSTEM  
**Country:** EPO  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** MULTIBAND MOBILE TELEPHONE SYSTEM  
**Country:** FI  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** MULTIBAND MOBILE TELEPHONE SYSTEM  
**Country:** HK  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** MULTIBAND MOBILE TELEPHONE SYSTEM  
**Country:** JP  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** MULTIBAND MOBILE TELEPHONE SYSTEM  
**Country:** KR  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** MULTIBAND MOBILE TELEPHONE SYSTEM  
**Country:** SG  
**Application number:** 9700803-1  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** MULTIBAND MOBILE TELEPHONE SYSTEM  
**Country:** US  
**Application number:** 08/776279  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** MULTISLOT PACKET TRANSMISSION IN DIGITAL CELLULAR TDMA AIR INTERFACE  
**Country:** AU  
**Application number:** 17857/95  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** MULTISLOT PACKET TRANSMISSION IN DIGITAL CELLULAR TDMA AIR INTERFACE  
**Country:** CN  
**Application number:** 95105074,5  
**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:** Nokia Corporation  
**Project:** GSM  
**Title:** MULTISLOT PACKET TRANSMISSION IN DIGITAL CELLULAR TDMA AIR INTERFACE  
**Country:** EPO  
**Application number:** 95303040  
**Countries applicable:** AT, DE, 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:** Nokia Corporation  
**Project:** GSM  
**Title:** MULTISLOT PACKET TRANSMISSION IN DIGITAL CELLULAR TDMA AIR INTERFACE  
**Country:** FI  
**Application number:** 942038  
**Patent number:** 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.

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**Company:** Nokia Corporation  
**Project:** GSM  
**Title:** MULTISLOT PACKET TRANSMISSION IN DIGITAL CELLULAR TDMA AIR INTERFACE  
**Country:** IN  
**Application number:** 535/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:** Nokia Corporation  
**Project:** GSM  
**Title:** MULTISLOT PACKET TRANSMISSION IN DIGITAL CELLULAR TDMA AIR INTERFACE  
**Country:** US  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** PACKET RADIO SYSTEM AND METHODS FOR A PROTOCOL-INDEPENDENT ROUTING OF A DATA PACKET IN PACKET RADIO NETWORKS  
**Country:** AU  
**Application number:** 43928/96  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** PACKET RADIO SYSTEM AND METHODS FOR A PROTOCOL-INDEPENDENT ROUTING OF A DATA PACKET IN PACKET RADIO NETWORKS  
**Country:** CA  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** PACKET RADIO SYSTEM AND METHODS FOR A PROTOCOL-INDEPENDENT ROUTING OF A DATA PACKET IN PACKET RADIO NETWORKS  
**Country:** CN  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** PACKET RADIO SYSTEM AND METHODS FOR A PROTOCOL-INDEPENDENT ROUTING OF A DATA PACKET IN PACKET RADIO NETWORKS  
**Country:** EPO  
**Application number:** 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.

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**Company:** Nokia Corporation  
**Project:** GSM  
**Title:** PACKET RADIO SYSTEM AND METHODS FOR A PROTOCOL-INDEPENDENT ROUTING OF A DATA PACKET IN PACKET RADIO NETWORKS  
**Country:** FI  
**Application number:** 950116  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** PACKET RADIO SYSTEM AND METHODS FOR A PROTOCOL-INDEPENDENT ROUTING OF A DATA PACKET IN PACKET RADIO NETWORKS  
**Country:** HK  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** PACKET RADIO SYSTEM AND METHODS FOR A PROTOCOL-INDEPENDENT ROUTING OF A DATA PACKET IN PACKET RADIO NETWORKS  
**Country:** JP  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** PACKET RADIO SYSTEM AND METHODS FOR A PROTOCOL-INDEPENDENT ROUTING OF A DATA PACKET IN PACKET RADIO NETWORKS  
**Country:** NO  
**Application number:** 973177  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company:** Nokia Corporation  
**Project:** GSM  
**Title:** PACKET RADIO SYSTEM AND METHODS FOR A PROTOCOL-INDEPENDENT ROUTING OF A DATA PACKET IN PACKET RADIO NETWORKS  
**Country:** SG  
**Application number:** 9705557  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** PACKET RADIO SYSTEM AND METHODS FOR A PROTOCOL-INDEPENDENT ROUTING OF A DATA PACKET IN PACKET RADIO NETWORKS  
**Country:** US  
**Application number:** 08/875464  
**Patent number:** 5970059  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company:** Nokia Corporation  
**Project:** GSM  
**Title:** PREDICTIVE SPLIT-MATRIX QUANTIZATION OF SPECTRAL PARAMETERS FOR EFFICIENT CODING OF SPEECH  
**Country:** AU  
**Application number:** 52633/96  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** PREDICTIVE SPLIT-MATRIX QUANTIZATION OF SPECTRAL PARAMETERS FOR EFFICIENT CODING OF SPEECH  
**Country:** BR  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** PREDICTIVE SPLIT-MATRIX QUANTIZATION OF SPECTRAL PARAMETERS FOR EFFICIENT CODING OF SPEECH  
**Country:** CA  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** PREDICTIVE SPLIT-MATRIX QUANTIZATION OF SPECTRAL PARAMETERS FOR EFFICIENT CODING OF SPEECH  
**Country:** CN  
**Application number:** 96193827,7  
**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:** Nokia Corporation  
**Project:** GSM  
**Title:** PREDICTIVE SPLIT-MATRIX QUANTIZATION OF SPECTRAL PARAMETERS FOR EFFICIENT CODING OF SPEECH  
**Country:** EPO  
**Application number:** 96908945,7  
**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:** Nokia Corporation  
**Project:** GSM  
**Title:** PREDICTIVE SPLIT-MATRIX QUANTIZATION OF SPECTRAL PARAMETERS FOR EFFICIENT CODING OF SPEECH  
**Country:** JP  
**Application number:** 08-529817  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company:** Nokia Corporation  
**Project:** GSM  
**Title:** PREDICTIVE SPLIT-MATRIX QUANTIZATION OF SPECTRAL PARAMETERS FOR EFFICIENT CODING OF SPEECH  
**Country:** US  
**Application number:** 416019  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** SPEECH SYNTHESIZER EMPLOYING POST-PROCESSING FOR ENHANCING THE QUALITY OF THE SYNTHESIZED SPEECH  
**Country:** AU  
**Application number:** 62309/96  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** SPEECH SYNTHESIZER EMPLOYING POST-PROCESSING FOR ENHANCING THE QUALITY OF THE SYNTHESIZED SPEECH  
**Country:** BR  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** SPEECH SYNTHESIZER EMPLOYING POST-PROCESSING FOR ENHANCING THE QUALITY OF THE SYNTHESIZED SPEECH  
**Country:** CA  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** SPEECH SYNTHESIZER EMPLOYING POST-PROCESSING FOR ENHANCING THE QUALITY OF THE SYNTHESIZED SPEECH  
**Country:** CN  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** SPEECH SYNTHESIZER EMPLOYING POST-PROCESSING FOR ENHANCING THE QUALITY OF THE SYNTHESIZED SPEECH  
**Country:** EPO  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** SPEECH SYNTHESIZER EMPLOYING POST-PROCESSING FOR ENHANCING THE QUALITY OF THE SYNTHESIZED SPEECH  
**Country:** ES  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** SPEECH SYNTHESIZER EMPLOYING POST-PROCESSING FOR ENHANCING THE QUALITY OF THE SYNTHESIZED SPEECH  
**Country:** GB  
**Application number:** 9512284,2  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** SPEECH SYNTHESIZER EMPLOYING POST-PROCESSING FOR ENHANCING THE QUALITY OF THE SYNTHESIZED SPEECH  
**Country:** IN  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** SPEECH SYNTHESIZER EMPLOYING POST-PROCESSING FOR ENHANCING THE QUALITY OF THE SYNTHESIZED SPEECH  
**Country:** JP  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** SPEECH SYNTHESIZER EMPLOYING POST-PROCESSING FOR ENHANCING THE QUALITY OF THE SYNTHESIZED SPEECH  
**Country:** RU  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** SPEECH SYNTHESIZER EMPLOYING POST-PROCESSING FOR ENHANCING THE QUALITY OF THE SYNTHESIZED SPEECH  
**Country:** US  
**Application number:** 662991  
**Patent number:** 5946651  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company:** Nokia Corporation  
**Project:** GSM  
**Title:** SYSTEM FOR TRANSMITTING PACKET DATA IN RADIO TELEPHONE TDMA SYSTEM  
**Country:** CN  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** SYSTEM FOR TRANSMITTING PACKET DATA IN RADIO TELEPHONE TDMA SYSTEM  
**Country:** EPO  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** SYSTEM FOR TRANSMITTING PACKET DATA IN RADIO TELEPHONE TDMA SYSTEM  
**Country:** FI  
**Application number:** 942702  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** SYSTEM FOR TRANSMITTING PACKET DATA IN RADIO TELEPHONE TDMA SYSTEM  
**Country:** IN  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** SYSTEM FOR TRANSMITTING PACKET DATA IN RADIO TELEPHONE TDMA SYSTEM  
**Country:** JP  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** SYSTEM FOR TRANSMITTING PACKET DATA IN RADIO TELEPHONE TDMA SYSTEM  
**Country:** US  
**Application number:** 462160  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** TIME DIVISION MULTIPLE ACCESS RADIO SYSTEMS  
**Country:** AU  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** TIME DIVISION MULTIPLE ACCESS RADIO SYSTEMS  
**Country:** CN  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** TIME DIVISION MULTIPLE ACCESS RADIO SYSTEMS  
**Country:** EPO  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** TIME DIVISION MULTIPLE ACCESS RADIO SYSTEMS  
**Country:** FI  
**Application number:** 972724  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** TIME DIVISION MULTIPLE ACCESS RADIO SYSTEMS  
**Country:** JP  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** TIME DIVISION MULTIPLE ACCESS RADIO SYSTEMS  
**Country:** RU  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** TIME DIVISION MULTIPLE ACCESS RADIO SYSTEMS  
**Country:** US  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** TRANSCODER WITH PREVENTION OF TANDEM CODING OF SPEECH  
**Country:** AU  
**Application number:** 53363/96  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** TRANSCODER WITH PREVENTION OF TANDEM CODING OF SPEECH  
**Country:** CA  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** TRANSCODER WITH PREVENTION OF TANDEM CODING OF SPEECH  
**Country:** CN  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** TRANSCODER WITH PREVENTION OF TANDEM CODING OF SPEECH  
**Country:** EPO  
**Application number:** 96910043,7  
**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:** Nokia Corporation  
**Project:** GSM  
**Title:** TRANSCODER WITH PREVENTION OF TANDEM CODING OF SPEECH  
**Country:** FI  
**Application number:** 951807  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** TRANSCODER WITH PREVENTION OF TANDEM CODING OF SPEECH  
**Country:** HK  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** TRANSCODER WITH PREVENTION OF TANDEM CODING OF SPEECH  
**Country:** JP  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** TRANSCODER WITH PREVENTION OF TANDEM CODING OF SPEECH  
**Country:** NO  
**Application number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** TRANSCODER WITH PREVENTION OF TANDEM CODING OF SPEECH  
**Country:** SG  
**Application number:** 9705023-1  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** TRANSCODER WITH PREVENTION OF TANDEM CODING OF SPEECH  
**Country:** US  
**Application number:** 08/930988  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** VECTOR ADAPTIVE PREDICTIVE CODER FOR SPEECH AND AUDIO  
**Country:** CA  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** VECTOR ADAPTIVE PREDICTIVE CODER FOR SPEECH AND AUDIO  
**Country:** EPO  
**Application number:** 92108904,1  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** VECTOR ADAPTIVE PREDICTIVE CODER FOR SPEECH AND AUDIO  
**Country:** JP  
**Application number:** 84973/1988  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** VECTOR ADAPTIVE PREDICTIVE CODER FOR SPEECH AND AUDIO  
**Country:** US  
**Application number:** 35615  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** Virtual packet channel over cellular network  
**Country:** CN  
**Application number:** 95100020,9  
**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:** Nokia Corporation  
**Project:** GSM  
**Title:** Virtual packet channel over cellular network  
**Country:** EE  
**Application number:** P9400344  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company:** Nokia Corporation  
**Project:** GSM  
**Title:** Virtual packet channel over cellular network  
**Country:** EPO  
**Application number:** 94306531,8  
**Countries applicable:** AT, DE, 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:** Nokia Corporation  
**Project:** GSM  
**Title:** Virtual packet channel over cellular network  
**Country:** FI  
**Application number:** 933894  
**Patent number:** 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:** Nokia Corporation  
**Project:** GSM  
**Title:** Virtual packet channel over cellular network  
**Country:** JP  
**Application number:** 6-213046  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company:** Nokia Corporation  
**Project:** GSM  
**Title:** Virtual packet channel over cellular network  
**Country:** US  
**Application number:** 301340  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company:** Nokia Corporation  
**Project:** GSM  
**Title:** Virtual packet channel over cellular network  
**Country:** US  
**Application number:** 724375  
**Patent number:** 5802465  
**Notes:** The SIGNATORY and/or its AFFILIATES hereby declare that they are prepared to grant irrevocable licences under the IPRs on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy, in respect of the STANDARD, to the extent that the IPRs remain ESSENTIAL.

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**Company:** Nortel Northern Telecom Ltd.  
**Project:** GSM  
**Title:** Methods and apparatus for noise conditioning in digital speech compression using linear predictive coding  
**Country:** CA  
**Patent number:** US 5642464  
**Countries applicable:** CA, US, Europe  
**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:** NTT  
**Project:** GSM  
**Title:** All-pole Digital Filter  
**Country:** JP  
**Patent number:** JP 63 - 32288  
**Countries applicable:** JP

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**Company:** NTT  
**Project:** GSM  
**Title:** Encoding and Decoding Method for Speech Excitation Signals  
**Country:** JP  
**Patent number:** JP3 - 167124  
**Countries applicable:** JP

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**Company:** NTT  
**Project:** GSM  
**Title:** Method and Apparatus for Multiplexed Vector Quantization  
**Country:** CA  
**Patent number:** 1 311 060  
**Countries applicable:** CA

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**Company:** NTT  
**Project:** GSM  
**Title:** Method and Apparatus for Multiplexed Vector Quantization  
**Country:** EPC  
**Patent number:** EP 0 314 018  
**Countries applicable:** GB, DE, FR, SW

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**Company:** NTT  
**Project:** GSM  
**Title:** Method and Apparatus for Multiplexed Vector Quantization  
**Country:** JP  
**Patent number:** 2 061 805  
**Countries applicable:** JP

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**Company:** NTT  
**Project:** GSM  
**Title:** Method and Apparatus for Multiplexed Vector Quantization  
**Country:** US  
**Patent number:** 4 992 508  
**Countries applicable:** US

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**Company:** NTT  
**Project:** GSM  
**Title:** Sound Synthesizer  
**Country:** CA  
**Patent number:** 1 157 5634  
**Countries applicable:** CA

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**Company:** NTT  
**Project:** GSM  
**Title:** Sound Synthesizer  
**Country:** DE  
**Patent number:** 3 037 276  
**Countries applicable:** DE

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**Company:** NTT  
**Project:** GSM  
**Title:** Sound Synthesizer  
**Country:** FR  
**Patent number:** 2 766 828  
**Countries applicable:** FR

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**Company:** NTT  
**Project:** GSM  
**Title:** Sound Synthesizer  
**Country:** GB  
**Patent number:** 2 131 659  
**Countries applicable:** GB

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**Company:** NTT  
**Project:** GSM  
**Title:** Sound Synthesizer  
**Country:** GB  
**Patent number:** 2 059 726  
**Countries applicable:** GB

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**Company:** NTT  
**Project:** GSM  
**Title:** Sound Synthesizer  
**Country:** NL  
**Patent number:** 8 005 449  
**Countries applicable:** NL

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**Company:** NTT  
**Project:** GSM  
**Title:** Sound Synthesizer  
**Country:** SE  
**Patent number:** 8 006 850  
**Countries applicable:** SE

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**Company:** NTT  
**Project:** GSM  
**Title:** Sound Synthesizer  
**Country:** US  
**Patent number:** 4 393 272  
**Countries applicable:** US

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**Company:** NTT  
**Project:** GSM  
**Title:** Speech Coding and Decoding Methods using Adaptative and Random Codebooks  
**Country:** EPC  
**Patent number:** EP 0 514 912  
**Countries applicable:** GB, DE, FR

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**Company:** NTT  
**Project:** GSM  
**Title:** Speech Coding and Decoding Methods using Adaptative and Random Codebooks  
**Country:** US  
**Patent number:** 5 396 576  
**Countries applicable:** US

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**Company:** NTT  
**Project:** GSM  
**Title:** Speech Coding Method and Apparatus for the same  
**Country:** EPC  
**Application number:** EP 93401656.9  
**Countries applicable:** DE, FR, GB, IT

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**Company:** NTT  
**Project:** GSM  
**Title:** Speech Coding Method and Apparatus for the same  
**Country:** EPC  
**Application number:** EP 96202584.7 (Divided out of EP 93401656.9)  
**Countries applicable:** DE, FR, GB, IT

