

EXHIBIT 20



ETSI SMG2 Source : SAMSUNG
14-18 December 1998 Agenda item : 4.1(UTRA IPR)
Espoo, Finland Title: IPR Licensing Declaration

This declaration is given on December 14, 1998 by Samsung Electronics Corporation("SEC")of Seoul Korea to the European Telecommunications Standards Institute (ETSI) of Sophia Antipolis France.

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.

Yours sincerely

A handwritten signature in black ink, appearing to read "Young Ky Kim", written over a horizontal line.

Young Ky Kim

Director

Information and Communications

PLAINTIFF'S EXHIBIT NO. 122

United States District Court
Northern District of California
No. 11-CV-01846-LHK (PSG)

Apple Inc. v. Samsung Elecs.

Date Admitted: _____ By: _____



EUROPEAN TELECOMMUNICATION STANDARDS INSTITUTE

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IPR INFORMATION STATEMENT AND LICENSING DECLARATION

IPR Holder/Organisation

Legal Name: **Samsung Electronics Corporation**

Signatory

Name: Kyong-Joon, Chun

Position: Executive Vice President

Department: **Telecommunication R&D Centre**

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Tel.: **82-31-279-5041**

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E-mail: **xhpark@samsung.com**

IPR information statement

In accordance with the ETSI IPR Policy, Article 4.1, I hereby inform ETSI that,

with reference to ETSI Standard No. **ETSI TS 100. xxx, ETSI TS 25.xxx, ETSI TS34. xxx** (see **the exact numbers of ETSI Standards No in ANNEX 2**)

it is my belief that the IPRs listed in Annex 2 are, or are likely to become, Essential IPRs in relation to that Standard.

IPR licensing declaration

The SIGNATORY has notified ETSI that it is the proprietor of the IPRs listed in Annex 2 and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above.

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

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

Place, Date:

Signature:

2003. 09. 18

Kyong J. Chun

(Signed for and on behalf of the SIGNAT

Please return this form duly signed to:
ETSI Director General - Karl Heinz Rosenbrock

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Project	Company	Patent title	Country of registration	ETSI Standard No. (e.g. TS XXX XXX V0.0.0)	Application No.	Patent No.	Countries applicable
GSM /3GPP	Samsung Electronics	VERFAHREN ZUR QUELLENGESTEUERTEN KANALDECODIERUNG DURCH ERWEITERUNG DES VITERBI- ALGORITHMUS	Germany	ETSI TS 100 573 V8.7.0	DE 4224214.2	DE 42 24 214	DE
GSM /3GPP	Samsung Electronics	PROCEDE DE DECODAGE DE CANAUX AVEC COMMANDE A LA SOURCE PAR ELARGISSEMENT DE L'ALGORITHME DE VITERBI ET UTILISATION DE CE PROCEDE	France	ETSI TS 100 573 V8.7.0	93 09049	FR 2694647	FR
GSM /3GPP	Samsung Electronics	METHOD FOR SOURCE- CONTROLLED CHANNEL DECODING BY EXPANDING THE VITERBI ALGORITHM	U.S.A	ETSI TS 100 573 V8.7.0	08/095708	US 5,511,081	US
GSM /3GPP	Samsung Electronics	VERFAHREN ZUM VERALLGEMEINERN DES VITERBI- ALGORITHMUS UND EINRICHTUNGEN ZUR DURCHFUEHRUNG DES VERFAHRENS	Germany	ETSI TS 100 573 V8.7.0 ETSI TS 100 908 V8.9.0 ETSI TS 100 910 V8.9.0	DE 3910739.6	DE 3910739	DE
GSM /3GPP	Samsung Electronics	METHOD FOR GENERALIZING THE VITERBI ALGORITHM AND DEVICES FOR EXECUTING THE METHOD	U.S.A.	ETSI TS 100 573 V8.7.0 ETSI TS 100 908 V8.9.0 ETSI TS 100 910 V8.9.0	07/504357	US 5181209	US
GSM, /3GPP	Samsung Electronics	METHOD FOR GENERALIZING THE VITERBI ALGORITHM AND DEVICES FOR EXECUTING THE METHOD	France	ETSI TS 100 573 V8.7.0 ETSI TS 100 908 V8.9.0 ETSI TS 100 910 8.9.0	90106375.0	FR EP 0 391 354	FR

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GSM /3GPP	Samsung Electronics	METHOD FOR GENERALIZING THE VITERBI ALGORITHM AND DEVICES FOR EXECUTING THE METHOD	England	ETSI TS 100 573 V8.7.0 ETSI TS 100 908 V8.9.0 ETSI TS 100 910 8.9.0	90106375.0	GB EP 0 391 354	GB
GSM /3GPP	Samsung Electronics	METHOD FOR GENERALIZING THE VITERBI ALGORITHM AND DEVICES FOR EXECUTING THE METHOD	Sweden	ETSI TS 100 573 V8.7.0 ETSI TS 100 908 V8.9.0 ETSI TS 100 910 8.9.0	90106375.0	SE EP 0 391 354	SE
GSM /3GPP	Samsung Electronics	METHOD AND APPARATUS FOR CORRECTING BITTER ALGORITHM	Japan	ETSI TS 100 573 V8.7.0 ETSI TS 100 908 V8.9.0 ETSI TS 100 910 8.9.0	02-089006	JP 2 533 219	JP
GSM /3GPP	Samsung Electronics	METHOD AND ITS DEVICE DEMODULATING GAUSSIAN FILTERED MINIMUM SHIFT KEYING	KR	ETSI TS 100 959 V8.4.0 GSM 05.04 V8.4.0	1990-0022760	KR 1995- 0003666	KR
GSM /3GPP	Samsung Electronics	METHOD AND APPARATUS FOR DEMODULATING A GMSK SIGNAL	US	ETSI TS 100 959 V8.4.0 GSM 05.04 V8.4.0	723278	US 5144256	US
GSM /3GPP	Samsung Electronics	GMSK SIGNAL DEMODULATION METHOD AND ITS DEVICE	JP	ETSI TS 100 959 V8.4.0 GSM 05.04 V8.4.0	1991000127959	JP 6021982	JP

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Project	Company	Patent Title	Country of Registration	ETSI Standard No.	Application No.	Patent No.	Countries applicable
3GPP	Samsung Electronics	DEVICE AND METHOD FOR PERFORMING HANDOFF IN MOBILE COMMUNICATION SYSTEM		TS 25.212	5420		MX
3GPP	Samsung Electronics	tstd transmitter for limiting transmission power of antenna and controlling method thereof for base station in mobile communication		TS 25.211	36375		IN
3GPP	Samsung Electronics	apparatus and method for generating sync word and transmitting and receiving the sync word in w-cdma communication system		TS 25.213	36675		AU
3GPP	Samsung Electronics	apparatus and method for controlling a demultiplexer and a multiplexer used for rate matching in a mobile communication system		TS 25.212	141743		IL
3GPP	Samsung Electronics	method and apparatus for assigning a common packet channel in a cdma communication system		TS 25.331 TS 25.430 TS 25.211	148656		IL
3GPP	Samsung Electronics	DEVICE AND METHOD FOR PERFORMING HANDOFF IN MOBILE COMMUNICATION SYSTEM		TS 25.212	206056	6154652	US
3GPP	Samsung Electronics	DEVICE AND METHOD FOR PROVIDING TIME SWITCHED TRANSMISSION DIVERSITY IN MOBILE COMMUNICATION SYSTEM		TS 25.211	253976		US
3GPP	Samsung Electronics	channel encoding device and method for communication system		TS 25.212	294658	6437714	US
3GPP	Samsung Electronics	tstd transmitter for limiting transmission power of antenna and controlling method thereof for base station in mobile communication		TS 25.211	365797	6529496	US
3GPP	Samsung Electronics	PN SEQUENCE IDENTIFYING DEVICE IN CDMA COMMUNICATION SYSTEM		TS 25.211	386062		US
3GPP	Samsung Electronics	an iterative decoder and an iterative decoding method for a communication system		TS 25.211	475684		US
3GPP	Samsung Electronics	2-dimensional interleaving apparatus and method		TS 25.211	543792		US
3GPP	Samsung Electronics	apparatus and method for controlling a demultiplexer and a multiplexer used for rate matching in a mobile communication system		TS 25.212	613068		US
3GPP	Samsung Electronics	apparatus and method for assigning a common packet channel in a cdma communication system		TS 25.331 TS 25.430 TS 25.211	726147		US
3GPP	Samsung Electronics	method and apparatus for controlling a demultiplexer and a multiplexer used for rate		TS 25.212	801453.1		CN

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		matching in a mobile communication system					
3GPP	Samsung Electronics	DEVICE AND METHOD FOR PROVIDING TIME SWITCHED TRANSMISSION DIVERSITY IN MOBILE COMMUNICATION SYSTEM		TS 25.211	2282431	2282431	CA
3GPP	Samsung Electronics	channel encoding/decoding APPARATUS AND METHOD FOR COMMUNICATION SYSTEM		TS 25.212	2292568		CA
3GPP	Samsung Electronics	PN SEQUENCE IDENTIFYING DEVICE IN CDMA COMMUNICATION SYSTEM		TS 25.211	2306509		CA
3GPP	Samsung Electronics	2-dimensional interleaving apparatus and method		TS 25.211	2368027		CA
3GPP	Samsung Electronics	apparatus and method for assigning a common packet channel in a cdma communication system		TS 25.331 TS 25.430 TS 25.211	2392886		CA
3GPP	Samsung Electronics	Method of transmitting/receiving information about orthogonal variable spreading factor codes assigned to user data in a high speed data packet access communication system		TS 25.213	2397428		CA
3GPP	Samsung Electronics	apparatus and method for controlling a demultiplexer and a multiplexer used for rate matching in a mobile communication system		TS 25.212	20023165	20023165.0	DE
3GPP	Samsung Electronics	APPARATUS AND METHOD FOR PROVIDING TIME SWITCHED TRANSMISSION DIVERSITY IN MOBILE COMMUNICATION SYSTEM		TS 25.211	29924415.6	29924415.6	DE
3GPP	Samsung Electronics	APPARATUS AND METHOD FOR PERFORMING HANDOFF IN MOBILE COMMUNICATION SYSTEM		TS 25.212	87120221	120384	TW
3GPP	Samsung Electronics	METHOD AND APPARATUS FOR PERFORMING HANDOFF IN MOBILE COMMUNICATION SYSTEM		TS 25.212	98811857.2		CN
3GPP	Samsung Electronics	DEVICE AND METHOD FOR PERFORMING HANDOFF IN MOBILE COMMUNICATION SYSTEM		TS 25.212	98959257.1		EP
3GPP	Samsung Electronics	METHOD AND DEVICE FOR PROVIDING TIME SWITCHED TRANSMISSION DIVERSITY IN MOBILE COMMUNICATION SYSTEM		TS 25.211	99120704	2173500	RU
3GPP	Samsung Electronics	METHOD AND APPARATUS FOR PROVIDING TIME SWITCHED TRANSMISSION DIVERSITY IN MOBILE COMMUNICATION SYSTEM		TS 25.211	99800097.3		CN
3GPP	Samsung Electronics	method and device for channel encoding/decoding FOR COMMUNICATION SYSTEM		TS 25.212	99800575.4		CN
3GPP	Samsung Electronics	tstd transmitter for limiting transmission power of antenna and controlling method thereof for base station in mobile communication		TS 25.211	99801239.4	ZL99801239.4	CN
3GPP	Samsung Electronics	an iterative decoder and an iterative decoding method for a communication system		TS 25.211	99815196.3		CN
3GPP	Samsung Electronics	DEVICE AND METHOD FOR PROVIDING TIME SWITCHED TRANSMISSION DIVERSITY IN MOBILE COMMUNICATION SYSTEM		TS 25.211	99905352.3		EP

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3GPP	Samsung Electronics	an iterative decoder and an iterative decoding method for a communication system		TS 25.211	99962545.2		EP
3GPP	Samsung Electronics	tstd transmitter for limiting transmission power of antenna and controlling method thereof for base station in mobile communication		TS 25.211	2000108452	2174286	RU
3GPP	Samsung Electronics	PN SEQUENCE IDENTIFYING DEVICE IN CDMA COMMUNICATION SYSTEM		TS 25.211	2000111515	2193277	RU
3GPP	Samsung Electronics	DEVICE AND METHOD FOR PERFORMING HANDOFF IN MOBILE COMMUNICATION SYSTEM		TS 25.212	2000114179	2198477	RU
3GPP	Samsung Electronics	apparatus and method for controlling a demultiplexer and a multiplexer used for rate matching in a mobile communication system		TS 25.212	2001106655	2201651	RU
3GPP	Samsung Electronics	an iterative decoder and an iterative decoding method for a communication system		TS 25.211	2001117856		RU
3GPP	Samsung Electronics	apparatus and method for assigning a common packet channel in a cdma communication system		TS 25.331 TS 25.430 TS 25.211	2002110279		RU
3GPP	Samsung Electronics	method and device for assigning a common packet channel in a cdma communication system		TS 25.331 TS 25.430 TS 25.211	2002113927		RU
3GPP	Samsung Electronics	Method of transmitting/receiving information about orthogonal variable spreading factor codes assigned to user data in a high speed data packet access communication system		TS 25.213	2002300503		AU
3GPP	Samsung Electronics	device and method for implementing handoff in mobile communication system with short sync channel		TS 25.214	0006167-0		BR
3GPP	Samsung Electronics	device and method for channel coding and multiplexing in cdma communication system		TS 25.212	0006859-4		BR
3GPP	Samsung Electronics	rate matching device and method for a data communication system		TS 25.212	0006890-0		BR
3GPP	Samsung Electronics	apparatus and method for generating scrambling code in unts mobile communication system		TS 25.213	0006898-5		BR
3GPP	Samsung Electronics	device and method for controlling a demultiplexer and a multiplexer used for rate matching in a mobile communication system		TS 25.212	0006919-1		BR
3GPP	Samsung Electronics	2-dimensional interleaving apparatus and method		TS 25.211	0009376.9		BR
3GPP	Samsung Electronics	device and method for gated transmission in cdma communication system		TS 25.214	0011054-0		BR
3GPP	Samsung Electronics	apparatus and method for assigning a common packet channel in a cdma communication system		TS 25.331 TS 25.430 TS 25.211	0016008-3		BR
3GPP	Samsung Electronics	device and method for generating sync word and transmitting and receiving the sync word in w-cdma communication system		TS 25.213	006151-4		BR

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3GPP	Samsung Electronics	method and device for implementing handoff in mobile communication system with short sync channel	TS 25.214	00800886.8	CN
3GPP	Samsung Electronics	method and apparatus for channel coding and multiplexing in cdma communication system	TS 25.212	00801160.5	CN
3GPP	Samsung Electronics	device and method for generating sync word and transmitting and receiving the sync word in w-cdma communication system	TS 25.213	00801168.0	CN
3GPP	Samsung Electronics	turbo interleaving apparatus and method	TS 25.212	00801429.9	CN
3GPP	Samsung Electronics	2-dimensional interleaving apparatus and method	TS 25.211	00805575.0	CN
3GPP	Samsung Electronics	method and device for gated transmission in a cdma communication system	TS 25.214	00806189.0	CN
3GPP	Samsung Electronics	cell search apparatus and method in cdma mobile communication system	TS 25.214	00806632.9	CN
3GPP	Samsung Electronics	device and method for assigning a common packet channel in a cdma communication system	TS 25.331 TS 25.430 TS 25.211	00818399.6	CN
3GPP	Samsung Electronics	method and apparatus for gated transmission in cdma communication system	TS 25.214	00818719.3	CN
3GPP	Samsung Electronics	apparatus and method for gated transmission in a cdma communication system	TS 25.214	00921136.8	EP
3GPP	Samsung Electronics	cell search apparatus and method in cdma mobile communication system	TS 25.214	00921160.8	EP
3GPP	Samsung Electronics	apparatus and method for synchronizing channels in a w-cdma communication system	TS 25.214	00925712.2	EP
3GPP	Samsung Electronics	turbo interleaving apparatus and method	TS 25.212	00927908.4	EP
3GPP	Samsung Electronics	apparatus and method for generating sync word and transmitting and receiving the sync word in w-cdma communication system	TS 25.213	00935677.5	EP
3GPP	Samsung Electronics	apparatus and method for implementing handoff in mobile communication system with short sync channel	TS 25.214	00935686.6	EP
3GPP	Samsung Electronics	apparatus and method for channel coding and multiplexing in cdma communication system	TS 25.212	00940975.6	EP
3GPP	Samsung Electronics	apparatus and method for generating scrambling code in umts mobile communication system	TS 25.213	00942496.1	EP
3GPP	Samsung Electronics	apparatus and method for controlling a demultiplexer and a multiplexer used for rate matching in a mobile communication system	TS 25.212	00942500.0	EP
3GPP	Samsung Electronics	rate matching device and method for a data communication system	TS 25.212	00944447.2	EP