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**Company:** NTT  
**Project:** GSM  
**Title:** Speech Coding Method and Apparatus for the same  
**Country:** US  
**Application number:** 08/082 103  
**Countries applicable:** US

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**Company:** NTT  
**Project:** GSM  
**Title:** Speech Coding-Decoding Method  
**Country:** JP  
**Patent number:** JP3 - 117646  
**Countries applicable:** JP

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**Company:** Omnipoint  
**Project:** GSM  
**Title:** Multipulse LPC Speech Processing Arrangement  
**Country:** GB  
**Patent number:** 0 175 752  
**Countries applicable:** UK  
**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:** Philips  
**Project:** GSM  
**Country:** DE  
**Patent number:** DE-PS 34 10 937

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**Company:** Philips  
**Project:** GSM  
**Country:** DE  
**Patent number:** DE-PS 32 09 381

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**Company:** Philips  
**Project:** GSM  
**Country:** EPC  
**Application number:** 87200545.9  
**Patent number:** EP 0 240 073 B1

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**Company:** Philips  
**Project:** GSM  
**Title:** Dienstintegriertes Funkübertragungssystem  
**Country:** EPC  
**Application number:** 86200724.2  
**Patent number:** EP 0 201 126 B1

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**Company:** Philips  
**Project:** GSM  
**Title:** Digitales Funkübertragungssystem mit variabler Zeitschlitzdauer der Zeitschlitz im Zeitmultiplexrahmen  
**Country:** EPC  
**Application number:** 86201267.1  
**Patent number:** EP 0 210 698

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**Company:** Philips  
**Project:** GSM  
**Title:** Improvements in or relating to Digital Filters  
**Country:** GB  
**Application number:** 8104155  
**Patent number:** GB 2069799  
**Countries applicable:** GB

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**Company:** Philips  
**Project:** GSM  
**Title:** Information transmission system  
**Country:** GB  
**Application number:** 8008510  
**Patent number:** GB 2063011  
**Countries applicable:** GB

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**Company:** Philips  
**Project:** GSM  
**Title:** Multi-pulse excitation linear-predictive speech coder  
**Country:** EPC  
**Application number:** 86200434.8  
**Patent number:** EP 0 195 487 B1

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**Company:** Philips  
**Project:** GSM  
**Title:** Multiple-access communications system  
**Country:** EPC  
**Application number:** 84201107.4  
**Patent number:** EP 0 134 057

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**Company:** Philips  
**Project:** GSM  
**Title:** Procédé pour reconnaître l'utilisation illicite d'une identification  
**Country:** FR  
**Application number:** 8504296  
**Patent number:** FR 256 184 1  
**Countries applicable:** FR

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**Company:** Philips  
**Project:** GSM  
**Title:** TDMA system of transmitting information between a central station and sub-stations  
**Country:** GB  
**Application number:** 8207811  
**Patent number:** GB 209 55 16  
**Countries applicable:** GB

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**Company:** Philips  
**Project:** GSM  
**Title:** Verfahren und Steuereinrichtung zum Auswählen eines Organisationskanals in einer beweglichen Funkstation eines Funkübertragungs  
**Country:** EPC  
**Application number:** 83201767.7  
**Patent number:** EP 0 111 972 B1

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**Company:** Philips  
**Project:** GSM  
**Title:** Verfahren und Steuereinrichtung zur Verteilung der Verkehrsmenge auf verschiedene Organisationskanäle eines Funkübertragungssys  
**Country:** EPC  
**Application number:** 83201765.1  
**Patent number:** EP 0 111 970 B1

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**Company:** Philips  
**Project:** GSM  
**Title:** Verfahren und Steuereinrichtung zur Verteilung der Verkehrsmenge auf verschiedene Organisationskanäle eines Funkübertragungssys.  
**Country:** EPC  
**Application number:** 83201766.9  
**Patent number:** EP 0 111 971 B1

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**Company:** Philips  
**Project:** GSM  
**Title:** Verfahren zum Zugreifen auf Übertragungskanäle eines Nachrichtenübertragungssystems  
**Country:** EPC  
**Application number:** 82107529.8  
**Patent number:** EP 0 073 014 B1

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**Company:** Philips  
**Project:** GSM  
**Title:** Verfahren zur Überwachung einer zwischen ortsfester Funkstation und beweglicher Funkstation bestehenden Funkverbindung  
**Country:** EPC  
**Application number:** 83201768.5  
**Patent number:** EP 0 111 973 B1

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**Company:** Robert Bosch GmbH  
**Project:** GSM  
**Title:** Nachrichtenübertragungsverfahren  
**Country:** DE  
**Patent number:** DE 35 37 105 C2  
**Countries applicable:** DE  
**Standard(s):** GSM 04.06, GSM 05.02, GSM 05.08

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**Company:** Robert Bosch GmbH  
**Project:** GSM  
**Title:** Verfahren zum Decodieren von Binärsignalen  
**Country:** EPC  
**Application number:** EP 92118663.1  
**Patent number:** EP 0542065 A2  
**Standard(s):** GSM 06.21, V5.0.1

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**Company:** Robert Bosch GmbH  
**Project:** GSM  
**Title:** Verfahren zum Übertragen von Daten, insbesondere von GSM-Daten  
**Country:** DE  
**Application number:** DE 19650141  
**Countries applicable:** DE  
**Standard(s):** GSM 04.53  
**Notes:** Same patent application as EP 97119761.1

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**Company:** Robert Bosch GmbH  
**Project:** GSM  
**Title:** Verfahren zum Übertragen von Daten, insbesondere von GSM-Daten  
**Country:** DE  
**Application number:** DE 19544367  
**Countries applicable:** DE  
**Standard(s):** GSM 04.53  
**Notes:** Same patent application as EP 96934415.9

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**Company:** Robert Bosch GmbH  
**Project:** GSM  
**Title:** Verfahren zum Übertragen von Daten, insbesondere von GSM-Daten  
**Country:** DE  
**Application number:** DE 19650140  
**Countries applicable:** DE  
**Standard(s):** GSM 04.53  
**Notes:** Same patent application as EP 97119992.2

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**Company:** Robert Bosch GmbH  
**Project:** GSM  
**Title:** Verfahren zum Übertragen von Daten, insbesondere von GSM-Daten  
**Country:** EPC  
**Application number:** EP 97119992.2  
**Countries applicable:** EPC  
**Standard(s):** GSM 04.53  
**Notes:** Same patent application as DE 19650140

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**Company:** Robert Bosch GmbH  
**Project:** GSM  
**Title:** Verfahren zum Übertragen von Daten, insbesondere von GSM-Daten  
**Country:** EPC  
**Application number:** EP 97119761.1  
**Countries applicable:** EPC  
**Standard(s):** GSM 04.53  
**Notes:** Same patent application as DE 19650141

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**Company:** Robert Bosch GmbH  
**Project:** GSM  
**Title:** Verfahren zum Übertragen von Daten, insbesondere von GSM-Daten  
**Country:** EPC  
**Application number:** EP 96934415.9  
**Countries applicable:** EPC  
**Standard(s):** GSM 04.53  
**Notes:** Same patent application as DE 19544367

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**Company:** Rockwell Semiconductor Systems  
**Project:** GSM  
**Title:** Delayed decision switched prediction multistage LSF vector quantization  
**Country:** n/a  
**Application number:** n/a  
**Patent number:** 5774839  
**Countries applicable:** US  
**Notes:** AMR

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**Company:** Rockwell Semiconductor Systems  
**Project:** GSM  
**Title:** Method and apparatus for generating frame voicing decisions of an incoming speech signal  
**Country:** n/a  
**Application number:** n/a  
**Patent number:** 5774849  
**Countries applicable:** US  
**Notes:** AMR

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**Company:** Rockwell Semiconductor Systems  
**Project:** GSM  
**Title:** Spike code-excited linear prediction  
**Country:** n/a  
**Application number:** n/a  
**Patent number:** 5664054  
**Countries applicable:** US  
**Notes:** AMR

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**Company:** Rockwell Semiconductor Systems  
**Project:** GSM  
**Title:** Usage of voice activity detection for efficient coding of speech  
**Country:** n/a  
**Application number:** n/a  
**Patent number:** 5689615  
**Countries applicable:** US  
**Notes:** AMR

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**Company:** Schlumberger Systèmes  
**Project:** GSM  
**Country:** FR  
**Patent number:** 97/936 723.2  
**Countries applicable:** EP  
**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:** Schlumberger Systèmes  
**Project:** GSM  
**Country:** FR  
**Patent number:** 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:** Schlumberger Systèmes  
**Project:** GSM  
**Country:** FR  
**Patent number:** PCT/FR98/02753  
**Countries applicable:** WO  
**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:** Schlumberger Systèmes  
**Project:** GSM  
**Country:** FR  
**Patent number:** 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:** Schlumberger Systèmes  
**Project:** GSM  
**Country:** FR  
**Patent number:** 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:** Schlumberger Systèmes  
**Project:** GSM  
**Country:** FR  
**Patent number:** 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:** Schlumberger Systèmes  
**Project:** GSM  
**Country:** FR  
**Patent number:** 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:** Schlumberger Systèmes  
**Project:** GSM  
**Country:** FR  
**Patent number:** 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:** Schlumberger Systèmes  
**Project:** GSM  
**Country:** FR  
**Patent number:** 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.

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**Company:** Schlumberger Systèmes  
**Project:** GSM  
**Country:** FR  
**Patent number:** 9702459-0  
**Countries applicable:** 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: 07/14/97

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**Company:** Schlumberger Systèmes  
**Project:** GSM  
**Country:** FR  
**Patent number:** 08/892,813  
**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: 07/15/97.

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**Company:** Schlumberger Systèmes  
**Project:** GSM  
**Country:** FR  
**Patent number:** 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

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**Company:** Schlumberger Systèmes  
**Project:** GSM  
**Country:** FR  
**Patent number:** 9-189917  
**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: 07/15/97.

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**Company:** Schlumberger Systèmes  
**Project:** GSM  
**Country:** FR  
**Patent number:** 97/401620.6  
**Countries applicable:** EP  
**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:** Schlumberger Systèmes  
**Project:** GSM  
**Country:** FR  
**Patent number:** 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:** Schlumberger Systèmes  
**Project:** GSM  
**Country:** FR  
**Patent number:** PCT/US98/17605  
**Countries applicable:** WO  
**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:** Schlumberger Systèmes  
**Project:** GSM  
**Country:** FR  
**Patent number:** 98/946 633.9  
**Countries applicable:** EP  
**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:** Schlumberger Systèmes  
**Project:** GSM  
**Country:** FR  
**Patent number:** 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:** Schlumberger Systèmes  
**Project:** GSM  
**Country:** FR  
**Patent number:** 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:** Schlumberger Systèmes  
**Project:** GSM  
**Country:** FR  
**Patent number:** 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:** Schlumberger Systèmes  
**Project:** GSM  
**Country:** FR  
**Patent number:** PCT/US97/18999  
**Countries applicable:** AU, BR, CN, EP, 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:** Schlumberger Systèmes  
**Project:** GSM  
**Country:** FR  
**Patent number:** 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:** Schlumberger Systèmes  
**Project:** GSM  
**Country:** FR  
**Patent number:** 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:** Schlumberger Systèmes  
**Project:** GSM  
**Country:** FR  
**Patent number:** 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:** Schlumberger Systèmes  
**Project:** GSM  
**Country:** FR  
**Patent number:** 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:** Schlumberger Systèmes  
**Project:** GSM  
**Country:** FR  
**Patent number:** 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:** Schlumberger Systèmes  
**Project:** GSM  
**Country:** FR  
**Patent number:** 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:** Schlumberger Systèmes  
**Project:** GSM  
**Country:** FR  
**Patent number:** 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:** Schlumberger Systèmes  
**Project:** GSM  
**Country:** FR  
**Patent number:** 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:** Siemens  
**Project:** GSM  
**Country:** DE  
**Patent number:** 0675663  
**Countries applicable:** DE, FR, GB  
**Notes:** Siemens Aktiengesellschaft hereby declares that it owns patents or patent applications that are essential or potentially essential for manufacturing and selling implementations of the GSM Standards.  
 Licences under these patent rights will be made available to any applicant. Siemens Aktiengesellschaft also declares that it is willing to grant licenses to these patent rights throughout the world on a non-discriminatory basis under fair and reasonable terms and conditions. Such licences will provide that a similar grant under any licensee's patent rights within the scope of the licenses granted to the licensee is made available to Siemens Aktiengesellschaft and its subsidiaries on request.

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**Company:** Siemens  
**Project:** GSM  
**Title:** AMR  
**Country:** n/a  
**Notes:** Siemens AG has declared that, in accordance with the ETSI IPR Policy, Article 4.1, it has no IPRs which are likely to become Essential to the technical proposal identified as Adaptive Multirate Coder (AMR). In case an IPR owned by Siemens AG is likely to become Essential to AMR, Siemens AG will draw ETSI's attention to it and will be prepared to grant licenses subject to the conditions defined in Annex 2 of the IPR Licensing Declaration.

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**Company:** Siemens  
**Project:** GSM  
**Title:** Einrichtung zur zweiseitigen drahtlosen Übertragung von Sprache  
**Country:** DE  
**Patent number:** DE 32 25 443  
**Countries applicable:** DE  
**Notes:** Siemens AG declares that it has existing patents or may in the future obtain patents, which are essential or potentially essential for manufacturing and selling implementations of the GSM Standards and/or the DCS 1800 Standards.

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**Company:** Siemens  
**Project:** GSM  
**Title:** Fernmeldenetz sowie Teilnehmerstationen und Zentralstation für ein Fernmeldenetz  
**Country:** DE  
**Patent number:** DE 36 38 735  
**Countries applicable:** DE  
**Notes:** Siemens AG declares that it has existing patents or may in the future obtain patents, which are essential or potentially essential for manufacturing and selling implementations of the GSM Standards and/or the DCS 1800 Standards.

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**Company:** Siemens  
**Project:** GSM  
**Title:** Method for administration of supplementary services in a mobile radio network  
**Country:** DE  
**Application number:** 266/CAL/97  
**Countries applicable:** IN  
**Notes:** Siemens Aktiengesellschaft hereby declares that it owns patents or patent applications that are essential or potentially essential for manufacturing and selling implementations of the GSM Standards.  
Licences under these patent rights will be made available to any applicant. Siemens Aktiengesellschaft also declares that it is willing to grant licenses to these patent rights throughout the world on a non-discriminatory basis under fair and reasonable terms and conditions. Such licences will provide that a similar grant under any licensee's patent rights within the scope of the licenses granted to the licensee is made available to Siemens Aktiengesellschaft and its subsidiaries on request.

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**Company:** Siemens  
**Project:** GSM  
**Title:** Method for administration of supplementary services in a mobile radio network  
**Country:** DE  
**Application number:** 1160330  
**Countries applicable:** CN  
**Notes:** Siemens Aktiengesellschaft hereby declares that it owns patents or patent applications that are essential or potentially essential for manufacturing and selling implementations of the GSM Standards.  
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**Company:** Siemens  
**Project:** GSM  
**Title:** Method for administration of supplementary services in a mobile radio network  
**Country:** DE  
**Application number:** 0793394  
**Countries applicable:** DE, ES, FR, GB, IT  
**Notes:** Siemens Aktiengesellschaft hereby declares that it owns patents or patent applications that are essential or potentially essential for manufacturing and selling implementations of the GSM Standards.  
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**Company:** Siemens  
**Project:** GSM  
**Title:** Method for administration of supplementary services in a mobile radio network  
**Country:** DE  
**Patent number:** 97/1770  
**Countries applicable:** ZA  
**Notes:** Siemens Aktiengesellschaft hereby declares that it owns patents or patent applications that are essential or potentially essential for manufacturing and selling implementations of the GSM Standards.  
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**Company:** Siemens  
**Project:** GSM  
**Title:** Method for administration of supplementary services in a mobile radio network  
**Country:** DE  
**Patent number:** 19608464  
**Countries applicable:** DE  
**Notes:** Siemens Aktiengesellschaft hereby declares that it owns patents or patent applications that are essential or potentially essential for manufacturing and selling implementations of the GSM Standards.  
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**Company:** Siemens  
**Project:** GSM  
**Title:** Method for administration of supplementary services in a mobile radio network  
**Country:** DE  
**Application number:** 08/810,622  
**Countries applicable:** US  
**Notes:** Siemens Aktiengesellschaft hereby declares that it owns patents or patent applications that are essential or potentially essential for manufacturing and selling implementations of the GSM Standards.  
Licences under these patent rights will be made available to any applicant. Siemens Aktiengesellschaft also declares that it is willing to grant licenses to these patent rights throughout the world on a non-discriminatory basis under fair and reasonable terms and conditions. Such licences will provide that a similar grant under any licensee's patent rights within the scope of the licenses granted to the licensee is made available to Siemens Aktiengesellschaft and its subsidiaries on request.