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3GPP	Samsung Electronics	device and method for gated transmission in a cdma communication system		TS 25.214	009713-6		BR
3GPP	Samsung Electronics	apparatus and method for assigning a common packet channel in a cdma communication system		TS 25.331 TS 25.430 TS 25.211	00981895.6		EP
3GPP	Samsung Electronics	apparatus and method for assigning a common packet channel in a cdma communication system		TS 25.302 TS 25.303 TS 25.321 TS 25.331 TS 25.214	01800233.1		CN
3GPP	Samsung Electronics	Method For Measuring Confusion Rate Of a Common Packet Channel In a CDMA Communication System		TS 25.433 TS 25.302	01800858.5		CN
3GPP	Samsung Electronics	device and method for assigning a common packet channel in a cdma communication system		TS 25.331 TS 25.922 TS 25.433	01807152.X		CN
3GPP	Samsung Electronics	apparatus and method for assigning a common packet channel in a cdma communication system		TS 25.302 TS 25.303 TS 25.321 TS 25.331 TS 25.214	01908412.8		EP
3GPP	Samsung Electronics	Method For Measuring Confusion Rate Of a Common Packet Channel In a CDMA Communication System		TS 25.433 TS 25.302	01922112.6		EP
3GPP	Samsung Electronics	Method of transmitting/receiving information about orthogonal variable spreading factor codes assigned to user data in a high speed data packet access communication system		TS 25.213	0202405-7		SE
3GPP	Samsung Electronics	Method of transmitting/receiving information about orthogonal variable spreading factor codes assigned to user data in a high speed data packet access communication system		TS 25.213	0210215		FR
3GPP	Samsung Electronics	APPARATUS AND METHOD FOR ADAPTIVE CHANNEL ENCODING		TS 25.212	02147194.4		CN
3GPP	Samsung Electronics	Method of transmitting/receiving information about orthogonal variable spreading factor codes assigned to user data in a high speed data packet access communication system		TS 25.213	02151853.X		CN
3GPP	Samsung Electronics	Method of transmitting/receiving information about orthogonal variable spreading factor codes assigned to user data in a high speed data packet access communication system		TS 25.213	0218506.4		GB
3GPP	Samsung Electronics	apparatus and method for assigning a common packet channel in a cdma communication system		TS 25.302 TS 25.303 TS 25.321 TS 25.331 TS 25.214	03003595.0		EP

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3GPP	Samsung Electronics	apparatus and method for assigning a common packet channel in a cdma communication system	TS 25.302 TS 25.303 TS 25.321 TS 25.331 TS 25.214	03003596.8		EP
3GPP	Samsung Electronics	turbo encoding/decoding device and method for processing frame data according to qos	TS 25.212	03007405.8		EP
3GPP	Samsung Electronics	turbo encoding/decoding device and method for processing frame data according to qos	TS 25.212	03107664.5		CN
3GPP	Samsung Electronics	Method of transmitting/receiving information about orthogonal variable spreading factor codes assigned to user data in a high speed data packet access communication system	TS 25.213	10236913.5		DE
3GPP	Samsung Electronics	ADAPTIVE CHANNEL ENCODING METHOD AND DEVICE	TS 25.212	126250	6289486	US
3GPP	Samsung Electronics	device and method for cancelling code interference in cdma communication system	TS 25.213	134887		IL
3GPP	Samsung Electronics	APPARATUS AND METHOD FOR INSERTING PREVIOUSLY KNOWN BITS IN INPUT STAGE OF CHANNEL ENCODER	TS 25.212	135,676		IL
3GPP	Samsung Electronics	apparatus and method for turbo interleaving	TS 25.212	140661		IL
3GPP	Samsung Electronics	method and device for channel coding and multiplexing in cdma communication system	TS 25.212	141461		IL
3GPP	Samsung Electronics	method and apparatus for generating scrambling code in unts mobile communication system	TS 25.213	141787		IL
3GPP	Samsung Electronics	rate matching device and method for a data communication system	TS 25.212	141800		IL
3GPP	Samsung Electronics	method and apparatus for gated transmission in a cdma communication system	TS 25.214	145548		IL
3GPP	Samsung Electronics	DEVICE AND METHOD FOR PERFORMING HANDOFF IN MOBILE COMMUNICATION SYSTEM	TS 25.212	15095/99	739527	AU
3GPP	Samsung Electronics	METHOD FOR CONNECTING MOBILE STATIONS TO BASE STATION IN RADIO COMMUNICATION SYSTEM	TS 25.214	152,562	6,188,910	US
3GPP	Samsung Electronics	interleaving/deintereaving device and method for communication system	TS 25.212	16956/00	738762	AU
3GPP	Samsung Electronics	rate matching device and method for a data communication system	TS 25.212	1865/2001	2001/1865	ZA
3GPP	Samsung Electronics	interleaving/deintreaving device and method for communication system	TS 25.211	18946/2000		AU
3GPP	Samsung Electronics	an iterative decoder and an iterative decoding method for a communication system	TS 25.211	18958/00		AU

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3GPP	Samsung Electronics	apparatus and method for assigning a common packet channel in a cdma communication system	TS 25.331 TS 25.430 TS 25.211	19000/01		AU
3GPP	Samsung Electronics	channel encoding device and method for communication system	TS 25.212	2,291,696		CA
3GPP	Samsung Electronics	DEVICE AND METHOD FOR INSERTING PREVIOUSLY KNOWN BITS IN INPUT STAGE OF CHANNEL ENCODER	TS 25.212	2,306,367		CA
3GPP	Samsung Electronics	turbo interleaving apparatus and method	TS 25.212	2,337,918		CA
3GPP	Samsung Electronics	apparatus and method for assigning a common packet channel in a cdma communication system	TS 25.302 TS 25.303 TS 25.321 TS 25.331 TS 25.214	2,370,670		CA
3GPP	Samsung Electronics	interleaving/deinterleaving device and method for communication system	TS 25.212	2000/00230		IN
3GPP	Samsung Electronics	apparatus and method of puncturing for turbo encoder in mobile communication system	TS 25.211	2000/00282		IN
3GPP	Samsung Electronics	apparatus and method of channel coding for rate matching	TS 25.212	2000102349		RU
3GPP	Samsung Electronics	apparatus and method for cancelling code interference in cdma communication system	TS 25.213	2000105882		RU
3GPP	Samsung Electronics	METHOD FOR CHANNEL ENCODING/DECODING IN COMMUNICATION SYSTEM	TS 25.212	2000108450	2190929	RU
3GPP	Samsung Electronics	METHOD AND APPARATUS FOR INSERTING PREVIOUSLY KNOWN BITS IN INPUT STAGE OF CHANNEL ENCODER	TS 25.212	2000109978	2190296	RU
3GPP	Samsung Electronics	AFC DEVICE AND METHOD OF CONTROLLING RECEPTION FREQUENCY IN A DUAL-MODE TERMINAL	TS 34.108	2000111554		RU
3GPP	Samsung Electronics	interleaving/deinterleaving device and method for communication system	TS 25.212	2000121962		RU
3GPP	Samsung Electronics	method and device of puncturing for turbo encoder in mobile communication system	TS 25.211	2000122734	2185025	RU
3GPP	Samsung Electronics	turbo interleaving apparatus and method	TS 25.212	2001/00083		IN
3GPP	Samsung Electronics	method and apparatus for generating sync word and transmitting and receiving the sync word in w-cdma communication system	TS 25.213	2001/00104		IN
3GPP	Samsung Electronics	apparatus and method for implementing handoff in mobile communication system with short sync channel	TS 25.214	2001/00122		IN
3GPP	Samsung Electronics	device and method for channel coding and multiplexing in cdma communication	TS 25.212	2001/00221		IN