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**Company:** Siemens  
**Project:** GSM  
**Title:** Method for call establishment to a group of mobile subscribers in a mobile communication network  
**Country:** DE  
**Application number:** 960662  
**Countries applicable:** FI  
**Notes:** Siemens Aktiengesellschaft hereby declares that it owns patents or patent applications that are essential or potentially essential for manufacturing and selling implementations of the GSM Standards.  
Licences under these patent rights will be made available to any applicant. Siemens Aktiengesellschaft also declares that it is willing to grant licenses to these patent rights throughout the world on a non-discriminatory basis under fair and reasonable terms and conditions. Such licences will provide that a similar grant under any licensee's patent rights within the scope of the licenses granted to the licensee is made available to Siemens Aktiengesellschaft and its subsidiaries on request.

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**Company:** Siemens  
**Project:** GSM  
**Title:** Method for call establishment to a group of mobile subscribers in a mobile communication network  
**Country:** DE  
**Application number:** 0727914  
**Countries applicable:** DE, ES, FR, GB, IT, SE  
**Notes:** Siemens Aktiengesellschaft hereby declares that it owns patents or patent applications that are essential or potentially essential for manufacturing and selling implementations of the GSM Standards.  
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**Company:** Siemens  
**Project:** GSM  
**Title:** Method for call establishment to a group of mobile subscribers in a mobile communication network  
**Country:** DE  
**Patent number:** 57971000  
**Countries applicable:** US  
**Notes:** Siemens Aktiengesellschaft hereby declares that it owns patents or patent applications that are essential or potentially essential for manufacturing and selling implementations of the GSM Standards.  
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**Company:** Siemens  
**Project:** GSM  
**Title:** Method for call establishment to a group of mobile subscribers in a mobile communication network  
**Country:** DE  
**Application number:** 19505270.6  
**Countries applicable:** DE  
**Notes:** Siemens Aktiengesellschaft hereby declares that it owns patents or patent applications that are essential or potentially essential for manufacturing and selling implementations of the GSM Standards.  
Licences under these patent rights will be made available to any applicant. Siemens Aktiengesellschaft also declares that it is willing to grant licenses to these patent rights throughout the world on a non-discriminatory basis under fair and reasonable terms and conditions. Such licences will provide that a similar grant under any licensee's patent rights within the scope of the licenses granted to the licensee is made available to Siemens Aktiengesellschaft and its subsidiaries on request.

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**Company:** Siemens  
**Project:** GSM  
**Title:** Method for configuration of the radio interface in a mobile radio network  
**Country:** DE  
**Application number:** WO98/23104  
**Countries applicable:** CN, US, EP (CH, DE, ES, FI, FR, GB, IT, NL, SE)  
**Notes:** Siemens Aktiengesellschaft hereby declares that it owns patents or patent applications that are essential or potentially essential for manufacturing and selling implementations of the GSM Standards.  
Licences under these patent rights will be made available to any applicant. Siemens Aktiengesellschaft also declares that it is willing to grant licenses to these patent rights throughout the world on a non-discriminatory basis under fair and reasonable terms and conditions. Such licences will provide that a similar grant under any licensee's patent rights within the scope of the licenses granted to the licensee is made available to Siemens Aktiengesellschaft and its subsidiaries on request.

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**Company:** Siemens  
**Project:** GSM  
**Title:** Method for configuration of the radio interface in a mobile radio network  
**Country:** DE  
**Application number:** 19652303.6  
**Countries applicable:** DE  
**Notes:** Siemens Aktiengesellschaft hereby declares that it owns patents or patent applications that are essential or potentially essential for manufacturing and selling implementations of the GSM Standards.  
Licences under these patent rights will be made available to any applicant. Siemens Aktiengesellschaft also declares that it is willing to grant licenses to these patent rights throughout the world on a non-discriminatory basis under fair and reasonable terms and conditions. Such licences will provide that a similar grant under any licensee's patent rights within the scope of the licenses granted to the licensee is made available to Siemens Aktiengesellschaft and its subsidiaries on request.

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**Company:** Siemens  
**Project:** GSM  
**Title:** Method for configuration of the radio interface in a mobile radio network  
**Country:** DE  
**Patent number:** 97/10373  
**Countries applicable:** ZA  
**Notes:** Siemens Aktiengesellschaft hereby declares that it owns patents or patent applications that are essential or potentially essential for manufacturing and selling implementations of the GSM Standards.  
Licences under these patent rights will be made available to any applicant. Siemens Aktiengesellschaft also declares that it is willing to grant licenses to these patent rights throughout the world on a non-discriminatory basis under fair and reasonable terms and conditions. Such licences will provide that a similar grant under any licensee's patent rights within the scope of the licenses granted to the licensee is made available to Siemens Aktiengesellschaft and its subsidiaries on request.

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**Company:** Siemens  
**Project:** GSM  
**Title:** Method for configuration of the radio interface in a mobile radio network  
**Country:** DE  
**Application number:** 2159/CAL/97  
**Countries applicable:** IN  
**Notes:** Siemens Aktiengesellschaft hereby declares that it owns patents or patent applications that are essential or potentially essential for manufacturing and selling implementations of the GSM Standards.  
Licences under these patent rights will be made available to any applicant. Siemens Aktiengesellschaft also declares that it is willing to grant licenses to these patent rights throughout the world on a non-discriminatory basis under fair and reasonable terms and conditions. Such licences will provide that a similar grant under any licensee's patent rights within the scope of the licenses granted to the licensee is made available to Siemens Aktiengesellschaft and its subsidiaries on request.

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**Company:** Siemens  
**Project:** GSM  
**Title:** Method for configuration of the radio interface in a mobile radio network for data packet transmission  
**Country:** DE  
**Application number:** WO98/23105  
**Countries applicable:** AU, EA, US, EP (DE, ES, FR, GB, IT, SE)  
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**Company:** Siemens  
**Project:** GSM  
**Title:** Method for configuration of the radio interface in a mobile radio network for data packet transmission  
**Country:** DE  
**Patent number:** 104001  
**Countries applicable:** TW  
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**Company:** Siemens  
**Project:** GSM  
**Title:** Method for configuration of the radio interface in a mobile radio network for data packet transmission  
**Country:** DE  
**Application number:** P970105383  
**Countries applicable:** AR  
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**Company:** Siemens  
**Project:** GSM  
**Title:** Method for configuration of the radio interface in a mobile radio network for data packet transmission  
**Country:** DE  
**Application number:** 2158/CAL/97  
**Countries applicable:** IN  
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**Company:** Siemens  
**Project:** GSM  
**Title:** Method for configuration of the radio interface in a mobile radio network for data packet transmission  
**Country:** DE  
**Patent number:** 97/10371  
**Countries applicable:** ZA  
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**Company:** Siemens  
**Project:** GSM  
**Title:** Method for configuration of the radio interface in a mobile radio network for packet data transmission  
**Country:** DE  
**Application number:** WO98/23106  
**Countries applicable:** BR, CA, CN, IL, SG, UA, US, EP (CH, DE, ES, FI, FR, GB, IT, NL, SE)  
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**Company:** Siemens  
**Project:** GSM  
**Title:** Method for configuration of the radio interface in a mobile radio network for packet data transmission  
**Country:** DE  
**Patent number:** 19647629  
**Countries applicable:** DE  
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**Company:** Siemens  
**Project:** GSM  
**Title:** Method for configuration of the radio interface in a mobile radio network for packet data transmission  
**Country:** DE  
**Application number:** 2160/CAL/97  
**Countries applicable:** IN  
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**Company:** Siemens  
**Project:** GSM  
**Title:** Method for configuration of the radio interface in a mobile radio network for packet data transmission  
**Country:** DE  
**Patent number:** 97/10374  
**Countries applicable:** ZA  
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**Company:** Siemens  
**Project:** GSM  
**Title:** Method for data transmission in a general packet radio system  
**Country:** DE  
**Patent number:** 5943327  
**Countries applicable:** US  
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**Company:** Siemens  
**Project:** GSM  
**Title:** Method for data transmission in a general packet radio system  
**Country:** DE  
**Application number:** 19539374.0  
**Countries applicable:** DE  
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**Company:** Siemens  
**Project:** GSM  
**Title:** Method for data transmission in a general packet radio system  
**Country:** DE  
**Application number:** 0771125  
**Countries applicable:** AT, DE, ES, FR, GB, IT  
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**Company:** Siemens  
**Project:** GSM  
**Title:** Method for forming a data package channel  
**Country:** DE  
**Patent number:** 19707261  
**Countries applicable:** DE  
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**Company:** Siemens  
**Project:** GSM  
**Title:** Method for forming a data package channel  
**Country:** DE  
**Patent number:** 98/1425  
**Countries applicable:** ZA  
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**Company:** Siemens  
**Project:** GSM  
**Title:** Method for forming a data package channel  
**Country:** DE  
**Application number:** WO98/38818  
**Countries applicable:** US, EP (DE, FR, GB, IT)  
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**Company:** Siemens  
**Project:** GSM  
**Title:** Method for interception of call connections in a mobile communication network  
**Country:** DE  
**Application number:** WO99/14970  
**Countries applicable:** CN, US, EP (DE, ES, FR, GB)  
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**Company:** Siemens  
**Project:** GSM  
**Title:** Method for interception of call connections in a mobile communication network  
**Country:** DE  
**Patent number:** 19741216  
**Countries applicable:** DE  
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**Company:** Siemens  
**Project:** GSM  
**Title:** Method for optimal call routing in a mobile radio network  
**Country:** DE  
**Application number:** 0827355  
**Countries applicable:** DE, ES, FR, GB, IT  
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**Company:** Siemens  
**Project:** GSM  
**Title:** Method for optimal call routing in a mobile radio network  
**Country:** DE  
**Patent number:** 6035198  
**Countries applicable:** US  
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**Company:** Siemens  
**Project:** GSM  
**Title:** Method for optimal call routing in a mobile radio network  
**Country:** DE  
**Application number:** 1533/CAL/97  
**Countries applicable:** IN  
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**Company:** Siemens  
**Project:** GSM  
**Title:** Method for optimal call routing in a mobile radio network  
**Country:** DE  
**Patent number:** 2977154  
**Countries applicable:** JP  
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**Company:** Siemens  
**Project:** GSM  
**Title:** Method for optimal call routing in a mobile radio network  
**Country:** DE  
**Application number:** 1180285  
**Countries applicable:** CN  
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**Company:** Siemens  
**Project:** GSM  
**Title:** Method for optimal call routing in a mobile radio network  
**Country:** DE  
**Patent number:** 19635581  
**Countries applicable:** DE  
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**Company:** Siemens  
**Project:** GSM  
**Title:** Method for optimal call routing in a mobile radio network  
**Country:** DE  
**Application number:** 24254/98  
**Countries applicable:** KR  
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**Company:** Siemens  
**Project:** GSM  
**Title:** Method for optimized routing in a mobile network system  
**Country:** DE  
**Patent number:** P4411375.7  
**Countries applicable:** DE  
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**Company:** Siemens  
**Project:** GSM  
**Title:** Method for optimized routing in a mobile network system  
**Country:** DE  
**Patent number:** P4411375.7  
**Countries applicable:** DE  
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**Company:** Siemens  
**Project:** GSM  
**Title:** Method for optimized routing in a mobile network system  
**Country:** DE  
**Patent number:** 0675663  
**Countries applicable:** DE, FR, GB  
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**Company:** Siemens  
**Project:** GSM  
**Title:** Method for presentation the mobile subscriber number of a group member from the group call on the display of a mobile station  
**Country:** DE  
**Application number:** 0771126  
**Countries applicable:** AT, DE, ES, FR, GB, IT  
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**Company:** Siemens  
**Project:** GSM  
**Title:** Method for presentation the mobile subscriber number of a group member from the group call on the display of a mobile station  
**Country:** DE  
**Application number:** 19540171.9  
**Countries applicable:** DE  
**Notes:** Siemens Aktiengesellschaft hereby declares that it owns patents or patent applications that are essential or potentially essential for manufacturing and selling implementations of the GSM Standards.  
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**Company:** Siemens  
**Project:** GSM  
**Title:** Method for providing announcements to an intelligent peripheral  
**Country:** DE  
**Application number:** 272/CAL/98  
**Countries applicable:** IN  
**Notes:** Siemens Aktiengesellschaft hereby declares that it owns patents or patent applications that are essential or potentially essential for manufacturing and selling implementations of the GSM Standards.  
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**Company:** Siemens  
**Project:** GSM  
**Title:** Method for providing announcements to an intelligent peripheral  
**Country:** DE  
**Application number:** P980100725  
**Countries applicable:** AR  
**Notes:** Siemens Aktiengesellschaft hereby declares that it owns patents or patent applications that are essential or potentially essential for manufacturing and selling implementations of the GSM Standards.  
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**Company:** Siemens  
**Project:** GSM  
**Title:** Method for providing announcements to an intelligent peripheral  
**Country:** DE  
**Application number:** WO98/37716  
**Countries applicable:** BR, CN, JP, KR, US, EP (AT, BE, DE, ES, FR, GB, IT)  
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**Company:** Siemens  
**Project:** GSM  
**Title:** Method for providing announcements to an intelligent peripheral  
**Country:** DE  
**Application number:** 19707060.4  
**Countries applicable:** DE  
**Notes:** Siemens Aktiengesellschaft hereby declares that it owns patents or patent applications that are essential or potentially essential for manufacturing and selling implementations of the GSM Standards.  
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**Company:** Siemens  
**Project:** GSM  
**Title:** Method for subscriber authentication in a mobile radio network  
**Country:** DE  
**Application number:** 19812215  
**Countries applicable:** DE  
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**Company:** Siemens  
**Project:** GSM  
**Title:** Method for subscriber authentication in a mobile radio network  
**Country:** DE  
**Application number:** WO99/48318  
**Countries applicable:** JP, KR, US, EP (DE, ES, FR, GB)  
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**Company:** Siemens  
**Project:** GSM  
**Title:** Method for supporting supplementary services  
**Country:** DE  
**Patent number:** 4415734  
**Countries applicable:** DE  
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**Company:** Siemens  
**Project:** GSM  
**Title:** Method for supporting of mobile number portability  
**Country:** DE  
**Application number:** 0865218  
**Countries applicable:** AT, BE, DE, ES, FR, GB, IT  
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**Company:** Siemens  
**Project:** GSM  
**Title:** Method for supporting of mobile number portability  
**Country:** DE  
**Application number:** 19709713  
**Countries applicable:** DE  
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**Company:** Siemens  
**Project:** GSM  
**Title:** Method for supporting of mobile number portability  
**Country:** DE  
**Application number:** 19709711  
**Countries applicable:** DE  
**Notes:** Siemens Aktiengesellschaft hereby declares that it owns patents or patent applications that are essential or potentially essential for manufacturing and selling implementations of the GSM Standards.  
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**Company:** Siemens  
**Project:** GSM  
**Title:** Method for supporting of mobile number portability  
**Country:** DE  
**Application number:** 1010629  
**Countries applicable:** HK  
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**Company:** Siemens  
**Project:** GSM  
**Title:** Method for supporting of optimal call routing in a mobile radio network  
**Country:** DE  
**Application number:** 19647627  
**Countries applicable:** DE  
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**Company:** Siemens  
**Project:** GSM  
**Title:** Method for supporting of optimal call routing in a mobile radio network  
**Country:** DE  
**Application number:** WO98/23117  
**Countries applicable:** US, EP (AT, BE, DE, ES, FR, GB, IT, NL)  
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**Company:** Siemens  
**Project:** GSM  
**Title:** Method for synchronisation of data transmission at the transmitter  
**Country:** DE  
**Application number:** 19725569.8  
**Countries applicable:** DE  
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**Company:** Siemens  
**Project:** GSM  
**Title:** Method for synchronisation of data transmission at the transmitter  
**Country:** DE  
**Application number:** WO98/58504  
**Countries applicable:** CN, JP, KR, US, EP (BE, DE, FR, GB, IT, PT)  
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**Company:** Siemens  
**Project:** GSM  
**Title:** Method for transmission of data in a mobile radio network  
**Country:** DE  
**Patent number:** 19600197  
**Countries applicable:** DE  
**Notes:** Siemens Aktiengesellschaft hereby declares that it owns patents or patent applications that are essential or potentially essential for manufacturing and selling implementations of the GSM Standards.  
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**Company:** Siemens  
**Project:** GSM  
**Title:** Method for transmission of data in a mobile radio network  
**Country:** DE  
**Application number:** WO97/25827  
**Countries applicable:** CN, RU, US, EP (DE, ES, FR, GB, IT)  
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**Company:** Siemens  
**Project:** GSM  
**Title:** Method for transmission of data packets in a mobile radio network  
**Country:** DE  
**Application number:** 85111034  
**Countries applicable:** TW  
**Notes:** Siemens Aktiengesellschaft hereby declares that it owns patents or patent applications that are essential or potentially essential for manufacturing and selling implementations of the GSM Standards.  
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**Company:** Siemens  
**Project:** GSM  
**Title:** Method for transmission of data packets in a mobile radio network  
**Country:** DE  
**Patent number:** 19534156  
**Countries applicable:** DE  
**Notes:** Siemens Aktiengesellschaft hereby declares that it owns patents or patent applications that are essential or potentially essential for manufacturing and selling implementations of the GSM Standards.  
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**Company:** Siemens  
**Project:** GSM  
**Title:** Method for transmission of data packets in a mobile radio network  
**Country:** DE  
**Application number:** WO97/02712  
**Countries applicable:** CN, US, EP (ES, FR, GB, IT)  
**Notes:** Siemens Aktiengesellschaft hereby declares that it owns patents or patent applications that are essential or potentially essential for manufacturing and selling implementations of the GSM Standards.  
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**Company:** Siemens  
**Project:** GSM  
**Title:** Method for transmission of data packets in a mobile radio network  
**Country:** DE  
**Patent number:** 19524659  
**Countries applicable:** DE  
**Notes:** Siemens Aktiengesellschaft hereby declares that it owns patents or patent applications that are essential or potentially essential for manufacturing and selling implementations of the GSM Standards.  
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**Company:** Siemens  
**Project:** GSM  
**Title:** Method for transmission of data packets in a mobile radio network  
**Country:** DE  
**Application number:** WO97/10685  
**Countries applicable:** US, EP (FR, GB, IT, NL)  
**Notes:** Siemens Aktiengesellschaft hereby declares that it owns patents or patent applications that are essential or potentially essential for manufacturing and selling implementations of the GSM Standards.  
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**Company:** Siemens  
**Project:** GSM  
**Title:** Method for transmission of data packets in a mobile radio network  
**Country:** DE  
**Application number:** 1555/CAL/96  
**Countries applicable:** IN  
**Notes:** Siemens Aktiengesellschaft hereby declares that it owns patents or patent applications that are essential or potentially essential for manufacturing and selling implementations of the GSM Standards.  
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**Company:** Siemens  
**Project:** GSM  
**Title:** Method for transmission of information elements of a non real time service  
**Country:** DE  
**Application number:** WO00/31913  
**Countries applicable:** CN, KR, US, EP (DE, FR, GB, SE)  
**Notes:** Siemens Aktiengesellschaft hereby declares that it owns patents or patent applications that are essential or potentially essential for manufacturing and selling implementations of the GSM Standards.  
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**Company:** Siemens  
**Project:** GSM  
**Title:** Method for transmission of information elements of a non real time service  
**Country:** DE  
**Patent number:** 19854455  
**Countries applicable:** DE  
**Notes:** Siemens Aktiengesellschaft hereby declares that it owns patents or patent applications that are essential or potentially essential for manufacturing and selling implementations of the GSM Standards.  
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**Company:** Siemens  
**Project:** GSM  
**Title:** Method for transmission of information in a mobile radio network  
**Country:** DE  
**Patent number:** 5648967  
**Countries applicable:** US  
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**Company:** Siemens  
**Project:** GSM  
**Title:** Method for transmission of information in a mobile radio network  
**Country:** DE  
**Application number:** 951051  
**Countries applicable:** FI  
**Notes:** Siemens Aktiengesellschaft hereby declares that it owns patents or patent applications that are essential or potentially essential for manufacturing and selling implementations of the GSM Standards.  
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**Company:** Siemens  
**Project:** GSM  
**Title:** Method for transmission of information in a mobile radio network  
**Country:** DE  
**Application number:** P4407530.8  
**Countries applicable:** DE  
**Notes:** Siemens Aktiengesellschaft hereby declares that it owns patents or patent applications that are essential or potentially essential for manufacturing and selling implementations of the GSM Standards.  
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**Company:** Siemens  
**Project:** GSM  
**Title:** Method for transmission of information in a mobile radio network  
**Country:** DE  
**Application number:** 0671824  
**Countries applicable:** FR, GB, SE  
**Notes:** Siemens Aktiengesellschaft hereby declares that it owns patents or patent applications that are essential or potentially essential for manufacturing and selling implementations of the GSM Standards.  
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**Company:** Siemens  
**Project:** GSM  
**Title:** Method for transmission of packet data in a mobile radio network  
**Country:** DE  
**Patent number:** 19549009  
**Countries applicable:** DE  
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**Company:** Siemens  
**Project:** GSM  
**Title:** Method for transmission of packet data in a mobile radio network  
**Country:** DE  
**Application number:** WO97/24891  
**Countries applicable:** CN, US, EP (AT, CH, DE, ES, GB)  
**Notes:** Siemens Aktiengesellschaft hereby declares that it owns patents or patent applications that are essential or potentially essential for manufacturing and selling implementations of the GSM Standards.  
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**Company:** Siemens  
**Project:** GSM  
**Title:** Method for transmission of subscriber data between network nodes  
**Country:** DE  
**Patent number:** 5839076  
**Countries applicable:** US  
**Notes:** Siemens Aktiengesellschaft hereby declares that it owns patents or patent applications that are essential or potentially essential for manufacturing and selling implementations of the GSM Standards.  
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**Company:** Siemens  
**Project:** GSM  
**Title:** Method for transmission of subscriber data between network nodes  
**Country:** DE  
**Application number:** 1137714  
**Countries applicable:** CN  
**Notes:** Siemens Aktiengesellschaft hereby declares that it owns patents or patent applications that are essential or potentially essential for manufacturing and selling implementations of the GSM Standards.  
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**Company:** Siemens  
**Project:** GSM  
**Title:** Method for transmission of subscriber data between network nodes  
**Country:** DE  
**Application number:** 961174  
**Countries applicable:** FI  
**Notes:** Siemens Aktiengesellschaft hereby declares that it owns patents or patent applications that are essential or potentially essential for manufacturing and selling implementations of the GSM Standards.  
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**Company:** Siemens  
**Project:** GSM  
**Title:** Method for transmission of subscriber data between network nodes  
**Country:** DE  
**Application number:** 0732861  
**Countries applicable:** DE, ES, FR, GB, IT, SE  
**Notes:** Siemens Aktiengesellschaft hereby declares that it owns patents or patent applications that are essential or potentially essential for manufacturing and selling implementations of the GSM Standards.  
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**Company:** Siemens  
**Project:** GSM  
**Title:** Method for transmission of subscriber data between network nodes  
**Country:** DE  
**Patent number:** 19509000  
**Countries applicable:** DE  
**Notes:** Siemens Aktiengesellschaft hereby declares that it owns patents or patent applications that are essential or potentially essential for manufacturing and selling implementations of the GSM Standards.  
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**Company:** Siemens  
**Project:** GSM  
**Title:** Method for usage of a service class mark for supplementary services  
**Country:** DE  
**Application number:** 0715473  
**Countries applicable:** DE, ES, FR, GB, IT, SE  
**Notes:** Siemens Aktiengesellschaft hereby declares that it owns patents or patent applications that are essential or potentially essential for manufacturing and selling implementations of the GSM Standards.  
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**Company:** Siemens  
**Project:** GSM  
**Title:** Method for usage of a service class mark for supplementary services  
**Country:** DE  
**Application number:** 955737  
**Countries applicable:** FI  
**Notes:** Siemens Aktiengesellschaft hereby declares that it owns patents or patent applications that are essential or potentially essential for manufacturing and selling implementations of the GSM Standards.  
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**Company:** Siemens  
**Project:** GSM  
**Title:** Method for usage of a service class mark for supplementary services  
**Country:** DE  
**Application number:** P4442305.5  
**Countries applicable:** DE  
**Notes:** Siemens Aktiengesellschaft hereby declares that it owns patents or patent applications that are essential or potentially essential for manufacturing and selling implementations of the GSM Standards.  
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**Company:** Siemens  
**Project:** GSM  
**Title:** Method of Jam-Resistent Communication Transmission  
**Country:** CA  
**Application number:** CA 1238 951  
**Countries applicable:** CA  
**Notes:** Siemens AG declares that it has existing patents or may in the future obtain patents, which are essential or potentially essential for manufacturing and selling implementations of the GSM Standards and/or the DCS 1800 Standards.

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**Company:** Siemens  
**Project:** GSM  
**Title:** Method of Jam-Resistent Communication Transmission  
**Country:** DE  
**Patent number:** DE 30 23 375  
**Countries applicable:** DE  
**Notes:** Siemens AG declares that it has existing patents or may in the future obtain patents, which are essential or potentially essential for manufacturing and selling implementations of the GSM Standards and/or the DCS 1800 Standards.

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**Company:** Siemens  
**Project:** GSM  
**Title:** Method of Jam-Resistent Communication Transmission  
**Country:** US  
**Patent number:** US 4,843,612  
**Countries applicable:** US  
**Notes:** Siemens AG declares that it has existing patents or may in the future obtain patents, which are essential or potentially essential for manufacturing and selling implementations of the GSM Standards and/or the DCS 1800 Standards.

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**Company:** Siemens  
**Project:** GSM  
**Title:** Method, base station and subscriber station for channel coding in a GSM mobile radio telephone system  
**Country:** DE  
**Application number:** WO00/31880  
**Countries applicable:** AU, BR, CA, CN, HU, ID, IN, JP, KR, MX, RU, US, EP (AT, DE, ES, FI, FR, GB, IT, SE)  
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**Company:** Siemens  
**Project:** GSM  
**Title:** Method, base station and subscriber station for channel coding in a GSM mobile radio telephone system  
**Country:** DE  
**Application number:** 19853443  
**Countries applicable:** DE  
**Notes:** Siemens Aktiengesellschaft hereby declares that it owns patents or patent applications that are essential or potentially essential for manufacturing and selling implementations of the GSM Standards.  
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**Company:** Siemens  
**Project:** GSM  
**Title:** Timing Advance Control  
**Country:** EPC  
**Patent number:** EP 0 240 821  
**Countries applicable:** AT, DE, ES, FR, GB, IT, SE  
**Notes:** Siemens AG declares that it has existing patents or may in the future obtain patents, which are essential or potentially essential for manufacturing and selling implementations of the GSM Standards and/or the DCS 1800 Standards.

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**Company:** Sun Microsystems, Inc.  
**Project:** GSM  
**Country:** n/a  
**Standard(s):** GSM 03.19  
**Notes:** We believe Sun Microsystems, Inc. ("Sun") may have Essential IPR relating to GSM 03.19, and Sun is prepared to grant licenses under such IPR on fair, reasonable and non discriminatory terms and conditions to the extent required by Section 6.1 of Annex 6 (ETSI Intellectual Property Rights Policy). I should point out that Sun has already granted licenses for the use of our Java Card technology to most of the existing SIM card manufacturers. We believe that the terms and conditions of these agreements satisfy the standard of fair, reasonable and non-discriminatory.

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**Company:** Telia AB  
**Project:** GSM  
**Title:** A Method and an Arrangement for dynamic allocation of Multiple Carrier Wave Channels for Multiple access by Frequency Division M  
**Country:** EPC  
**Application number:** 94900333.9

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**Company:** Telia AB  
**Project:** GSM  
**Title:** A Method and Arrangement for Performance Monitoring in a Telecommunications Network  
**Country:** EPC  
**Application number:** 92850263.2

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**Company:** Telia AB  
**Project:** GSM  
**Title:** A Mobile Telecommunication System having aa Auxilliary Routing Arrangement  
**Country:** EPC  
**Application number:** 92850286.3

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**Company:** Telia AB  
**Project:** GSM  
**Title:** Anntenna Arrangement Device  
**Country:** EPC  
**Application number:** 92850035.2

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**Company:** Telia AB  
**Project:** GSM  
**Title:** Arrangement in Mobile Communication System for extending the range between one or more Mobile Units and Base Stations  
**Country:** EPC  
**Application number:** 94904363.2

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**Company:** Telia AB  
**Project:** GSM  
**Title:** Device for increasing the speed in a Digital Mobile Radio System  
**Country:** EPC  
**Application number:** 95850184.3

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**Company:** Telia AB  
**Project:** GSM  
**Title:** Method and Arrangement for increasing capacity in a Mobile Telephone System  
**Country:** EPC  
**Application number:** 91903207.8  
**Patent number:** 0 513 089 B1

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**Company:** Telia AB  
**Project:** GSM  
**Title:** Method for locating Mobile Stations in a Digital Telephone Network  
**Country:** EPC  
**Application number:** 94850095.4

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**Company:** Telia AB  
**Project:** GSM  
**Title:** Method of Location in a Mobile Radio System  
**Country:** EPC  
**Application number:** 91916715.5  
**Patent number:** 0 551 310 B1

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**Company:** Telia AB  
**Project:** GSM  
**Title:** Procedure at Telecommunications Systems which makes possible a reduction of the Digital Processing  
**Country:** PCT  
**Application number:** PCT/SE 95/00850

## HDSL

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**Company:** Nokia  
**Project:** HDSL  
**Title:** Method For Connecting An HDSL Transmission Link To A SDH Network  
**Country:** AU  
**Application number:** AU 20202/95  
**Patent number:** AU 9520202  
**Standard(s):** ETR 152, RTR/TM-06002

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**Company:** Nokia  
**Project:** HDSL  
**Title:** Method For Connecting An HDSL Transmission Link To A SDH Network  
**Country:** EPC  
**Application number:** EP 95303476.6  
**Patent number:** EP 683580  
**Countries applicable:** AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE  
**Standard(s):** ETR 152, RTR/TM-06002

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**Company:** Nokia  
**Project:** HDSL  
**Title:** Method For Connecting An HDSL Transmission Link To A SDH Network  
**Country:** FI  
**Application number:** FI 942372  
**Patent number:** FI 96080  
**Standard(s):** ETR 152, RTR/TM-06002

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**Company:** Nokia  
**Project:** HDSL  
**Title:** Method For Connecting An HDSL Transmission Link To A SDH Network  
**Country:** NZ  
**Application number:** NZ 272163  
**Patent number:** NZ 272163  
**Standard(s):** ETR 152, RTR/TM-06002



## HIPERLAN

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**Company:** INRIA  
**Project:** HIPERLAN  
**Title:** Installation de Transmission de Données de Type Réseau Radio, et Procédé Correspondant  
**Country:** CA  
**Application number:** 2 132 626  
**Countries applicable:** CA  
**Standard(s):** ETS 300 652

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**Company:** INRIA  
**Project:** HIPERLAN  
**Title:** Installation de Transmission de Données de Type Réseau Radio, et Procédé Correspondant  
**Country:** Europe  
**Application number:** 94 905 162  
**Standard(s):** ETS 300 652

---

**Company:** INRIA  
**Project:** HIPERLAN  
**Title:** Installation de Transmission de Données de Type Réseau Radio, et Procédé Correspondant  
**Country:** FR  
**Application number:** 93 00750  
**Countries applicable:** FR  
**Standard(s):** ETS 300 652

---

**Company:** INRIA  
**Project:** HIPERLAN  
**Title:** Installation de Transmission de Données de Type Réseau Radio, et Procédé Correspondant  
**Country:** FR  
**Application number:** 95 09928  
**Countries applicable:** FR  
**Standard(s):** ETS 300 652

---

**Company:** INRIA  
**Project:** HIPERLAN  
**Title:** Installation de Transmission de Données de Type Réseau Radio, et Procédé Correspondant  
**Country:** JP  
**Application number:** 6-516756  
**Countries applicable:** JP  
**Standard(s):** ETS 300 652

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**Company:** INRIA  
**Project:** HIPERLAN  
**Title:** Installation de Transmission de Données de Type Réseau Radio, et Procédé Correspondant  
**Country:** US  
**Application number:** 08/307,578  
**Countries applicable:** US  
**Standard(s):** ETS 300 652

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**Company:** INRIA  
**Project:** HIPERLAN  
**Title:** Installation de Type Réseau Radio de Transmission de Données, avec Routage  
**Country:** FR  
**Application number:** 95 09928  
**Countries applicable:** FR  
**Standard(s):** ETS 300 652

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**Company:** Wi-Lan Inc.  
**Project:** HIPERLAN 2  
**Title:** Method & Apparatus for Multiple Access between Transceivers in Wireless Communications using OFDM Spread Spectrum  
**Country:** Canada  
**Application number:** 861,725  
**Patent number:** 5,282,222  
**Countries applicable:** USA  
**Standard(s):** 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

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**Company:** Ericsson  
**Project:** ISDN  
**Title:** TC-relay mechanism feature  
**Country:** n/a  
**Standard(s):** ETS 300 287  
**Notes:** 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.

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**Company:** KPN  
**Project:** ISDN  
**Country:** n/a  
**Patent number:** WO98/49819  
**Standard(s):** 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.

---

**Company:** Robert Bosch GmbH  
**Project:** ISDN  
**Title:** Verfahren und Schaltungsanordnung zum Betreiben von Endgeräten eines digitalen Teilnehmeranschlusses  
**Country:** DE  
**Patent number:** DE 33 22 152 C2  
**Countries applicable:** DE  
**Standard(s):** ETS 300 012

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**Company:** Robert Bosch GmbH  
**Project:** ISDN  
**Title:** Verfahren zum Betreiben von Endgeräten eines digitalen Teilnehmeranschlusses  
**Country:** DE  
**Patent number:** DE 33 11 386 C2  
**Countries applicable:** DE  
**Standard(s):** ETS 300 012

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**Company:** Telia AB  
**Project:** ISDN  
**Country:** n/a  
**Application number:** 08/860,467  
**Patent number:** 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:** Telia AB  
**Project:** ISDN  
**Country:** n/a  
**Application number:** 973109  
**Patent number:** Pending  
**Countries applicable:** NO  
**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:** Telia AB  
**Project:** ISDN  
**Country:** n/a  
**Patent number:** 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:** Telia AB  
**Project:** ISDN  
**Country:** n/a  
**Application number:** 96938566  
**Patent number:** Pending  
**Countries applicable:** EP  
**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.