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		system				
3GPP	Samsung Electronics	rate matching device and method for a data communication system	TS 25.212	2001/00258		IN
3GPP	Samsung Electronics	method and device for generating scrambling code in umts mobile communication system	TS 25.213	2001/00264		IN
3GPP	Samsung Electronics	method and apparatus for controlling a demultiplexer and a multiplexer used for rate matching in a mobile communication system	TS 25.212	2001/00268		IN
3GPP	Samsung Electronics	an iterative decoder and an iterative decoding method for a communication system	TS 25.211	2001/00503/ DEL		IN
3GPP	Samsung Electronics	2-dimensional interleaving apparatus and method	TS 25.211	2001/00849/ Del		IN
3GPP	Samsung Electronics	device and method for gated transmission in a cdma communication system	TS 25.214	2001/00851/ Del		IN
3GPP	Samsung Electronics	method and device for gated transmission in cdma communication system	TS 25.214	2001/01014		IN
3GPP	Samsung Electronics	apparatus and method for channel coding and multiplexing in cdma communication system	TS 25.212	2001/1530	2001/1530	ZA
3GPP	Samsung Electronics	apparatus and method for generating scrambling code in umts mobile communication system	TS 25.213	2001/1908	2001/1908	ZA
3GPP	Samsung Electronics	apparatus and method for controlling a demultiplexer and a multiplexer used for rate matching in a mobile communication system	TS 25.212	2001/1935	2001/1935	ZA
3GPP	Samsung Electronics	device and apparatus for turbo interleaving	TS 25.212	2001101916		RU
3GPP	Samsung Electronics	method and device for channel coding and multiplexing in cdma communication system	TS 25.212	2001105192		RU
3GPP	Samsung Electronics	rate matching device and method for a data communication system	TS 25.212	2001106625		RU
3GPP	Samsung Electronics	apparatus and method for generating scrambling code in umts mobile communication system	TS 25.213	2001106659	2185031	RU
3GPP	Samsung Electronics	apparatus and method for gated transmission in a cdma communication system	TS 25.214	2001127670		RU
3GPP	Samsung Electronics	method and device for assigning a common packet channel in a cdma communication system	TS 25.331 TS 25.430 TS 25.211	2002/00501		IN
3GPP	Samsung Electronics	apparatus and method for assigning a common packet channel in a cdma communication system	TS 25.331 TS 25.430 TS 25.211	2002/5150		ZA

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3GPP	Samsung Electronics	Method of transmitting/receiving information about orthogonal variable spreading factor codes assigned to user data in a high speed data packet access communication system	TS 25.213	20021460		FI
3GPP	Samsung Electronics	apparatus and method for generating scrambling code in umts mobile communication system	TS 25.213	20023092.1	20023092.1	DE
3GPP	Samsung Electronics	turbo interleaving apparatus and method	TS 25.212	20023169.3	20023169.3	DE
3GPP	Samsung Electronics	rate matching device and method for a data communication system	TS 25.212	20023175.8		DE
3GPP	Samsung Electronics	apparatus and method for channel coding and multiplexing in cdma communication system	TS 25.212	20023176.6	20023176.6	DE
3GPP	Samsung Electronics	channel encoding/decoding APPARATUS AND METHOD FOR COMMUNICATION SYSTEM	TS 25.212	209114		US
3GPP	Samsung Electronics	METHOD AND DEVICE FOR PERFORMING HANDOFF IN MOBILE COMMUNICATION SYSTEM	TS 25.212	2134/Cal/98		IN
3GPP	Samsung Electronics	Method of transmitting/receiving information about orthogonal variable spreading factor codes assigned to user data in a high speed data packet access communication system	TS 25.213	218,158		US
3GPP	Samsung Electronics	turbo encoding/decoding device and method for processing frame data according to qos	TS 25.212	2291109		CA
3GPP	Samsung Electronics	ADAPTIVE CHANNEL ENCODING METHOD AND DEVICE	TS 25.212	2295791		CA
3GPP	Samsung Electronics	device and method for cancelling code interference in cdma communication system	TS 25.213	2302340		CA
3GPP	Samsung Electronics	AFC DEVICE AND METHOD OF CONTROLLING RECEPTION FREQUENCY IN A DUAL-MODE TERMINAL	TS 34.108	2308621	2308621	CA
3GPP	Samsung Electronics	apparatus and method for synchronizing channels in a w-cdma communication system	TS 25.214	2334898		CA
3GPP	Samsung Electronics	apparatus and method for implementing handoff in mobile communication system with short sync channel	TS 25.214	2337917		CA
3GPP	Samsung Electronics	Method of transmitting/receiving information about orthogonal variable spreading factor codes assigned to user data in a high speed data packet access communication system	TS 25.213	235010/2002		JP
3GPP	Samsung Electronics	cell searchapparatus and method in cdma mobile communication system	TS 25.214	2371205		CA
3GPP	Samsung Electronics	apparatus and method for gated transmission in a cdma communication system	TS 25.214	2371958		CA
3GPP	Samsung Electronics	Method For Measuring Confusion Rate Of a Common Packet Channel In a CDMA Communication System	TS 25.433 TS 25.302	2372557		CA
3GPP	Samsung Electronics	DEVICE AND METHOD FOR PROVIDING TIME SWITCHED TRANSMISSION DIVERSITY IN MOBILE COMMUNICATION SYSTEM	TS 25.211	25510/99	730798	AU

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3GPP	Samsung Electronics	METHOD FOR CONNECTING MOBILE STATIONS TO BASE STATION IN A RADIO COMMUNICATION SYSTEM	TS 25.214	260172/1998		JP
3GPP	Samsung Electronics	turbo encoding/decoding device and method for processing frame data according to qos	TS 25.212	282851		US
3GPP	Samsung Electronics	apparatus and method for turbo encoding/decoding for processing frame data according to qos	TS 25.212	292/CAL/99		IN
3GPP	Samsung Electronics	channel encoding/decoding APPARATUS AND METHOD FOR COMMUNICATION SYSTEM	TS 25.212	294659		US
3GPP	Samsung Electronics	turbo encoding/decoding device and method for processing frame data according to qos	TS 25.212	29924421	29924421.0	DE
3GPP	Samsung Electronics	apparatus and method for generating scrambling code in umts mobile communication system	TS 25.213	3008940.3		EP
3GPP	Samsung Electronics	turbo encoding/decoding device and method for processing frame data according to qos	TS 25.212	30568/99	722598	AU
3GPP	Samsung Electronics	channel coding device and method for rate matching	TS 25.212	326891	6397367	US
3GPP	Samsung Electronics	channel encoding/decoding APPARATUS AND METHOD FOR COMMUNICATION SYSTEM	TS 25.212	33459/99	733641	AU
3GPP	Samsung Electronics	channel encoding device and method for communication system	TS 25.212	33460/99	735889	AU
3GPP	Samsung Electronics	DEVICE AND METHOD FOR PERFORMING HANDOFF IN MOBILE COMMUNICATION SYSTEM	TS 25.212	345277/1998	3043729	JP
3GPP	Samsung Electronics	device and method for cancelling code interference in cdma communication system	TS 25.213	348701	6459693	US
3GPP	Samsung Electronics	device and method for channel encoding/decoding FOR COMMUNICATION SYSTEM	TS 25.212	356/Cal/99		IN
3GPP	Samsung Electronics	method and device for channel encoding for communication system	TS 25.212	357/Cal/99		IN
3GPP	Samsung Electronics	apparatus and method for assigning a common packet channel in a cdma communication system	TS 25.331 TS 25.922 TS 25.433	36147/01		AU
3GPP	Samsung Electronics	apparatus and method for assigning a common packet channel in a cdma communication system	TS 25.302 TS 25.303 TS 25.321 TS 25.331 TS 25.214	36155/01		AU
3GPP	Samsung Electronics	2-dimensional interleaving apparatus and method	TS 25.211	36827/00		AU