## Lawful Interception (LI)

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**Company:** Alcatel  
**Project:** Lawful Interception  
**Title:** Procédé et équipement d'interception de communication téléphonique  
**Country:** FR  
**Application number:** 98402659.1  
**Countries applicable:** AT, BE, DE, IT, ES, SE, GB  
**Standard(s):** 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.

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**Company:** Alcatel  
**Project:** Lawful Interception  
**Title:** Procédé et équipement d'interception de communication téléphonique  
**Country:** FR  
**Application number:** 98402659.1  
**Countries applicable:** AT, BE, DE, IT, ES, SE, GB  
**Standard(s):** 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:** 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:** SE  
**Application number:** WO 98/52 337  
**Patent number:** US-5930698  
**Countries applicable:** US  
**Standard(s):** 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.

## PSTN

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**Company:** AT&T  
**Project:** PSTN  
**Title:** Transmission During Ringing  
**Country:** BE  
**Patent number:** 0,150,181  
**Countries applicable:** BE  
**Standard(s):** ETS 300 659-1

---

**Company:** AT&T  
**Project:** PSTN  
**Title:** Transmission During Ringing  
**Country:** CA  
**Patent number:** 1,225,726  
**Countries applicable:** CA  
**Standard(s):** ETS 300 659-1

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**Company:** AT&T  
**Project:** PSTN  
**Title:** Transmission During Ringing  
**Country:** DE  
**Patent number:** 3,376,377  
**Countries applicable:** DE  
**Standard(s):** ETS 300 659-1

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**Company:** AT&T  
**Project:** PSTN  
**Title:** Transmission During Ringing  
**Country:** FR  
**Patent number:** 0,150,181  
**Countries applicable:** FR  
**Standard(s):** ETS 300 659-1

---

**Company:** AT&T  
**Project:** PSTN  
**Title:** Transmission During Ringing  
**Country:** GB  
**Patent number:** 0,150,181  
**Countries applicable:** GB  
**Standard(s):** ETS 300 659-1

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**Company:** AT&T  
**Project:** PSTN  
**Title:** Transmission During Ringing  
**Country:** IPC  
**Patent number:** WO 85/00488  
**Countries applicable:** AT, AU, BE, BR, CH, DE, DK, FI, FR, GB, JP, LU, NL, NO, SE, SU  
**Standard(s):** ETS 300 659-1

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**Company:** AT&T  
**Project:** PSTN  
**Title:** Transmission During Ringing  
**Country:** JP  
**Patent number:** 1,832,616  
**Countries applicable:** JP  
**Standard(s):** ETS 300 659-1

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**Company:** AT&T  
**Project:** PSTN  
**Title:** Transmission During Ringing  
**Country:** NL  
**Patent number:** 0,150,181  
**Countries applicable:** NL  
**Standard(s):** ETS 300 659-1

---

**Company:** AT&T  
**Project:** PSTN  
**Title:** Transmission During Ringing  
**Country:** SE  
**Patent number:** 0,150,181  
**Countries applicable:** SE  
**Standard(s):** ETS 300 659-1

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**Company:** AT&T  
**Project:** PSTN  
**Title:** Transmission During Ringing  
**Country:** US  
**Patent number:** 4,582,956  
**Countries applicable:** US  
**Standard(s):** ETS 300 659-1

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**Company:** Nortel Northern Telecom Ltd.  
**Project:** PSTN  
**Country:** GB  
**Patent number:** GB 2 2588 119 B  
**Countries applicable:** GB  
**Standard(s):** ETS 300 659-2



## RES

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**Company:** BT  
**Project:** RES  
**Country:** PCT  
**Application number:** PCT/GB 92/02102  
**Patent number:** Published WO93/10623  
**Countries applicable:** A, DE, DK, ES, FR, GB, GR, IE, IT, NL, SE

## SDSL

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**Company:** Siemens  
**Project:** SDSL  
**Country:** 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.

## STAG

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**Company:** KPN  
**Project:** STAG  
**Title:** Monitoring Method and Monitoring System  
**Country:** n/a  
**Patent number:** EP 823187  
**Countries applicable:** NL, USA  
**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:** KPN  
**Project:** STAG  
**Title:** Monitoring Method and Monitoring System  
**Country:** n/a  
**Patent number:** WO 96/34506  
**Countries applicable:** NL, USA  
**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:** Philips  
**Project:** Television systems  
**Country:** EPC  
**Patent number:** EP-A 0 538 466  
**Standard(s):** ETS 300 732

## TETRA

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**Company:** Alcatel  
**Project:** TETRA  
**Title:** Dummy Burst Structure  
**Country:** AU  
**Application number:** 94-74213  
**Patent number:** 9474213  
**Countries applicable:** AU  
**Notes:** Part 2: Air interface

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**Company:** Alcatel  
**Project:** TETRA  
**Title:** Dummy Burst Structure  
**Country:** CA  
**Application number:** 94-2133139  
**Patent number:** 2133139  
**Countries applicable:** CA  
**Notes:** Part 2: Air interface

---

**Company:** Alcatel  
**Project:** TETRA  
**Title:** Dummy Burst Structure  
**Country:** EPC  
**Application number:** EP 94 402 160  
**Patent number:** EP 0 645 903  
**Countries applicable:** AT, BE, DK, FR, DE, IT, NL, ES, SE, CH, GB  
**Notes:** Part 2: Air interface

---

**Company:** Alcatel  
**Project:** TETRA  
**Title:** Dummy Burst Structure  
**Country:** FR  
**Application number:** 93 11 572  
**Patent number:** 2710805  
**Countries applicable:** FR  
**Notes:** Part 2: Air interface

---

**Company:** Alcatel  
**Project:** TETRA  
**Title:** Dummy Burst Structure  
**Country:** JP  
**Application number:** 235504/94  
**Patent number:** 170580/95  
**Countries applicable:** JP  
**Notes:** Part 2: Air interface

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**Company:** Alcatel  
**Project:** TETRA  
**Title:** Dummy Burst Structure  
**Country:** US  
**Application number:** 94-313798  
**Patent number:** 5,583,870  
**Countries applicable:** US  
**Notes:** Part 2: Air interface

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**Company:** Alcatel  
**Project:** TETRA  
**Title:** Method and device for interleaving a sequence of data elements  
**Country:** FR  
**Patent number:** US 5,742,612  
**Countries applicable:** US  
**Standard(s):** 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.

---

**Company:** Alcatel  
**Project:** TETRA  
**Title:** Method for forming Groups of Communication Terminals  
**Country:** EPC  
**Application number:** EP 94 200 739  
**Patent number:** EP 0 675 660  
**Countries applicable:** AT, BE, FR, DE, IT, NL, ES, SE, CH, GB

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**Company:** Alcatel  
**Project:** TETRA  
**Title:** Method for forming Groups of Communication Terminals  
**Country:** US  
**Application number:** 408628  
**Patent number:** 5,625,886  
**Countries applicable:** US  
**Notes:** Part 2: Air interface

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**Company:** Alcatel  
**Project:** TETRA  
**Title:** Power Control for Radio Access  
**Country:** AU  
**Application number:** 94-57661  
**Patent number:** 9457661  
**Countries applicable:** AU  
**Notes:** Part 2: Air interface

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**Company:** Alcatel  
**Project:** TETRA  
**Title:** Power Control for Radio Access  
**Country:** EPC  
**Application number:** EP 94 400 502  
**Patent number:** EP 0 615 353  
**Countries applicable:** BE, FR, DE, IT, NL, ES, SE, GB  
**Notes:** Part 2: Air interface

---

**Company:** Alcatel  
**Project:** TETRA  
**Title:** Power Control for Radio Access  
**Country:** FI  
**Application number:** 94-1066  
**Patent number:** 9401066  
**Countries applicable:** FI  
**Notes:** Part 2: Air interface

---

**Company:** Alcatel  
**Project:** TETRA  
**Title:** Power Control for Radio Access  
**Country:** FR  
**Application number:** 93 02 701  
**Patent number:** 2 702 614  
**Countries applicable:** FR  
**Notes:** Part 2: Air interface

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**Company:** Alcatel  
**Project:** TETRA  
**Title:** Power Control for Radio Access  
**Country:** JP  
**Application number:** 94-38813  
**Patent number:** 07007469  
**Countries applicable:** JP  
**Notes:** Part 2: Air interface

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**Company:** Alcatel  
**Project:** TETRA  
**Title:** Power Control for Radio Access  
**Country:** US  
**Application number:** 94-207687  
**Patent number:** 5,564,075  
**Countries applicable:** US  
**Notes:** Part 2: Air interface

---

**Company:** Alcatel  
**Project:** TETRA  
**Title:** Procédé et dispositif d'entrelacement d'une séquence d'éléments de données  
**Country:** FR  
**Patent number:** EP 0 627 821  
**Countries applicable:** BE, FR, DE, IT, LU, NL, PT, ES, SE, CH, GB  
**Standard(s):** 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.

---

**Company:** Alcatel  
**Project:** TETRA  
**Title:** Procédé et dispositif d'entrelacement d'une séquence d'éléments de données  
**Country:** FR  
**Application number:** 94 2 512  
**Countries applicable:** FI  
**Standard(s):** 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.

---

**Company:** Alcatel  
**Project:** TETRA  
**Title:** Procédé et dispositif d'entrelacement d'une séquence d'éléments de données  
**Country:** FR  
**Patent number:** FR 2 706 054  
**Countries applicable:** FR  
**Standard(s):** 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:** Alcatel  
**Project:** TETRA  
**Title:** Time Slot Stealing in a multiplexed Radio System  
**Country:** EPC  
**Application number:** EP 94 401 946  
**Patent number:** EP 0 642 285  
**Countries applicable:** AT, BE, DK, FR, DE, IT, NL, ES, SE, CH, GB  
**Notes:** Part 2: Air interface

---

**Company:** Alcatel  
**Project:** TETRA  
**Title:** Time Slot Stealing in a multiplexed Radio System  
**Country:** FI  
**Application number:** 94-4038  
**Patent number:** 9404038  
**Countries applicable:** FI  
**Notes:** Part 2: Air interface

---

**Company:** Alcatel  
**Project:** TETRA  
**Title:** Time Slot Stealing in a multiplexed Radio System  
**Country:** FR  
**Application number:** 93 105 67  
**Patent number:** 2 709 893  
**Countries applicable:** FR  
**Notes:** Part 2: Air interface

---

**Company:** Alcatel  
**Project:** TETRA  
**Title:** Time Slot Stealing in a multiplexed Radio System  
**Country:** JP  
**Application number:** 213006/94  
**Patent number:** 254879/95  
**Countries applicable:** JP  
**Notes:** Part 2: Air interface

---

**Company:** Alcatel  
**Project:** TETRA  
**Title:** Time Slot Stealing in a multiplexed Radio System  
**Country:** US  
**Application number:** 299 654  
**Patent number:** 5,511,072  
**Countries applicable:** US  
**Notes:** Part 2: Air interface

---

**Company:** Marconi Communications Ltd.  
**Project:** TETRA  
**Country:** n/a  
**Patent number:** 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:** Marconi Communications Ltd.  
**Project:** TETRA  
**Title:** A Communication System  
**Country:** DE  
**Application number:** 87307453.8  
**Patent number:** 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:** Marconi Communications Ltd.  
**Project:** TETRA  
**Title:** A Communication System  
**Country:** FR  
**Application number:** 87307453.8  
**Patent number:** 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.



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**Company:** Marconi Communications Ltd.  
**Project:** TETRA  
**Title:** A Communication System  
**Country:** GB  
**Application number:** 8628497  
**Patent number:** 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.

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**Company:** Marconi Communications Ltd.  
**Project:** TETRA  
**Title:** A Communication System  
**Country:** IT  
**Application number:** 70146/BE/93  
**Patent number:** 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.

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**Company:** Marconi Communications Ltd.  
**Project:** TETRA  
**Title:** A Communication System  
**Country:** US  
**Application number:** 125469  
**Patent number:** 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.

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**Company:** Marconi Communications Ltd.  
**Project:** TETRA  
**Title:** Communication Systems and Stations for such a System  
**Country:** GB  
**Application number:** 8723162  
**Patent number:** 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.

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**Company:** Marconi Communications Ltd.  
**Project:** TETRA  
**Title:** Data Transmission System  
**Country:** GB  
**Application number:** 8428154  
**Patent number:** 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:** Marconi Communications Ltd.  
**Project:** TETRA  
**Title:** Signal Strength Measurement  
**Country:** GB  
**Application number:** 8915399.3  
**Patent number:** 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.

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**Company:** Marconi Communications Ltd.  
**Project:** TETRA  
**Title:** Signal Transmission System  
**Country:** GB  
**Application number:** 9005197.0  
**Patent number:** 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.

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**Company:** 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:** EPC  
**Patent number:** EP 0 269 643  
**Countries applicable:** AT, BE, DK, DE (P3787788.7), FR, GB, IT, NL, SE, CH

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**Company:** Motorola  
**Project:** TETRA  
**Title:** Communications Apparatus  
**Country:** GB  
**Application number:** GB9119186.6  
**Countries applicable:** GB

---

**Company:** Motorola  
**Project:** TETRA  
**Title:** Improved Dispatched Trunked Radio System  
**Country:** EPC  
**Patent number:** EP 0 210 181  
**Countries applicable:** AT, BE, FR, GB, DE (P3584248.2), IT, NL, SE, CH

---

**Company:** Motorola  
**Project:** TETRA  
**Title:** Packet-Switched Cellular Telephone System  
**Country:** EPC  
**Application number:** 89101118.1  
**Countries applicable:** AT, BE, FR, DE, GB, GR, IT, LI, LU, NL, ES, SE, CH

---

**Company:** Motorola  
**Project:** TETRA  
**Title:** Radio System  
**Country:** EPC  
**Application number:** 93922524.9  
**Countries applicable:** AT, DK, DE, GB, ES, SE

---

**Company:** Motorola  
**Project:** TETRA  
**Title:** Radio System  
**Country:** FI  
**Application number:** 943189  
**Countries applicable:** FI

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**Company:** Motorola  
**Project:** TETRA  
**Title:** Radio System  
**Country:** HU  
**Application number:** P9401972  
**Countries applicable:** HU

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**Company:** Motorola  
**Project:** TETRA  
**Title:** Radio System  
**Country:** PL  
**Application number:** P-304341  
**Countries applicable:** PL

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**Company:** Motorola  
**Project:** TETRA  
**Title:** Radio System  
**Country:** Romania  
**Application number:** 94-01115  
**Countries applicable:** RO

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**Company:** Motorola  
**Project:** TETRA  
**Title:** Radio System  
**Country:** RU  
**Application number:** 94035751.0  
**Countries applicable:** RU

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**Company:** Motorola  
**Project:** TETRA  
**Title:** Radio System  
**Country:** TR  
**Patent number:** 28221

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**Company:** Motorola  
**Project:** TETRA  
**Title:** Selective System Scan for Multizone Radiotelephone Subscriber Units  
**Country:** EPC  
**Patent number:** EP 0 352 786  
**Countries applicable:** AT, BE, FR, DE (P68912672.7), GB, GR, IE, IT, LU, NL, ES, SE, CH

---

**Company:** Motorola  
**Project:** TETRA  
**Title:** Trunked Communication System with Nationwide Roaming Capability  
**Country:** EPC  
**Application number:** 89901513.5  
**Countries applicable:** AT, BE, FR, DE, GB, IT, LU, NL, SE, CH

---

**Company:** Nokia  
**Project:** TETRA  
**Title:** Call Control In A Digital TDMA Radio System  
**Country:** AU  
**Application number:** AU 58176/94  
**Patent number:** AU 671348

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**Company:** Nokia  
**Project:** TETRA  
**Title:** Call Control In A Digital TDMA Radio System  
**Country:** CN  
**Application number:** CN 94190016.9  
**Patent number:** CN 1101490

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**Company:** Nokia  
**Project:** TETRA  
**Title:** Call Control In A Digital TDMA Radio System  
**Country:** EPC  
**Application number:** EP 94903913.5  
**Patent number:** EP 630548  
**Countries applicable:** AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE

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**Company:** Nokia  
**Project:** TETRA  
**Title:** Call Control In A Digital TDMA Radio System  
**Country:** FI  
**Application number:** FI 930096  
**Patent number:** FI 92274

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**Company:** Nokia  
**Project:** TETRA  
**Title:** Call Control In A Digital TDMA Radio System  
**Country:** JP  
**Application number:** JP 6-515724  
**Patent number:** JP 7504793

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**Company:** Nokia  
**Project:** TETRA  
**Title:** Call Control In A Digital TDMA Radio System  
**Country:** NO  
**Application number:** NO 943346  
**Patent number:** NO 9403346

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**Company:** Nokia  
**Project:** TETRA  
**Title:** Call Control In A Digital TDMA Radio System  
**Country:** US  
**Application number:** US 08/302787  
**Patent number:** US 5485635

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**Company:** Nokia  
**Project:** TETRA  
**Title:** Method For Establishing Connection Between Communication Devices  
**Country:** AU  
**Application number:** AU 54673/94  
**Patent number:** AU 674362

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**Company:** Nokia  
**Project:** TETRA  
**Title:** Method For Establishing Connection Between Communication Devices  
**Country:** EPC  
**Application number:** EP 94900171.3  
**Patent number:** 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:** Nokia  
**Project:** TETRA  
**Title:** Method For Establishing Connection Between Communication Devices  
**Country:** FI  
**Application number:** FI 925236  
**Patent number:** FI 96156

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**Company:** Nokia  
**Project:** TETRA  
**Title:** Method For Establishing Connection Between Communication Devices  
**Country:** JP  
**Application number:** JP 6-511767  
**Patent number:** JP 8503112

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**Company:** Nokia  
**Project:** TETRA  
**Title:** Method For Establishing Connection Between Communication Devices  
**Country:** PCT  
**Application number:** PCT/FI93/00486  
**Patent number:** WO 9411997

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**Company:** Nokia  
**Project:** TETRA  
**Title:** Method For Establishing Connection Between Communication Devices  
**Country:** US  
**Application number:** US 08/436, 185  
**Patent number:** US 5633913

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**Company:** Nokia  
**Project:** TETRA  
**Title:** Method For Realising A Group Call In A Digital Radio Network  
**Country:** AU  
**Application number:** AU 25722/92  
**Patent number:** AU 665573

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**Company:** Nokia  
**Project:** TETRA  
**Title:** Method For Realising A Group Call In A Digital Radio Network  
**Country:** EPC  
**Application number:** EP 92919957.8  
**Patent number:** EP 606282  
**Countries applicable:** AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE

---

**Company:** Nokia  
**Project:** TETRA  
**Title:** Method For Realising A Group Call In A Digital Radio Network  
**Country:** FI  
**Application number:** FI 914656  
**Patent number:** FI 88986

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**Company:** Nokia  
**Project:** TETRA  
**Title:** Method For Realising A Group Call In A Digital Radio Network  
**Country:** PCT  
**Application number:** PCT/FI92/00248  
**Patent number:** WO 9307723

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**Company:** Nokia  
**Project:** TETRA  
**Title:** Method For Realising A Group Call In A Digital Radio Network  
**Country:** US  
**Application number:** US 08/211459  
**Patent number:** US 5594948

---

**Company:** Nokia  
**Project:** TETRA  
**Title:** Method, Mobile Exchange And Subscriber Station In A Mobile Radio System For Establishing A High-Priority Call  
**Country:** AU  
**Application number:** AU 74615/94  
**Patent number:** AU 674781

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**Company:** Nokia  
**Project:** TETRA  
**Title:** Method, Mobile Exchange And Subscriber Station In A Mobile Radio System For Establishing A High-Priority Call  
**Country:** CN  
**Application number:** CN 94190593.4  
**Patent number:** CN 1113406

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**Company:** Nokia  
**Project:** TETRA  
**Title:** Method, Mobile Exchange And Subscriber Station In A Mobile Radio System For Establishing A High-Priority Call  
**Country:** EPC  
**Application number:** EP 94924311.7  
**Patent number:** EP 664069  
**Countries applicable:** AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE

---

**Company:** Nokia  
**Project:** TETRA  
**Title:** Method, Mobile Exchange And Subscriber Station In A Mobile Radio System For Establishing A High-Priority Call  
**Country:** FI  
**Application number:** FI 933576  
**Patent number:** FI 95428

---

**Company:** Nokia  
**Project:** TETRA  
**Title:** Method, Mobile Exchange And Subscriber Station In A Mobile Radio System For Establishing A High-Priority Call  
**Country:** JP  
**Application number:** JP 7-506774  
**Patent number:** JP 8502639

---

**Company:** Nokia  
**Project:** TETRA  
**Title:** Method, Mobile Exchange And Subscriber Station In A Mobile Radio System For Establishing A High-Priority Call  
**Country:** PCT  
**Application number:** PCT/FI94/00348  
**Patent number:** WO 9505721

---

**Company:** Nokia  
**Project:** TETRA  
**Title:** Method, Mobile Exchange And Subscriber Station In A Mobile Radio System For Establishing A High-Priority Call  
**Country:** US  
**Application number:** US 08/416, 731  
**Patent number:** US 5634197

---

**Company:** Nokia  
**Project:** TETRA  
**Title:** Radio System  
**Country:** AU  
**Application number:** AU 55639/94  
**Patent number:** AU 683033

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**Company:** Nokia  
**Project:** TETRA  
**Title:** Radio System  
**Country:** EPC  
**Application number:** EP 94900833.8  
**Patent number:** EP 671097  
**Countries applicable:** AT, BE, CH, LI, DE, FR, GB, IT, NL, SE

---

**Company:** Nokia  
**Project:** TETRA  
**Title:** Radio System  
**Country:** FI  
**Application number:** FI 925431  
**Patent number:** FI 96656

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**Company:** Nokia  
**Project:** TETRA  
**Title:** Radio System  
**Country:** JP  
**Application number:** JP 6-512808  
**Patent number:** JP 8503587

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**Company:** Nokia  
**Project:** TETRA  
**Title:** Radio System  
**Country:** PCT  
**Application number:** PCT/FI93/00501  
**Patent number:** WO 9413089

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**Company:** Thomson-CSF  
**Project:** TETRA  
**Title:** Dynamic Codebook for Efficient Speech Coding Based on Algebraic Codes  
**Country:** CA  
**Application number:** 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:** Thomson-CSF  
**Project:** TETRA  
**Title:** Dynamic Codebook for Efficient Speech Coding Based on Algebraic Codes  
**Country:** EPC  
**Application number:** 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:** Thomson-CSF  
**Project:** TETRA  
**Title:** Dynamic Codebook for Efficient Speech Coding Based on Algebraic Codes  
**Country:** PCT  
**Application number:** PCT/CA90/00381  
**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:** Thomson-CSF  
**Project:** TETRA  
**Title:** Dynamic Codebook for Efficient Speech Coding Based on Algebraic Codes  
**Country:** US  
**Application number:** 927 528  
**Countries applicable:** US  
**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:** Thomson-CSF  
**Project:** TETRA  
**Title:** Procédés et Dispositif de Transmission Numérique de Signaux Vocaux par Voie Radio  
**Country:** EPC  
**Patent number:** 87/4028541

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**Company:** Thomson-CSF  
**Project:** TETRA  
**Title:** Procédés et Dispositif de Transmission Numérique de Signaux Vocaux par Voie Radio  
**Country:** FR  
**Application number:** 86/17877  
**Countries applicable:** FR

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## TFTS

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**Company:** BT  
**Project:** TFTS  
**Title:** Skyphone Fax Coder  
**Country:** IPC  
**Patent number:** GB 92/02102

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**Company:** BT  
**Project:** TFTS  
**Title:** Skyphone Fax Coder  
**Country:** PCT  
**Application number:** PCT/GB 92/10623  
**Countries applicable:** TA, DE, DK, ES, FR, GB, GR, IE, IT, NL, SE



## TIPHON

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**Company:** Telchemy  
**Project:** TIPHON  
**Title:** Dynamic Quality of Service Monitor  
**Country:** US  
**Application number:** 09/574,472  
**Countries applicable:** US  
**Standard(s):** 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:** Telchemy  
**Project:** TIPHON  
**Title:** Quality of Service Monitor for Multimedia Communications Systems  
**Country:** US  
**Application number:** 09/551,498  
**Countries applicable:** US  
**Standard(s):** 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:** AirTouch Communications  
**Project:** UMTS  
**Title:** CDMA Transmission Delay Method and Apparatus  
**Country:** US  
**Patent number:** 5,479,397  
**Countries applicable:** US

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**Company:** AirTouch Communications  
**Project:** UMTS  
**Title:** Cellular Telephone System  
**Country:** US  
**Patent number:** 4,932,049  
**Countries applicable:** US

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**Company:** AirTouch Communications  
**Project:** UMTS  
**Title:** Digital Microcells for Cellular Networks  
**Country:** US  
**Patent number:** 5,678,186  
**Countries applicable:** US

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**Company:** AirTouch Communications  
**Project:** UMTS  
**Title:** Frequency Signal Generator Apparatus and Method for Simulating Interference in Mobile Communications Systems  
**Country:** US  
**Patent number:** 5,220,680  
**Countries applicable:** US

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**Company:** AirTouch Communications  
**Project:** UMTS  
**Title:** In-Building Telephone Communication System  
**Country:** US  
**Patent number:** 5,349,631  
**Countries applicable:** US

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**Company:** AirTouch Communications  
**Project:** UMTS  
**Title:** Method and Apparatus for Fraud Control in Cellular Telephone Systems  
**Country:** US  
**Patent number:** 5,555,551  
**Countries applicable:** US

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**Company:** AirTouch Communications  
**Project:** UMTS  
**Title:** Method and Apparatus for Fraud Control in Cellular Telephone Systems Utilizing RF Signature Comparison  
**Country:** US  
**Patent number:** 5,420,910  
**Countries applicable:** US

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**Company:** AirTouch Communications  
**Project:** UMTS  
**Title:** Microcell System for Cellular Telephone Systems  
**Country:** US  
**Patent number:** 5,506,147  
**Countries applicable:** US

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**Company:** AirTouch Communications  
**Project:** UMTS  
**Title:** Microcell System in Digital Cellular  
**Country:** US  
**Patent number:** 5,243,598  
**Countries applicable:** US

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**Company:** AirTouch Communications  
**Project:** UMTS  
**Title:** Microcells for Digital Cellular Telephone Systems  
**Country:** US  
**Patent number:** 5,504,936  
**Countries applicable:** US

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**Company:** AirTouch Communications  
**Project:** UMTS  
**Title:** Network Management System  
**Country:** US  
**Patent number:** 5,285,494  
**Countries applicable:** US

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**Company:** AirTouch Communications  
**Project:** UMTS  
**Title:** Piggy-Back Number and Routing Isolation for Cellular Telephone Switches  
**Country:** US  
**Patent number:** 5,216,703  
**Countries applicable:** US

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**Company:** AirTouch Communications  
**Project:** UMTS  
**Title:** Satellite Mobile Communication System for Rural Service Areas  
**Country:** US  
**Patent number:** 5,081,703  
**Countries applicable:** US

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**Company:** AirTouch Communications  
**Project:** UMTS  
**Title:** Spectral Sharing Communication System with Minimal Inter-Signal Interference  
**Country:** US  
**Patent number:** 5,507,020  
**Countries applicable:** US

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**Company:** AirTouch Communications  
**Project:** UMTS  
**Title:** Zoned Microcell with Sector Scanning for Cellular Telephone System  
**Country:** US  
**Patent number:** 5,193,109  
**Countries applicable:** US

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**Company:** Alcatel  
**Project:** UMTS  
**Title:** TD-CDMA  
**Country:** 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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<b>Company:</b>	Alcatel
<b>Project:</b>	UMTS
<b>Title:</b>	W-CDMA, TD-CDMA
<b>Country:</b>	n/a
<b>Notes:</b>	Alcatel Alsthom, Compagnie 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.

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<b>Company:</b>	Canon
<b>Project:</b>	UMTS
<b>Title:</b>	UTRA
<b>Country:</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.

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<b>Company:</b>	CCETT
<b>Project:</b>	UMTS
<b>Country:</b>	n/a
<b>Notes:</b>	CCETT (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.

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<b>Company:</b>	Ericsson
<b>Project:</b>	UMTS
<b>Title:</b>	Adaptively Self-Correcting Modulation System and Method
<b>Country:</b>	SE
<b>Application number:</b>	068,087
<b>Patent number:</b>	US-5351016
<b>Countries applicable:</b>	GB, AU, IT, MX, NZ, US

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<b>Company:</b>	Ericsson
<b>Project:</b>	UMTS
<b>Title:</b>	Automatic Retransmission Request
<b>Country:</b>	SE
<b>Application number:</b>	332,114
<b>Patent number:</b>	US-5633874
<b>Countries applicable:</b>	US

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<b>Company:</b>	Ericsson
<b>Project:</b>	UMTS
<b>Title:</b>	Bandwidth Allocation
<b>Country:</b>	SE
<b>Application number:</b>	544,490
<b>Patent number:</b>	US-5729531
<b>Countries applicable:</b>	US

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<b>Company:</b>	Ericsson
<b>Project:</b>	UMTS
<b>Title:</b>	Best Server Selection in Layered Cellular Radio System
<b>Country:</b>	SE
<b>Application number:</b>	090,734
<b>Patent number:</b>	US-5499386
<b>Countries applicable:</b>	CO, US, TW, PH, ZA

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**Company:** Ericsson  
**Project:** UMTS  
**Title:** Calling Channel in CDMA Communications System  
**Country:** SE  
**Application number:** 226,470  
**Patent number:** US-5377183  
**Countries applicable:** AU, MX, NZ, TW, US

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**Company:** Ericsson  
**Project:** UMTS  
**Title:** CDMA Frequency Allocation  
**Country:** SE  
**Application number:** 868,038  
**Patent number:** US-5295153  
**Countries applicable:** AU, MX, NZ, TW, US

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**Company:** Ericsson  
**Project:** UMTS  
**Title:** CDMA Frequency Allocation  
**Country:** SE  
**Application number:** 162,948  
**Patent number:** US-5341397  
**Countries applicable:** US

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**Company:** Ericsson  
**Project:** UMTS  
**Title:** CDMA Subtractive Demodulation  
**Country:** SE  
**Application number:** 628,359  
**Patent number:** US-5151919  
**Countries applicable:** AU, BE, DE, DK, ES, FR, GB, AT, IT, LU, MX, MY, NL, RU, SE, TW, US, GR

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**Company:** Ericsson  
**Project:** UMTS  
**Title:** CDMA Subtractive Demodulation  
**Country:** SE  
**Application number:** 739, 446  
**Patent number:** US-5218619  
**Countries applicable:** AU, BE, CH, DE, DK, ES, FR, AT, GR, IT, LU, MX, MY, NL, SE, TW, US, GB

---

**Company:** Ericsson  
**Project:** UMTS  
**Title:** Cellular Digital Mobile Radio System and Method of Transmitting information in a Digital Cellular Mobile Radio System  
**Country:** SE  
**Application number:** 579,283  
**Patent number:** US-5088108  
**Countries applicable:** US

---

**Company:** Ericsson  
**Project:** UMTS  
**Title:** Decoding System for Distinguishing Different Types of Convolutionally Encoded Signals  
**Country:** SE  
**Application number:** 652,544  
**Patent number:** US-5230003  
**Countries applicable:** US, SG, GB

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**Company:** Ericsson  
**Project:** UMTS  
**Title:** Direct Sequence CDMA Coherent Uplink Detector  
**Country:** SE  
**Application number:** 235,527  
**Patent number:** US-5544156  
**Countries applicable:** US, NZ, SG

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**Company:** Ericsson  
**Project:** UMTS  
**Title:** Discontinuous CDMA Reception  
**Country:** SE  
**Application number:** 866, 555  
**Patent number:** US-5239557  
**Countries applicable:** MX, AU, NZ, US, TW

---

**Company:** Ericsson  
**Project:** UMTS  
**Title:** Diversity Radio Receiver Automatic Frequency Control  
**Country:** SE  
**Application number:** 774,215  
**Patent number:** US-5321850  
**Countries applicable:** US, TW, MX, GB

---

**Company:** Ericsson  
**Project:** UMTS  
**Title:** Duplex Power Control System in a Communications Network  
**Country:** SE  
**Application number:** 866,554  
**Patent number:** US-5345598  
**Countries applicable:** AU, NZ, TW, US

---

**Company:** Ericsson  
**Project:** UMTS  
**Title:** Dynamic Control of Transmitting Power at a Transmitter and Attenuation at a Receiver  
**Country:** SE  
**Application number:** 061,043  
**Patent number:** US-5669066  
**Countries applicable:** AU, US, PK, TR, TW, MX, ZA

---

**Company:** Ericsson  
**Project:** UMTS  
**Title:** Fast Walsh Transform Processor  
**Country:** SE  
**Application number:** 735,805  
**Patent number:** US-5357454  
**Countries applicable:** US, TW, SG, GB, FR

---

**Company:** Ericsson  
**Project:** UMTS  
**Title:** Handover Method for Mobile Radio System  
**Country:** SE  
**Application number:** 365,432  
**Patent number:** US-5109528  
**Countries applicable:** US, SG, SE, NO, NL, IT, HK, GB, FR, ES, DE

---

**Company:** Ericsson  
**Project:** UMTS  
**Title:** Handover Method for Mobile Radio System  
**Country:** SE  
**Application number:** 071,356  
**Patent number:** US-5327577  
**Countries applicable:** US