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3GPP	Samsung Electronics	CHANNEL ENCODING/DECODING IN COMMUNICATION SYSTEM		TS 25.212	369,626	6,487,693	US
3GPP	Samsung Electronics	DEVICE AND METHOD FOR INSERTING PREVIOUSLY KNOWN BITS IN INPUT STAGE OF CHANNEL ENCODER		TS 25.212	378,371	6,374,386	US
3GPP	Samsung Electronics	AFC DEVICE AND METHOD OF CONTROLLING RECEPTION FREQUENCY IN A DUAL-MODE TERMINAL		TS 34.108	389287	6356599	US
3GPP	Samsung Electronics	apparatus and method for gated transmission in a cdma communication system		TS 25.214	41484/00		AU
3GPP	Samsung Electronics	cell search apparatus and method in cdma mobile communication system		TS 25.214	41505/00		AU
3GPP	Samsung Electronics	apparatus and method for synchronizing channels in a w-cdma communication system		TS 25.214	44360/00		AU
3GPP	Samsung Electronics	turbo interleaving apparatus and method		TS 25.212	46213/00	752231	AU
3GPP	Samsung Electronics	method and device for cancelling code interference in cdma communication system		TS 25.213	46562/99	729216	AU
3GPP	Samsung Electronics	interleaving/deintereaving device and method for communication system		TS 25.212	468568		US
3GPP	Samsung Electronics	interleaving/deintrleaving device and method for communication system		TS 25.211	472453	6493815	US
3GPP	Samsung Electronics	puncturing device and method for turbo encoder in mobile communication system		TS 25.211	475,559		US
3GPP	Samsung Electronics	Method For Measuring Confusion Rate Of a Common Packet Channel In a CDMA Communication System		TS 25.433 TS 25.302	48892/01		AU
3GPP	Samsung Electronics	method and apparatus for implementing handoff in mobile communication system with short sync channel		TS 25.214	500465/2001		JP
3GPP	Samsung Electronics	method and device for generating sync word and transmitting and receiving the sync word in w-cdma communication system		TS 25.213	500475/2001		JP
3GPP	Samsung Electronics	apparatus and method for channel coding and multiplexing in cdma communication system		TS 25.212	506182/2001		JP
3GPP	Samsung Electronics	rate matching device and method for a data communication system		TS 25.212	508111/2001		JP
3GPP	Samsung Electronics	method and device for controlling a demultiplexer and a multiplexer used for rate matching in a mobile communication system		TS 25.212	509176/2001		JP
3GPP	Samsung Electronics	method and apparatus for generating scrambling code in umts mobile communication system		TS 25.213	509194/2001		JP
3GPP	Samsung Electronics	apparatus and method for gated transmission in cdma communication system		TS 25.214	51109/00		AU
3GPP	Samsung Electronics	apparatus and method for implementing handoff in mobile communication system with short sync channel		TS 25.214	51114/00		AU

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3GPP	Samsung Electronics	method and device of channel coding for rate matching		TS 25.212	527/Cal/99		IN
3GPP	Samsung Electronics	DEVICE AND METHOD FOR INSERTING PREVIOUSLY KNOWN BITS IN INPUT STAGE OF CHANNEL ENCODER		TS 25.212	53086/99	731794	AU
3GPP	Samsung Electronics	device and method for assigning a common packet channel in a cdma communication system		TS 25.331 TS 25.430 TS 25.211	540940/2001		JP
3GPP	Samsung Electronics	APPARATUS AND METHOD FOR PROVIDING TIME SWITCHED TRANSMISSION DIVERSITY IN MOBILE COMMUNICATION SYSTEM		TS 25.211	542395/1999		JP
3GPP	Samsung Electronics	apparatus and method for gated transmission in a cdma communication system		TS 25.214	547886		US
3GPP	Samsung Electronics	turbo encoding/decoding device and method for processing frame data according to qos		TS 25.212	549213/1999	3343574	JP
3GPP	Samsung Electronics	apparatus and method for channel encoding/decoding FOR COMMUNICATION SYSTEM		TS 25.212	552818/1999		JP
3GPP	Samsung Electronics	apparatus and method for channel encoding for communication system		TS 25.212	552819/1999		JP
3GPP	Samsung Electronics	PN SEQUENCE IDENTIFYING DEVICE IN CDMA COMMUNICATION SYSTEM		TS 25.211	55314/99	746080	AU
3GPP	Samsung Electronics	AFC DEVICE AND METHOD OF CONTROLLING RECEPTION FREQUENCY IN A DUAL-MODE TERMINAL		TS 34.108	55322/99	731874	AU
3GPP	Samsung Electronics	channel coding device and method for rate matching		TS 25.212	554056/2000	3415120	JP
3GPP	Samsung Electronics	apparatus and method for channel coding and multiplexing in cdma communication system		TS 25.212	55754/00		AU
3GPP	Samsung Electronics	cell searchapparatus and method in cdma mobile communication system		TS 25.214	558237		US
3GPP	Samsung Electronics	method and apparatus for assigning a common packet channel in a cdma communication system		TS 25.331 TS 25.922 TS 25.433	560555/2001		JP
3GPP	Samsung Electronics	apparatus and method for assigning a common packet channel in a cdma communication system		TS 25.302 TS 25.303 TS 25.321 TS 25.331 TS 25.214	560556/2001		JP
3GPP	Samsung Electronics	apparatus and method for synchronizing channels in a w-cdma communication system		TS 25.214	562381		US
3GPP	Samsung Electronics	CHANNEL ENCODING/DECODING IN COMMUNICATION SYSTEM		TS 25.212	564304/2000		JP

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3GPP	Samsung Electronics	apparatus and method for generating scrambling code in umts mobile communication system	TS 25.213	57108/00		AU
3GPP	Samsung Electronics	apparatus and method for controlling a demultiplexer and a multiplexer used for rate matching in a mobile communication system	TS 25.212	57112/00	751376	AU
3GPP	Samsung Electronics	turbo interleaving apparatus and method	TS 25.212	575,084		US
3GPP	Samsung Electronics	Method For Measuring Confusion Rate Of a Common Packet Channel In a CDMA Communication System	TS 25.433 TS 25.302	575013/2001		JP
3GPP	Samsung Electronics	apparatus and method for gated transmission in cdma communication system	TS 25.214	584046		US
3GPP	Samsung Electronics	apparatus and method for generating sync word and transmitting and receiving the sync word in w-cdma communication system	TS 25.213	584051		US
3GPP	Samsung Electronics	apparatus and method for implementing handoff in mobile communication system with short sync channel	TS 25.214	584278		US
3GPP	Samsung Electronics	rate matching device and method for a data communication system	TS 25.212	58544/00		AU
3GPP	Samsung Electronics	interleaving/deinterleaving device and method for communication system	TS 25.212	590308/2000		JP
3GPP	Samsung Electronics	interleaving/deinterleaving device and method for communication system	TS 25.211	591739/2000		JP
3GPP	Samsung Electronics	an iterative decoder and an iterative decoding method for a communication system	TS 25.211	592947/2000		JP
3GPP	Samsung Electronics	method and apparatus of puncturing for turbo encoder in mobile communication system	TS 25.211	592976/2000	3359911	JP
3GPP	Samsung Electronics	apparatus and method for channel coding and multiplexing in cdma communication system	TS 25.212	603,062		US
3GPP	Samsung Electronics	method and device for cancelling code interference in cdma communication system	TS 25.213	604/Cal/99		IN
3GPP	Samsung Electronics	2-dimensional interleaving apparatus and method	TS 25.211	610135/2000		JP
3GPP	Samsung Electronics	rate matching device and method for a data communication system	TS 25.212	611014		US
3GPP	Samsung Electronics	method and device for gated transmission in a cdma communication system	TS 25.214	611414/2000		JP
3GPP	Samsung Electronics	apparatus and method for generating scrambling code in umts mobile communication system	TS 25.213	611518		US
3GPP	Samsung Electronics	cell search apparatus and method in cdma mobile communication system	TS 25.214	614570/2000		JP
3GPP	Samsung Electronics	method and device for synchronizing channels in a w-cdma communication system	TS 25.214	616143/2000		JP

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3GPP	Samsung Electronics	method and device for turbo interleaving		TS 25.212	619112/2000	3359912	JP
3GPP	Samsung Electronics	CHANNEL ENCODING/DECODING IN COMMUNICATION SYSTEM		TS 25.212	693/Cal/99		IN
3GPP	Samsung Electronics	METHOD AND APPARATUS FOR INSERTING PREVIOUSLY KNOWN BITS IN INPUT STAGE OF CHANNEL ENCODER		TS 25.212	720/Cal/99		IN
3GPP	Samsung Electronics	apparatus and method for assigning a common packet channel in a cdma communication system		TS 25.331 TS 25.922 TS 25.433	784914		US
3GPP	Samsung Electronics	apparatus and method for assigning a common packet channel in a cdma communication system		TS 25.302 TS 25.303 TS 25.321 TS 25.331 TS 25.214	788,980		US
3GPP	Samsung Electronics	device and method for synchronizing channels in a w-cdma communication system		TS 25.214	800713.6		CN
3GPP	Samsung Electronics	rate matching device and method for a data communication system		TS 25.212	801336.5		CN
3GPP	Samsung Electronics	device and method for generating scrambling code in umts mobile communication system		TS 25.213	801819.7		CN
3GPP	Samsung Electronics	Method For Measuring Confusion Rate Of a Common Packet Channel In a CDMA Communication System		TS 25.433 TS 25.302	832237		US
3GPP	Samsung Electronics	METHOD FOR CONNECTING MOBILE STATIONS TO BASE STATION IN RADIO COMMUNICATION SYSTEM		TS 25.214	98120390.6		CN
3GPP	Samsung Electronics	APPARATUS AND METHOD FOR PERFORMING HANDOFF IN MOBILE COMMUNICATION SYSTEM		TS 25.212	9815424-9		BR
3GPP	Samsung Electronics	METHOD FOR CONNECTING MOBILE STATIONS TO BASE STATION IN RADIO COMMUNICATION SYSTEM		TS 25.214	9819891.4	2329556	GB
3GPP	Samsung Electronics	METHOD AND DEVICE FOR ADAPTIVE CHANNEL ENCODING		TS 25.212	98807352.8		CN
3GPP	Samsung Electronics	device and method for turbo encoding/decoding for processing frame data according to qos		TS 25.212	99 912 135.3		BR
3GPP	Samsung Electronics	channel encoding device and method for communication system		TS 25.212	99 914 797.8		EP
3GPP	Samsung Electronics	tstd transmitter for limiting transmission power of antenna and controlling method thereof for base station in mobile communication		TS 25.211	99 935 155.4		EP
3GPP	Samsung Electronics	PN SEQUENCE IDENTIFYING DEVICE IN CDMA COMMUNICATION SYSTEM		TS 25.211	99 941 830.4		EP