---

**Company:** Ericsson  
**Project:** UMTS  
**Title:** Load Sharing control for a Mobile cellular radio system  
**Country:** SE  
**Application number:** 669,865  
**Patent number:** US-5241685  
**Countries applicable:** US,SE,IT,GB,FR,ES,DE

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**Company:** Ericsson  
**Project:** UMTS  
**Title:** Low Capacity Mobile Assisted Handoff in a Cellular Communications Network  
**Country:** SE  
**Application number:** 103,135  
**Patent number:** US-5517674  
**Countries applicable:** US

---

**Company:** Ericsson  
**Project:** UMTS  
**Title:** Method and Apparatus for Concatenated Coding of Mobile Radio Signals  
**Country:** SE  
**Application number:** 678,314  
**Patent number:** US-5742619  
**Countries applicable:** US

---

**Company:** Ericsson  
**Project:** UMTS  
**Title:** Method and Apparatus for Enhancing Signalling Reliability in a Cellular Mobile Radio Telephone System  
**Country:** SE  
**Application number:** 604,522  
**Patent number:** US-5230082  
**Countries applicable:** AU, US, MX, NZ, TW

---

**Company:** Ericsson  
**Project:** UMTS  
**Title:** Method and Apparatus for Mobile Radio Communications having Switched Dual Frequency Synthesizers  
**Country:** SE  
**Application number:** 159,956  
**Patent number:** US-5448762  
**Countries applicable:** GB, US

---

**Company:** Ericsson  
**Project:** UMTS  
**Title:** Method and Apparatus for Spread Spectrum Channel Estimation  
**Country:** SE  
**Application number:** 504,339  
**Patent number:** US-5677930  
**Countries applicable:** US

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**Company:** Ericsson  
**Project:** UMTS  
**Title:** Method and System for Channel Allocation using Power Control and Mobile Assisted Handover Measurements  
**Country:** SE  
**Application number:** 207,032  
**Patent number:** US-5491837  
**Countries applicable:** US, SG

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**Company:** Ericsson  
**Project:** UMTS  
**Title:** Method and System for Demodulation of Downlink CDMA Signals  
**Country:** SE  
**Application number:** 187,062  
**Patent number:** US-5572552  
**Countries applicable:** US

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**Company:** Ericsson  
**Project:** UMTS  
**Title:** Method for Regulating Power in a Digital Mobile Telephony System  
**Country:** SE  
**Application number:** 712,930  
**Patent number:** 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:** Ericsson  
**Project:** UMTS  
**Title:** Method of Effecting Handover in a Mobile Multilayer cellular Radio System  
**Country:** SE  
**Application number:** 901,075  
**Patent number:** US-5392453  
**Countries applicable:** US, TW, SE, NL, MY, IT, GB, FR, DE, AU

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**Company:** Ericsson  
**Project:** UMTS  
**Title:** Method of Transmitting Signalling Messages in a Mobile Radio Communication System  
**Country:** SE  
**Application number:** 899,166  
**Patent number:** US-5182753  
**Countries applicable:** US

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**Company:** Ericsson  
**Project:** UMTS  
**Title:** Methods in a Cellular Mobile Radio Communications System  
**Country:** SE  
**Application number:** 035,797  
**Patent number:** US-5487174  
**Countries applicable:** AU, MX, NZ, TW, US

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**Company:** Ericsson  
**Project:** UMTS  
**Title:** Mobile Assisted Handoff  
**Country:** SE  
**Application number:** 354,779  
**Patent number:** US-5701585  
**Countries applicable:** US

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**Company:** Ericsson  
**Project:** UMTS  
**Title:** Mobile Assisted Handover Using CDMA  
**Country:** SE  
**Application number:** PCT/US93/03412  
**Patent number:** WO 93/21739  
**Countries applicable:** AU, NZ, TW

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**Company:** Ericsson  
**Project:** UMTS  
**Title:** Multiple Access Coding for Radio Communications  
**Country:** SE  
**Application number:** 866,865  
**Patent number:** US-5353352  
**Countries applicable:** AU, MX, NZ, TW, US

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**Company:** Ericsson  
**Project:** UMTS  
**Title:** Multiple Access Coding Using Bent Sequences for Mobile Radio Communications  
**Country:** SE  
**Application number:** 291,693  
**Patent number:** US-5550809  
**Countries applicable:** US



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**Company:** Ericsson  
**Project:** UMTS  
**Title:** Navigation Assistance for Call Handling in Mobile Telephone Systems  
**Country:** SE  
**Application number:** 384,334  
**Patent number:** US-5670964  
**Countries applicable:** US

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**Company:** Ericsson  
**Project:** UMTS  
**Title:** Navigation Assistance For Call Handling in Mobile Telephone Systems  
**Country:** SE  
**Application number:** 118,179  
**Patent number:** US-5404376  
**Countries applicable:** AU, MX, NZ, US, TW

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**Company:** Ericsson  
**Project:** UMTS  
**Title:** Prioritization between Handoff and New call Requests in a Cellular Communications System  
**Country:** SE  
**Application number:** 804,604  
**Patent number:** US-5301356  
**Countries applicable:** AU, DE, DK, ES, FR, AT, HK, IT, MX, NL, SE, TW, US, GB

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**Company:** Ericsson  
**Project:** UMTS  
**Title:** Random Access in Mobile Radio Telephone Systems  
**Country:** SE  
**Application number:** 222,008  
**Patent number:** US-5430760  
**Countries applicable:** AU, MX, NZ, US, TW

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**Company:** Ericsson  
**Project:** UMTS  
**Title:** System and Method for Joint Demodulation of CDMA Signals  
**Country:** SE  
**Application number:** 155,557  
**Patent number:** US-5506861  
**Countries applicable:** US, TW, GB, AU

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**Company:** Ericsson  
**Project:** UMTS  
**Title:** System and Method for Setting of Output Power Parameters in a Cellular Mobile Telecommunications System  
**Country:** SE  
**Application number:** 411,426  
**Patent number:** US-5634195  
**Countries applicable:** US

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**Company:** Ericsson  
**Project:** UMTS  
**Title:** TDMA for Mobile Access in a CDMA System  
**Country:** SE  
**Application number:** 866,579  
**Patent number:** US-5295152  
**Countries applicable:** AU, MX, NZ, TW, US

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**Company:** Ericsson  
**Project:** UMTS  
**Title:** TDMA/FDMA/CDMA Hybrid Radio Access Methods  
**Country:** SE  
**Application number:** 179,954  
**Patent number:** US-5539730  
**Countries applicable:** US, DE, IE, GB, FR, ZA, DK, ES, CH, BE, AT, GR, SE, IT, PT, NL, LU

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**Company:** Ericsson  
**Project:** UMTS  
**Title:** Time-Reuse and Code-Reuse partitioning and Methods for Cellular Radiotelephone Systems  
**Country:** SE  
**Application number:** PCT/US97/02857  
**Patent number:** WO 97/32441  
**Countries applicable:** TW

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**Company:** Ericsson  
**Project:** UMTS  
**Title:** Transceiver Algorithms of Antenna Arrays  
**Country:** SE  
**Application number:** 195,224  
**Patent number:** US-5566209  
**Countries applicable:** US

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**Company:** Ericsson  
**Project:** UMTS  
**Title:** W-CDMA, TD-CDMA  
**Country:** n/a  
**Notes:** 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.

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**Company:** France Telecom  
**Project:** UMTS  
**Country:** n/a  
**Countries applicable:** n/a  
**Notes:** 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 who seek licenses agree to reciprocate in licenses incorporating have made rights.

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**Company:** Fujitsu Limited  
**Project:** UMTS  
**Title:** W-CDMA  
**Country:** n/a  
**Notes:** 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.

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**Company:** Golden Bridge Technology (GBT)  
**Project:** UMTS  
**Title:** UTRA RTT Proposal  
**Country:** 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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<b>Company:</b>	Hitachi Ltd.
<b>Project:</b>	UMTS
<b>Title:</b>	n/a
<b>Country:</b>	n/a
<b>Application number:</b>	n/a
<b>Patent number:</b>	n/a
<b>Countries applicable:</b>	n/a
<b>Standard(s):</b>	n/a
<b>Notes:</b>	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.

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<b>Company:</b>	Italtel Spa
<b>Project:</b>	UMTS
<b>Title:</b>	TD-CDMA
<b>Country:</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)

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<b>Company:</b>	Lucent Technologies Inc.
<b>Project:</b>	UMTS
<b>Country:</b>	n/a
<b>Notes:</b>	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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<b>Company:</b>	Mitsubishi Electric Corporation
<b>Project:</b>	UMTS
<b>Country:</b>	JP
<b>Application number:</b>	JP10-080031
<b>Countries applicable:</b>	JP
<b>Notes:</b>	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 transmission mode), Tdoc SMG2 UMTS-L1 14/98 (Short code reuse on slotted DL transmission 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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<b>Company:</b>	Mitsubishi Electric Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	Method and Apparatus for Variable Rate Transmitter
<b>Country:</b>	JP
<b>Application number:</b>	JP9-16402
<b>Countries applicable:</b>	JP
<b>Standard(s):</b>	tdoc SMG2 UMTS A2/9, A3/97, A26/97, A69/97, A45/97, A46/97
<b>Notes:</b>	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:** Mitsubishi Electric Corporation  
**Project:** UMTS  
**Title:** Method and Apparatus for Variable Rate Transmitter  
**Country:** PCT  
**Application number:** PCT/JP97/03224  
**Countries applicable:** PCT  
**Standard(s):** 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:** Mitsubishi Electric Corporation  
**Project:** UMTS  
**Title:** Mobile radio communication system, communication apparatus for mobile communication system, and method for mobile radio communication system  
**Country:** JP  
**Application number:** 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 transmission mode), Tdoc SMG2 UMTS-L1 14/98 (Short code reuse on slotted DL transmission 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:** Motorola  
**Project:** UMTS  
**Title:** Digital speech coder having improved sub-sample resolution long-term predictor  
**Country:** USA  
**Application number:** n/a  
**Patent number:** 5,359,696  
**Countries applicable:** USA  
**Standard(s):** 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:** Motorola  
**Project:** UMTS  
**Title:** Dual Mode Radio Receiver with Scanning Capability  
**Country:** USA  
**Application number:** n/a  
**Patent number:** 4,872,204  
**Countries applicable:** USA  
**Standard(s):** 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:** Motorola  
**Project:** UMTS  
**Title:** Handoff apparatus and method with interference reduction for a radio system  
**Country:** USA  
**Application number:** n/a  
**Patent number:** 4,696,027  
**Countries applicable:** USA  
**Standard(s):** 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:** Motorola  
**Project:** UMTS  
**Title:** Method and apparatus for data transmission within a broadband communications system  
**Country:** USA  
**Application number:** n/a  
**Patent number:** 5,964,356  
**Countries applicable:** USA  
**Standard(s):** 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:** Motorola  
**Project:** UMTS  
**Title:** Method and apparatus for providing high data rate traffic channels in a spread spectrum communication system  
**Country:** USA  
**Application number:** n/a  
**Patent number:** 5,204,876  
**Countries applicable:** USA  
**Standard(s):** 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:** Motorola  
**Project:** UMTS  
**Title:** Method and apparatus for suppressing noise in a communication system  
**Country:** USA  
**Application number:** n/a  
**Patent number:** 5,659,622  
**Countries applicable:** USA  
**Standard(s):** 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:** Motorola  
**Project:** UMTS  
**Title:** Method and apparatus for transmitting information for multiple independent users in a communication system  
**Country:** USA  
**Application number:** n/a  
**Patent number:** 5,627,830  
**Countries applicable:** USA  
**Standard(s):** 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:** Motorola  
**Project:** UMTS  
**Title:** Packet-switched cellular phone system  
**Country:** USA  
**Application number:** n/a  
**Patent number:** 4,887,265  
**Countries applicable:** USA  
**Standard(s):** 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:** Motorola  
**Project:** UMTS  
**Title:** Radio arrangement having two radios sharing circuitry  
**Country:** USA  
**Application number:** n/a  
**Patent number:** 6,006,104  
**Countries applicable:** USA  
**Standard(s):** 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:** Motorola  
**Project:** UMTS  
**Title:** Radio arrangement having two radios sharing circuitry  
**Country:** USA  
**Application number:** n/a  
**Patent number:** 5,029,233  
**Countries applicable:** USA  
**Standard(s):** 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:** Motorola  
**Project:** UMTS  
**Title:** TD-CDMA  
**Country:** 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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<b>Company:</b>	Motorola
<b>Project:</b>	UMTS
<b>Title:</b>	Trunked communication system with nation-wide roaming capability
<b>Country:</b>	USA
<b>Application number:</b>	n/a
<b>Patent number:</b>	4,833,701
<b>Countries applicable:</b>	USA
<b>Standard(s):</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.

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<b>Company:</b>	Motorola
<b>Project:</b>	UMTS
<b>Title:</b>	Two way personal message system with extended coverage
<b>Country:</b>	USA
<b>Application number:</b>	n/a
<b>Patent number:</b>	4,644,351
<b>Countries applicable:</b>	USA
<b>Standard(s):</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.

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<b>Company:</b>	Motorola
<b>Project:</b>	UMTS
<b>Title:</b>	W-CDMA
<b>Country:</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.

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<b>Company:</b>	NEC Corporation
<b>Project:</b>	UMTS
<b>Title:</b>	W-CDMA
<b>Country:</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.

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<b>Company:</b>	Nokia
<b>Project:</b>	UMTS
<b>Title:</b>	W-CDMA
<b>Country:</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)

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<b>Company:</b>	Nortel Northern Telecom Ltd.
<b>Project:</b>	UMTS
<b>Title:</b>	TD-CDMA
<b>Country:</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)

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**Company:** Nortel Northern Telecom Ltd.  
**Project:** UMTS  
**Title:** W-CDMA  
**Country:** 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:** NTT  
**Project:** UMTS  
**Title:** W-CDMA  
**Country:** 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.

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**Company:** OKI Electric Industry Co., Ltd.  
**Project:** UMTS  
**Title:** CDMA receiver with weighted interference cancellation (UTRA)  
**Country:** Pending  
**Application number:** 97-31736  
**Patent number:** Pending  
**Countries applicable:** Korea

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**Company:** OKI Electric Industry Co., Ltd.  
**Project:** UMTS  
**Title:** CDMA receiver with weighted interference cancellation (UTRA)  
**Country:** Pending  
**Application number:** 883.959  
**Patent number:** Pending  
**Countries applicable:** US

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**Company:** OKI Electric Industry Co., Ltd.  
**Project:** UMTS  
**Title:** CDMA receiver with weighted interference cancellation (UTRA)  
**Country:** Pending  
**Application number:** 2.210.214  
**Patent number:** Pending  
**Countries applicable:** CA

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**Company:** OKI Electric Industry Co., Ltd.  
**Project:** UMTS  
**Title:** CDMA receiver with weighted interference cancellation (UTRA)  
**Country:** Pending  
**Application number:** 08-183593  
**Patent number:** Pending  
**Countries applicable:** JP

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**Company:** OKI Electric Industry Co., Ltd.  
**Project:** UMTS  
**Title:** Channel modulation for code-division multiple-access systems (UTRA)  
**Country:** Pending  
**Application number:** 06-127933  
**Patent number:** Pending  
**Countries applicable:** JP

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**Company:** OKI Electric Industry Co., Ltd.  
**Project:** UMTS  
**Title:** Code division multiple access receiver with sequential interference-cancelling (UTRA)  
**Country:** US  
**Application number:** 95-2360  
**Patent number:** 5.579.304  
**Countries applicable:** Korea  
**Notes:** Pending for Japan, Korea and EPCDI.



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**Company:** OKI Electric Industry Co., Ltd.  
**Project:** UMTS  
**Title:** Code division multiple access receiver with sequential interference-cancelling (UTRA)  
**Country:** US  
**Application number:** 95103484,2  
**Patent number:** 5.579.304  
**Countries applicable:** EPCDI  
**Notes:** Pending for Japan, Korea and EPCDI.

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**Company:** OKI Electric Industry Co., Ltd.  
**Project:** UMTS  
**Title:** Code division multiple access receiver with sequential interference-cancelling (UTRA)  
**Country:** US  
**Application number:** 397.676  
**Patent number:** 5.579.304  
**Countries applicable:** US  
**Notes:** Pending for Japan, Korea and EPCDI.

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**Company:** OKI Electric Industry Co., Ltd.  
**Project:** UMTS  
**Title:** Code division multiple access receiver with sequential interference-cancelling (UTRA)  
**Country:** US  
**Application number:** 07-000349  
**Patent number:** 5.579.304  
**Countries applicable:** JP  
**Notes:** Pending for Japan, Korea and EPCDI.

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**Company:** OKI Electric Industry Co., Ltd.  
**Project:** UMTS  
**Title:** Saturation prevention system for radio telephone with open and close loop power control systems (UTRA)  
**Country:** US  
**Application number:** 08-110634  
**Patent number:** 5.689.815  
**Countries applicable:** JP  
**Notes:** Pending for Japan, Korea, Canada and Great Britain.