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3GPP	Samsung Electronics	apparatus and method for cancelling code interference in cdma communication system		TS 25.213	990103290		AR
3GPP	Samsung Electronics	interleaving/deinterleaving device and method for communication system		TS 25.212	9907844-9		BR
3GPP	Samsung Electronics	device and method of puncturing for turbo encoder in mobile communication system		TS 25.211	9908388-4		BR
3GPP	Samsung Electronics	method and device for turbo encoding/decoding for processing frame data according to qos		TS 25.212	99125204		RU
3GPP	Samsung Electronics	method and apparatus for channel encoding for communication system		TS 25.212	99126707	2184419	RU
3GPP	Samsung Electronics	method and apparatus for channel encoding/decoding FOR COMMUNICATION SYSTEM		TS 25.212	99127341		RU
3GPP	Samsung Electronics	an iterative decoder and an iterative decoding method for a communication system		TS 25.211	9916593-7		BR
3GPP	Samsung Electronics	apparatus and method for turbo encoding/decoding for processing frame data according to qos		TS 25.212	99800417		CN
3GPP	Samsung Electronics	device and method for channel encoding for communication system		TS 25.212	99800556.8		CN
3GPP	Samsung Electronics	method and apparatus of channel coding for rate matching		TS 25.212	99800817.6		CN
3GPP	Samsung Electronics	method and apparatus for cancelling code interference in cdma communication system		TS 25.213	99801088.X		CN
3GPP	Samsung Electronics	METHOD FOR CHANNEL ENCODING/DECODING IN COMMUNICATION SYSTEM		TS 25.212	99801298.X		CN
3GPP	Samsung Electronics	APPARATUS AND METHOD FOR INSERTING PREVIOUSLY KNOWN BITS IN INPUT STAGE OF CHANNEL ENCODER		TS 25.212	99801406.0		CN
3GPP	Samsung Electronics	PN SEQUENCE IDENTIFYING DEVICE IN CDMA COMMUNICATION SYSTEM		TS 25.211	99801499.0		CN
3GPP	Samsung Electronics	AFC APPARATUS AND METHOD OF CONTROLLING RECEPTION FREQUENCY IN A DUAL-MODE TERMINAL		TS 34.108	99801510.5		CN
3GPP	Samsung Electronics	interleaving/deinterleaving device and method for communication system		TS 25.212	99803175.5		CN
3GPP	Samsung Electronics	puncturing device and method for turbo encoder in mobile communication system		TS 25.211	99803456.8		CN
3GPP	Samsung Electronics	interleaving/deinterleaving device and method for communication system		TS 25.211	99815036.3		CN
3GPP	Samsung Electronics	turbo encoding/decoding device and method for processing frame data according to qos		TS 25.212	99912135.3		EP
3GPP	Samsung Electronics	channel encoding/decoding APPARATUS AND METHOD FOR COMMUNICATION SYSTEM		TS 25.212	99914796.0		EP

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3GPP	Samsung Electronics	channel coding device and method for rate matching		TS 25.212	99925431.1		EP
3GPP	Samsung Electronics	device and method for cancelling code interference in cdma communication system		TS 25.213	99929929.0		EP
3GPP	Samsung Electronics	CHANNEL ENCODING/DECODING IN COMMUNICATION SYSTEM		TS 25.212	99935167.9		EP
3GPP	Samsung Electronics	AFC DEVICE AND METHOD OF CONTROLLING RECEPTION FREQUENCY IN A DUAL-MODE TERMINAL		TS 34.108	99941839.5		EP
3GPP	Samsung Electronics	interleaving/deinterleaving device and method for communication system		TS 25.211	99962527.0		EP
3GPP	Samsung Electronics	puncturing device and method for turbo encoder in mobile communication system		TS 25.211	99962552.8		EP
3GPP	Samsung Electronics	Method of transmitting/receiving information about orthogonal variable spreading factor codes assigned to user data in a high speed data packet access communication system		TS 25.213	MI 2002A001821		IT
3GPP	Samsung Electronics	METHOD FOR CONNECTING MOBILE STATIONS TO BASE STATION IN RADIO COMMUNICATION SYSTEM		TS 25.214	P1997003626 5		KR
3GPP	Samsung Electronics	DEVICE AND METHOD FOR ADAPTIVE CHANNEL ENCODING		TS 25.212	P1997003626 5		KR
3GPP	Samsung Electronics	DEVICE AND METHOD FOR PERFORMING HANDOFF IN MOBILE COMMUNICATION SYSTEM		TS 25.212	P1997006596 2		KR
3GPP	Samsung Electronics	METHOD AND APPARATUS FOR PROVIDING TIME SWITCHED TRANSMISSION DIVERSITY IN MOBILE COMMUNICATION SYSTEM		TS 25.211	P1998000552 6		KR
3GPP	Samsung Electronics	a method and an apparatus for turbo encoding/decoding for processing frame data according to 변		TS 25.212	P1998001138 0		KR
3GPP	Samsung Electronics	method and device for channel encoding for communication system		TS 25.212	P1998001395 6		KR
3GPP	Samsung Electronics	method and apparatus for channel encoding/decoding FOR COMMUNICATION SYSTEM		TS 25.212	P1998001395 7		KR
3GPP	Samsung Electronics	Complementary data communication method and apparatus for code division multiple access communication method		TS 25.214	P1998001781 8		KR
3GPP	Samsung Electronics	channel coding device and method for rate matching		TS 25.212	P1998002099 0		KR
3GPP	Samsung Electronics	device and method for cancelling code interference in cdma communication system		TS 25.213	P1998002773 6	P0318959	KR
3GPP	Samsung Electronics	APPARATUS AND METHOD FOR CALIBRATING MEMENT-OF-INERTIA AND CENT-OF-GRAVITY		TS 25.214	P1998003089 5	P0274087	KR
3GPP	Samsung Electronics	tstd transmitter for limiting transmission power of antenna and controlling method thereof for base station in mobile communication		TS 25.211	P1998003156 9	P0326314	KR

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3GPP	Samsung Electronics	CHANNEL ENCODING/DECODING IN COMMUNICATION SYSTEM		TS 25.212	P1998003247 1	P0338663	KR
3GPP	Samsung Electronics	DEVICE AND METHOD FOR INSERTING PREVIOUSLY KNOWN BITS IN INPUT STAGE OF CHANNEL ENCODER		TS 25.212	P1998003418 6		EP
3GPP	Samsung Electronics	DEVICE AND METHOD FOR INSERTING PREVIOUSLY KNOWN BITS IN INPUT STAGE OF CHANNEL ENCODER		TS 25.212	P1998003418 6		KR
3GPP	Samsung Electronics	PN SEQUENCE IDENTIFYING DEVICE IN CDMA COMMUNICATION SYSTEM		TS 25.211	P1998003579 7		KR
3GPP	Samsung Electronics	AFC DEVICE AND METHOD OF CONTROLLING RECEPTION FREQUENCY IN A DUAL-MODE TERMINAL		TS 34.108	P1998003602 3	P0274089	KR
3GPP	Samsung Electronics	interface canceling method and apparatus for wireless communication system		TS 34.108	P1998005786 6	P0306283	KR
3GPP	Samsung Electronics	interleaving/deinterleaving device and method for communication system		TS 25.212	P1998005795 9	P0346170	KR
3GPP	Samsung Electronics	interleaving/deinterleaving device and method for communication system		TS 25.211	P1998005906 8	P0350459	KR
3GPP	Samsung Electronics	an iterative decoder and an iterative decoding method for a communication system		TS 25.211	P1998006270 9	P0321978	KR
3GPP	Samsung Electronics	puncturing device and method for turbo encoder in mobile communication system		TS 25.211	P1998006272 5	P0315708	KR
3GPP	Samsung Electronics	2-dimensional interleaving apparatus and method		TS 25.211	P1999001179 9		KR
3GPP	Samsung Electronics	apparatus and method for gated transmission in a cdma communication system		TS 25.214	P1999001361 0		KR
3GPP	Samsung Electronics	channel encoding device and method for communication system		TS 25.212	P1999001386 9	P0318911	KR
3GPP	Samsung Electronics	cell search apparatus and method in cdma mobile communication system		TS 25.214	P1999001473 7	P0290678	KR
3GPP	Samsung Electronics	apparatus and method for synchronizing channels in a w-cdma communication system		TS 25.214	P1999001533 2		KR
3GPP	Samsung Electronics	turbo interleaving apparatus and method		TS 25.212	P1999001856 0		KR
3GPP	Samsung Electronics	apparatus and method for generating sync word and transmitting and receiving the sync word in w-cdma communication system		TS 25.213	P1999001964 4		KR
3GPP	Samsung Electronics	apparatus and method for gated transmission in cdma communication system		TS 25.214	P1999001964 7		KR

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3GPP	Samsung Electronics	apparatus and method for implementing handoff in mobile communication system with short sync channel	TS 25.214	P1999001968 1	P0350466	KR
3GPP	Samsung Electronics	apparatus and method for channel coding and multiplexing in cdma communication system	TS 25.212	P1999002622 1		KR
3GPP	Samsung Electronics	rate matching device and method for a data communication system	TS 25.212	P1999002697 8		KR
3GPP	Samsung Electronics	apparatus and method for generating scrambling code in unts mobile communication system	TS 25.213	P1999002727 9		KR
3GPP	Samsung Electronics	apparatus and method for controlling a demultiplexer and a multiplexer used for rate matching in a mobile communication system	TS 25.212	P1999002740 7		KR
3GPP	Samsung Electronics	apparatus and method for assigning a common packet channel in a cdma communication system	TS 25.331 TS 25.430 TS 25.211	P1999005363 0		KR
3GPP	Samsung Electronics	apparatus and method for assigning a common packet channel in a cdma communication system	TS 25.331 TS 25.922 TS 25.433	P2000000833 7		EP
3GPP	Samsung Electronics	apparatus and method for assigning a common packet channel in a cdma communication system	TS 25.331 TS 25.922 TS 25.433	P2000000833 7		KR
3GPP	Samsung Electronics	apparatus and method for assigning a common packet channel in a cdma communication system	TS 25.302 TS 25.303 TS 25.321 TS 25.331 TS 25.214	P2000000922 6		KR
3GPP	Samsung Electronics	Method For Measuring Confusion Rate Of a Common Packet Channel In a CDMA Communication System	TS 25.433 TS 25.302	P2000001875 2		KR
3GPP	Samsung Electronics	Method of transmitting/receiving information about orthogonal variable spreading factor codes assigned to user data in a high speed data packet access communication system	TS 25.213	P2001004858 0		KR
3GPP	Samsung Electronics	apparatus and method for channel coding and multiplexing in cdma communication system	TS 25.212	P346341		PL
3GPP	Samsung Electronics	device and method for controlling a demultiplexer and a multiplexer used for rate matching in a mobile communication system	TS 25.212	P346622		PL
3GPP	Samsung Electronics	rate matching device and method for a data communication system	TS 25.212	P346646		PL
3GPP	Samsung Electronics	device and method of channel coding for rate matching	TS 25.212	PI9906479-0		BR
3GPP	Samsung Electronics	device and method for cancelling code interference in cdma communication system	TS 25.213	PI9906577-0		BR

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3GPP	Samsung Electronics	rate matching device and method for a data communication system		TS 25.212	W002001004 46		ID
3GPP	Samsung Electronics	apparatus and method for generating scrambling code in umts mobile communication system		TS 25.213	W002001004 77		ID
3GPP	Samsung Electronics	device and method for controlling a demultiplexer and a multiplexer used for rate matching in a mobile communication system		TS 25.212	W020010046 0		ID
3GPP	Samsung Electronics	METHOD AND DEVICE FOR INSERTING PREVIOUSLY KNOWN BITS IN INPUT STAGE OF CHANNEL ENCODER		TS 25.212	W-2000 0737		ID
3GPP	Samsung Electronics	apparatus and method for channel coding and multiplexing in cdma communication system		TS 25.212	WO00200100 363		ID
3GPP	Samsung Electronics	apparatus and method for cancelling code interference in cdma communication system		TS 25.213	WO20000423		ID

Place, Date:2003.09.19**Signature:**

Kyong J. Ohm
(Signed for and on behalf of the SIGNATORY)

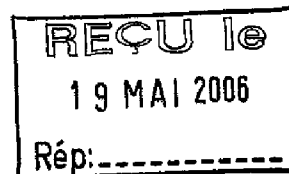
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ANNEX 1**IPR INFORMATION STATEMENT AND LICENSING DECLARATION FORMS**IPR Holder/OrganisationLegal Name: **Samsung Electronics Corporation**SignatoryName: **Seung Gun, Park**Position: **Vice President**Department: **Telecommunication R&D Center**Address: **DongSuwon P.O.BOX 105, 416, Maetan-3Dong, Yeongtong-Gu,
Suwon-City, Gyeonggi-Do, Korea 442-600**Tel.: **82-31-279-4887**Fax: **82-31-279-4560**E-mail: **sukjin.jang@samsung.com**IPR information statement

In accordance with the ETSI IPR Policy, Article 4.1, I hereby inform ETSI that,

with reference to the technical proposal identified as **3GPP**

and/or in relation to Work Item No.

and/or with reference to ETSI Standard No. **ETSI TS 23. xxx, ETSI TS 25.xxx, (see the
exact numbers of ETSI Standards No in ANNEX 2)**

it is my belief that the IPRs listed in Annex 2 are, or are likely to become, Essential IPRs in relation to that Standard.

IPR licensing declaration

The SIGNATORY has notified ETSI that it is the proprietor of the IPRs listed in Annex 2 and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above.

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

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

Place, Date:May 16, 2006Signature:

(Signed for and on behalf of the SIGNATORY)

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ANNEX 2

ETSI Standard, Technical Specification or Work Item				Patent Proprietor	Patent/ Application No.	Patent Subject/Title	Country of registration	OPTIONAL INFORMATION: Other Patents/Applications No. in same family	
Project or Standard name	Work Item or Standard No.	Section	Version (V.X.X.X)					Patent/Applicat ion No.	Country Applicable
UMTS	TS 25.331	10.2.16j 10.2.16m	V.6.8.0	Samsung Electronics Corporation	P2002-48610	METHOD OF TRANSMITTING/RECEIVING CONTROL MESSAGE IN A MOBILE COMMUNICATION SYSTEM PROVIDING MULTIMEDIA BROADCAST/MULTICAST SERVICE	KOREA (REPUBLIC OF)	2003235065	AUSTRALIA
								03127276.2	CHINA
								03018454.3	European Patent Office
								293551/2003	JAPAN
								2003125333	RUSSIAN FEDERATION
								641,500	UNITED STATES
UMTS	TS 25.346	8.2.2 10.2	V.2.3.0	Samsung Electronics Corporation	P2003-68953	method for transmitting/receiving service availability information of multimedia broadcasting/multicast service	KOREA (REPUBLIC OF)	2004216584	AUSTRALIA
								200410082095.2	CHINA
								04023415.5	European Patent Office
								592/KOL/2004	INDIA
								290420/2004	JAPAN
								957,779	UNITED STATES