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**Company:** OKI Electric Industry Co., Ltd.  
**Project:** UMTS  
**Title:** Saturation prevention system for radio telephone with open and close loop power control systems (UTRA)  
**Country:** US  
**Application number:** 434.650  
**Patent number:** 5.689.815  
**Countries applicable:** US  
**Notes:** Pending for Japan, Korea, Canada and Great Britain.

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**Company:** OKI Electric Industry Co., Ltd.  
**Project:** UMTS  
**Title:** Saturation prevention system for radio telephone with open and close loop power control systems (UTRA)  
**Country:** US  
**Application number:** 9609267,1  
**Patent number:** 5.689.815  
**Countries applicable:** GB  
**Notes:** Pending for Japan, Korea, Canada and Great Britain.

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**Company:** OKI Electric Industry Co., Ltd.  
**Project:** UMTS  
**Title:** Saturation prevention system for radio telephone with open and close loop power control systems (UTRA)  
**Country:** US  
**Application number:** 96-14312  
**Patent number:** 5.689.815  
**Countries applicable:** Korea  
**Notes:** Pending for Japan, Korea, Canada and Great Britain.

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**Company:** OKI Electric Industry Co., Ltd.  
**Project:** UMTS  
**Title:** Saturation prevention system for radio telephone with open and close loop power control systems (UTRA)  
**Country:** US  
**Application number:** 2.175.749  
**Patent number:** 5.689.815  
**Countries applicable:** CA  
**Notes:** Pending for Japan, Korea, Canada and Great Britain.

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**Company:** OKI Electric Industry Co., Ltd.  
**Project:** UMTS  
**Title:** Spread code generation device for spread spectrum communication (UTRA)  
**Country:** US  
**Application number:** 06-091912  
**Patent number:** 5.631.922  
**Countries applicable:** JP  
**Notes:** Pending for Japan.

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**Company:** OKI Electric Industry Co., Ltd.  
**Project:** UMTS  
**Title:** Spread code generation device for spread spectrum communication (UTRA)  
**Country:** US  
**Application number:** 426.254  
**Patent number:** 5.631.922  
**Countries applicable:** US  
**Notes:** Pending for Japan.

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**Company:** OKI Electric Industry Co., Ltd.  
**Project:** UMTS  
**Title:** Spreading code generator and CDMA communication system (UTRA)  
**Country:** Pending  
**Application number:** 96111548,2  
**Patent number:** Pending  
**Countries applicable:** EPC

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**Company:** OKI Electric Industry Co., Ltd.  
**Project:** UMTS  
**Title:** Spreading code generator and CDMA communication system (UTRA)  
**Country:** Pending  
**Application number:** 07-192062  
**Patent number:** Pending  
**Countries applicable:** JP

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**Company:** OKI Electric Industry Co., Ltd.  
**Project:** UMTS  
**Title:** Spreading code generator and CDMA communication system (UTRA)  
**Country:** Pending  
**Application number:** 96-30635  
**Patent number:** Pending  
**Countries applicable:** Korea

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<b>Company:</b>	OKI Electric Industry Co., Ltd.
<b>Project:</b>	UMTS
<b>Title:</b>	Spreading code generator and CDMA communication system (UTRA)
<b>Country:</b>	Pending
<b>Application number:</b>	679.925
<b>Patent number:</b>	Pending
<b>Countries applicable:</b>	US

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<b>Company:</b>	OKI Electric Industry Co., Ltd.
<b>Project:</b>	UMTS
<b>Title:</b>	Spreading code generator and CDMA communication system (UTRA)
<b>Country:</b>	Pending
<b>Application number:</b>	2.181.637
<b>Patent number:</b>	Pending
<b>Countries applicable:</b>	CA

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<b>Company:</b>	Omnipoint
<b>Project:</b>	UMTS
<b>Title:</b>	W-CDMA, TD/CDMA
<b>Country:</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.

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<b>Company:</b>	Panasonic
<b>Project:</b>	UMTS
<b>Title:</b>	W-CDMA
<b>Country:</b>	n/a
<b>Notes:</b>	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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<b>Company:</b>	Philips
<b>Project:</b>	UMTS
<b>Country:</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.

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<b>Company:</b>	Qualcomm Inc.
<b>Project:</b>	UMTS
<b>Title:</b>	n/a
<b>Country:</b>	n/a
<b>Countries applicable:</b>	n/a
<b>Notes:</b>	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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<b>Company:</b>	Robert Bosch GmbH
<b>Project:</b>	UMTS
<b>Title:</b>	TD-CDMA
<b>Country:</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)

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**Company:** Robert Bosch GmbH  
**Project:** UMTS  
**Title:** TD-CDMA, W-CDMA  
**Country:** n/a  
**Notes:** 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:** Salbu Research & Development (pty) Ltd.  
**Project:** UMTS  
**Title:** Adaptive Communication System ODMA (enhancement to WBCDMA, TDCDMA)  
**Country:** ZA  
**Application number:** AP/P/96/00779  
**Patent number:** ZA 94/10066  
**Countries applicable:** ARIPO

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**Company:** Salbu Research & Development (pty) Ltd.  
**Project:** UMTS  
**Title:** Adaptive Communication System ODMA (enhancement to WBCDMA, TDCDMA)  
**Country:** ZA  
**Application number:** PI9503918  
**Patent number:** ZA 94/10066  
**Countries applicable:** MY

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**Company:** Salbu Research & Development (pty) Ltd.  
**Project:** UMTS  
**Title:** Adaptive Communication System ODMA (enhancement to WBCDMA, TDCDMA)  
**Country:** ZA  
**Application number:** PCT/GB95/02972  
**Patent number:** ZA 94/10066  
**Countries applicable:** PCT

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**Company:** Salbu Research & Development (pty) Ltd.  
**Project:** UMTS  
**Title:** Adaptive Communication System ODMA (enhancement to WBCDMA, TDCDMA)  
**Country:** ZA  
**Application number:** 8-519339  
**Patent number:** ZA 94/10066  
**Countries applicable:** JP

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**Company:** Salbu Research & Development (pty) Ltd.  
**Project:** UMTS  
**Title:** Adaptive Communication System ODMA (enhancement to WBCDMA, TDCDMA)  
**Country:** ZA  
**Application number:** 42682/96  
**Patent number:** ZA 94/10066  
**Countries applicable:** AU

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**Company:** Salbu Research & Development (pty) Ltd.  
**Project:** UMTS  
**Title:** Adaptive Communication System ODMA (enhancement to WBCDMA, TDCDMA)  
**Country:** ZA  
**Application number:** 95197655.9  
**Patent number:** ZA 94/10066  
**Countries applicable:** CN

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**Company:** Salbu Research & Development (pty) Ltd.  
**Project:** UMTS  
**Title:** Adaptive Communication System ODMA (enhancement to WBCDMA, TDCDMA)  
**Country:** ZA  
**Application number:** 297514  
**Patent number:** ZA 94/10066  
**Countries applicable:** NZ

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**Company:** Salbu Research & Development (pty) Ltd.  
**Project:** UMTS  
**Title:** Adaptive Communication System ODMA (enhancement to WBCDMA, TDCDMA)  
**Country:** ZA  
**Application number:** 97112107  
**Patent number:** ZA 94/10066  
**Countries applicable:** RU

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**Company:** Salbu Research & Development (pty) Ltd.  
**Project:** UMTS  
**Title:** Adaptive Communication System ODMA (enhancement to WBCDMA, TDCDMA)  
**Country:** ZA  
**Application number:** 95/10789  
**Patent number:** ZA 94/10066  
**Countries applicable:** ZA

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**Company:** Salbu Research & Development (pty) Ltd.  
**Project:** UMTS  
**Title:** Adaptive Communication System ODMA (enhancement to WBCDMA, TDCDMA)  
**Country:** ZA  
**Application number:** P952732  
**Patent number:** ZA 94/10066  
**Countries applicable:** ID

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**Company:** Salbu Research & Development (pty) Ltd.  
**Project:** UMTS  
**Title:** Adaptive Communication System ODMA (enhancement to WBCDMA, TDCDMA)  
**Country:** ZA  
**Application number:** n/a  
**Patent number:** ZA 94/10066  
**Countries applicable:** UA

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**Company:** Salbu Research & Development (pty) Ltd.  
**Project:** UMTS  
**Title:** Adaptive Communication System ODMA (enhancement to WBCDMA, TDCDMA)  
**Country:** ZA  
**Application number:** 2411/DEL/95  
**Patent number:** ZA 94/10066  
**Countries applicable:** IN

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**Company:** Salbu Research & Development (pty) Ltd.  
**Project:** UMTS  
**Title:** Adaptive Communication System ODMA (enhancement to WBCDMA, TDCDMA)  
**Country:** ZA  
**Application number:** 95/090  
**Patent number:** ZA 94/10066  
**Countries applicable:** NA

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**Company:** Salbu Research & Development (pty) Ltd.  
**Project:** UMTS  
**Title:** Adaptive Communication System ODMA (enhancement to WBCDMA, TDCDMA)  
**Country:** ZA  
**Application number:** 95941197.6  
**Patent number:** ZA 94/10066  
**Countries applicable:** Europe

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**Company:** Salbu Research & Development (pty) Ltd.  
**Project:** UMTS  
**Title:** Adaptive Communication System ODMA (enhancement to WBCDMA, TDCDMA)  
**Country:** ZA  
**Application number:** 08/849.875  
**Patent number:** ZA 94/10066  
**Countries applicable:** US

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**Company:** Salbu Research & Development (pty) Ltd.  
**Project:** UMTS  
**Title:** Adaptive Communication System ODMA (enhancement to WBCDMA, TDCDMA)  
**Country:** ZA  
**Application number:** PI9510251-5  
**Patent number:** ZA 94/10066  
**Countries applicable:** BR

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**Company:** Salbu Research & Development (pty) Ltd.  
**Project:** UMTS  
**Title:** Adaptive Communication System ODMA (enhancement to WBCDMA, TDCDMA)  
**Country:** ZA  
**Application number:** 97-704132  
**Patent number:** ZA 94/10066  
**Countries applicable:** Korea

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**Company:** Salbu Research & Development (pty) Ltd.  
**Project:** UMTS  
**Title:** Adaptive Communication System ODMA (enhancement to WBCDMA, TDCDMA)  
**Country:** ZA  
**Application number:** P972825  
**Patent number:** ZA 94/10066  
**Countries applicable:** NO

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**Company:** Salbu Research & Development (pty) Ltd.  
**Project:** UMTS  
**Title:** Adaptive Communication System ODMA (enhancement to WBCDMA, TDCDMA)  
**Country:** ZA  
**Application number:** 2.208.041  
**Patent number:** ZA 94/10066  
**Countries applicable:** CA

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**Company:** Salbu Research & Development (pty) Ltd.  
**Project:** UMTS  
**Title:** Enhanced Cellular Communication System ODMA (enhancement to WBCDMA, TDCDMA)  
**Country:** ZA  
**Patent number:** ZA 97/1819  
**Countries applicable:** ZA

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**Company:** Salbu Research & Development (pty) Ltd.  
**Project:** UMTS  
**Title:** Method of Operating a Multi-Station Network ODMA (enhancement to WBCDMA, TDCDMA)  
**Country:** ZA  
**Patent number:** ZA 97/5022  
**Countries applicable:** ZA

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**Company:** Salbu Research & Development (pty) Ltd.  
**Project:** UMTS  
**Title:** Method of Operating a Network ODMA (enhancement to WBCDMA, TDCDMA)  
**Country:** ZA  
**Patent number:** ZA 97/1017  
**Countries applicable:** ZA

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**Company:** Salbu Research & Development (pty) Ltd.  
**Project:** UMTS  
**Title:** Power Adaption in a Multi-Station Network ODMA (enhancement to WBCDMA, TDCDMA)  
**Country:** ZA  
**Patent number:** ZA 97/6885  
**Countries applicable:** ZA

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<b>Company:</b>	Samsung Electronics Corporation (SEC)
<b>Project:</b>	UMTS
<b>Country:</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:</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:</b>	DE
<b>Patent number:</b>	4 212 300
<b>Countries applicable:</b>	DE
<b>Company:</b>	Siemens
<b>Project:</b>	UMTS
<b>Title:</b>	Method and arrangement for transmitting information in a digital radio system
<b>Country:</b>	US
<b>Patent number:</b>	5 648 967
<b>Countries applicable:</b>	US
<b>Company:</b>	Siemens
<b>Project:</b>	UMTS
<b>Title:</b>	TD-CDMA
<b>Country:</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:</b>	Siemens
<b>Project:</b>	UMTS
<b>Title:</b>	TD-CDMA, W-CDMA
<b>Country:</b>	n/a
<b>Notes:</b>	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.
<b>Company:</b>	Telia AB
<b>Project:</b>	UMTS
<b>Country:</b>	n/a
<b>Patent number:</b>	2265259
<b>Countries applicable:</b>	GB
<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:</b>	Telia AB
<b>Project:</b>	UMTS
<b>Country:</b>	n/a
<b>Patent number:</b>	505 006
<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:** Telia AB  
**Project:** UMTS  
**Country:** n/a  
**Application number:** 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:** Telia AB  
**Project:** UMTS  
**Country:** n/a  
**Application number:** 9602399-9  
**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:** Telia AB  
**Project:** UMTS  
**Country:** n/a  
**Application number:** 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:** Telia AB  
**Project:** UMTS  
**Country:** n/a  
**Application number:** 9801621-5  
**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:** Telia AB  
**Project:** UMTS  
**Country:** n/a  
**Application number:** 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:** Telia AB  
**Project:** UMTS  
**Country:** n/a  
**Application number:** PCT/SE97/00203  
**Countries applicable:** EPC, 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:** Telia AB  
**Project:** UMTS  
**Country:** n/a  
**Application number:** 9602401-3  
**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:** Telia AB  
**Project:** UMTS  
**Country:** n/a  
**Application number:** 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:** Telia AB  
**Project:** UMTS  
**Country:** n/a  
**Application number:** PCT/SE98/01157  
**Countries applicable:** EP, 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:** Telia AB  
**Project:** UMTS  
**Country:** n/a  
**Application number:** PCT/SE98/02357  
**Countries applicable:** EP, 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:** Telia AB  
**Project:** UMTS  
**Country:** n/a  
**Application number:** 9801027-5  
**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:** Telia AB  
**Project:** UMTS  
**Country:** n/a  
**Application number:** 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:** Telia AB  
**Project:** UMTS  
**Country:** n/a  
**Application number:** 95930765.3  
**Countries applicable:** EPC  
**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:** Telia AB  
**Project:** UMTS  
**Country:** n/a  
**Application number:** 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:** Telia AB  
**Project:** UMTS  
**Country:** n/a  
**Patent number:** 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:** Telia AB  
**Project:** UMTS  
**Country:** n/a  
**Application number:** 97904710.7  
**Countries applicable:** EPC  
**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:** Telia AB  
**Project:** UMTS  
**Country:** n/a  
**Patent number:** 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:** Telia AB  
**Project:** UMTS  
**Country:** n/a  
**Patent number:** 507 640  
**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:** Telia AB  
**Project:** UMTS  
**Country:** n/a  
**Patent number:** 0561735  
**Countries applicable:** BE, CH, LI, DE, FR, NL  
**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:** Telia AB  
**Project:** UMTS  
**Country:** n/a  
**Application number:** 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:** Texas Instruments  
**Project:** UMTS  
**Country:** n/a  
**Notes:** 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.

## VDSL

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**Company:** Marconi Communications Ltd.  
**Project:** VDSL  
**Title:** High speed digital subscriber lines  
**Country:** Australia  
**Application number:** 81494 / 94  
**Patent number:** 688814  
**Countries applicable:** Australia  
**Standard(s):** 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:** Marconi Communications Ltd.  
**Project:** VDSL  
**Title:** High speed digital subscriber lines  
**Country:** Europe  
**Application number:** 94307769.3  
**Patent number:** 0653859  
**Countries applicable:** France; Spain; Italy; Sweden  
**Standard(s):** 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:** Marconi Communications Ltd.  
**Project:** VDSL  
**Title:** High speed digital subscriber lines  
**Country:** Europe  
**Application number:** 94307769.3  
**Patent number:** P.69416641.3  
**Countries applicable:** Germany  
**Standard(s):** 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:** Marconi Communications Ltd.  
**Project:** VDSL  
**Title:** High speed digital subscriber lines  
**Country:** GB  
**Application number:** 9421751.0  
**Patent number:** 2283879  
**Countries applicable:** GB  
**Standard(s):** 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:** Marconi Communications Ltd.  
**Project:** VDSL  
**Title:** High Speed digital subscriber lines  
**Country:** PCT  
**Application number:** GB94 / 02492 Pending  
**Standard(s):** 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:** Marconi Communications Ltd.  
**Project:** VDSL  
**Title:** High speed digital subscriber lines  
**Country:** US interim  
**Application number:** 08 / 334 838  
**Patent number:** 5668802  
**Countries applicable:** US  
**Standard(s):** 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