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UMTS	TS 25.322	9.7.10	V6.7.0	Samsung Electronics Corporation	P2003-101768	SELECTIVE COMBINING METHOD AND APPARATUS IN A MOBILE COMMUNICATION SYSTEM	KOREA (REPUBLIC OF)	04031087.2	European Patent Office
								026,112	UNITED STATES
								2004/003529	Patent Cooperation Treaty
UMTS	TS 25.304 TS 25.346 TS 25.331	5.2.6.1.0, 5.2.6.1.1, 5.2.6.1.4 11.2 10.2.16m	v700	Samsung Electronics Corporation	P2003-58334 P2003-79761	cell reselection method for receiving packet data in a mobile communication system supporting mbms	KOREA (REPUBLIC OF)	04019983.8	European Patent Office
								W00200600512	INDONESIA
								924,078	UNITED STATES
								2004/002109	Patent Cooperation Treaty
UMTS	TS 25.331 TS 25.413	10.3.3.11 8.35	v6.9.0 v6.8.0	Samsung Electronics Corporation	P2003-8934 P2003-20275	method for managing service context for paging User equipment in a multimedia broadcast/multicast service	KOREA (REPUBLIC OF)	2004200630	AUSTRALIA
								200480004039.5	CHINA
								04003157.7	European Patent Office
								35702/2004	JAPAN
								2005125597	RUSSIAN FEDERATION
								766,360	UNITED STATES
04/000250	Patent Cooperation Treaty								

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UMTS	TS 25.212	4.8.4.1	v6.3.0	Samsung Electronics Corporation	P2003-57735 P2005-34772	method and apparatus for providing uplink packet data service in asynchronous wcdma system	KOREA (REPUBLIC OF)	2004269790	AUSTRALIA
								200480001088.3	CHINA
								04774369.5	European Patent Office
								668/KOLNP/05	INDIA
								2006-500705	JAPAN
								923,391	UNITED STATES
								2004/002108	Patent Cooperation Treaty
UMTS	TR25.321	11.8.1.3.2	v6.5.0	Samsung Electronics Corporation	P2003-68954	method and APPARATUS for scheduling uplink rates adaptively to fast rate ramping in a packet communication system	KOREA (REPUBLIC OF)	200410075731.9	CHINA
								04023417.1	European Patent Office
								593/KOL/2004	INDIA
								290419/2004	JAPAN
								956,926	UNITED STATES
UMTS	TS 25.346	8.2.12	V6.7.0	Samsung Electronics Corporation/BST	2002130570.6	Multimedia broadcasting and switching method of organizing broadcasting business point to point channel and point to multipoint channel	CHINA	1532779	European Patent Office
								2005-536142	JAPAN
								2005-0083637	KOREA (REPUBLIC OF)
								WO04/017580	Patent Cooperation Treaty

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UMTS	TS 25.346	4.2.4.4 4.2.4.5	v7.0.0	Samsung Electronics Corporation/BST	2003103703.8	Reordering method for enhancement uplink dedicated channel harq in wcdma system	CHINA	1595365	European Patent Office
								2005-0106435	KOREA (REPUBLIC OF)
								WO04/073273	Patent Cooperation Treaty
UMTS	TS 24.008	4.7.13	v6.8.0	Samsung Electronics Corporation/BST	2003127431.5	A method to differentiate service request caused by MBMS service or other dedicated service	CHINA		
UMTS	TS 25.309 TS 25.214	6.3.2 6B.1	v.6.6.0 v.6.8.0	Samsung Electronics Corporation	P2004-31552	APPARATUS and method for supporting soft combining of scheduling signals for uplink packet data service in a mobile communication system	KOREA (REPUBLIC OF)	200510081765.3	CHINA
								05009836.7	European Patent Office
								133514/2005	JAPAN
								121,032	UNITED STATES

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UMTS	TS 25.213	4.2.1.3 4.3.1.2.3	v6.1.0	Samsung Electronics Corporation	P2004-9821	APPARATUS AND METHOD FOR ALLOCATING OVSF CODES AND I/O CHANNELS FOR REDUCING PEAK-TO-A VERAGE POWER RATIO IN TRANSMITTING DATA VIA ENHANCED UP- LINK DEDICATED CHANNELS IN WCDMA SYSTEM	KOREA (REPUBLIC OF)	057,618	UNITED STATES
								2005/000402	Patent Cooperation Treaty
UMTS	TS 25.321	9.2.5.3.2	V6.8.0	Samsung Electronics Corporation	P2003-59172	METHOD AND APPARATUS FOR SCHEDULING ASSIGNMENT OF UPLINK PACKET TRANSMISSION IN MOBILE TELECOMMUNICATIO N SYSTEM	KOREA (REPUBLIC OF)	2004205233	AUSTRALIA
								200410095124.9	CHINA
								04020292.1	European Patent Office
								513/kol/2004	INDIA
								245851/2004	JAPAN
UMTS	TS 25.331	10.2.16j, 8,5,27	v700	Samsung Electronics Corporation	P2003-54672	method for cell reselection for reception of packet data	KOREA (REPUBLIC OF)	925,619	UNITED STATES
								2004302148	AUSTRALIA
								04018846.8	European Patent Office
								914,451	UNITED STATES
								2004/001986	Patent Cooperation Treaty

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UMTS	TS 25.331	8.6.9.3 10.3.9a.7	V.6.6.0	Samsung Electronics Corporation	P2004-78108	PARTIAL COMBINING METHOD AND APPARATUS FOR MULTIMEDIA BROADCAST/MULTICA ST SERVICE	KOREA (REPUBLIC OF)	05021442.8	European Patent Office
								239,671	UNITED STATES
								2005/003246	Patent Cooperation Treaty
UMTS	TS 25.346 TS 25.331	11.2 8.5.27	V7.0.0	Samsung Electronics Corporation	P2004-62545	METHOD AND APPARATUS FOR DISTINGUISHING BETWEEN SERVICES OF ALL FREQUENCY BANDS AND SPECIFIC FREQUENCY BAND	KOREA (REPUBLIC OF)	05017336.8	European Patent Office
								199,286	UNITED STATES
UMTS	TS 25.331	8.6.9.2, 8.5.27, 8.7.3.4, 10.3.7.43a	v700	Samsung Electronics Corporation	P2004-58947	METHOD AND APPARATUS FOR SELECTING FREQUENCY LAYER FOR COMMECTED MODE UE IN AN MBMS MOBILE COMMUNICATION SYSTEM	KOREA (REPUBLIC OF)	2005203267	AUSTRALIA
								2,513,782	CANADA
								200510109898.7	CHINA
								05016352.6	European Patent Office
								216022/2005	JAPAN
								2005123793	RUSSIAN FEDERATION
189,007	UNITED STATES								

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UMTS	TS 25.309	9.3.1.1.3	v620	Samsung Electronics Corporation	P2004-62265	METHOD AND APPARATUS FOR SIGNALING USER EQUIPMENT STATUS INFORMATION FOR UPLINK PACKET TRANSMISSION IN A SOFT HANDOVER REGION	KOREA (REPUBLIC OF)	2005203490	AUSTRALIA
								200510113291.6	CHINA
								05017074.5	European Patent Office
								229879/2005	JAPAN
								2005124991	RUSSIAN FEDERATION
								196,481	UNITED STATES
UMTS	TS 25.309	4.2.1.3 4.3.1.2.3	v6.2.0	Samsung Electronics Corporation	P2004-55678	METHOD AND APPARATUS FOR PERFORMING AUTONOMOUS TRANSMISSION IN A MOBILE COMMUNICATION SYSTEM FOR SUPPORTING AN ENGAGED UPLINK DEDICATED CHANNEL	KOREA (REPUBLIC OF)	2005203110	AUSTRALIA
								200510092356.3	CHINA
								05015482.2	European Patent Office
								627/KOL/05	INDIA
								209098/2005	JAPAN
								2005122724	RUSSIAN FEDERATION
UMTS	TS 25.331	8.6.9.6		Samsung Electronics Corporation	P2004-73574	METHOD AND APPARATUS FOR INDICATING CELL SELECTION WHEN A SESSION IS STOPPED IN A MULTIMEDIA BROADCAST/MULTICAST SERVICE SYSTEM	KOREA (REPUBLIC OF)	05019896.9	European Patent Office
								225,008	UNITED STATES
								2005/003025	Patent Cooperation Treaty

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UMTS	TS 25.331	8.5.19a, 10.2.48.8.8	V.6.4.0	Samsung Electronics Corporation	P2003-30639	APPARATUS and method for transmitting/receiving control information for supporting multimedia broadcast/multicast service	KOREA (REPUBLIC OF)	200480012958.7	CHINA
								04011556.0	European Patent Office
								2006-500689	JAPAN
								845,001	UNITED STATES
								2004/001061	Patent Cooperation Treaty
UMTS	TS 25.214	5.1.2.6	v6.5.0	Samsung Electronics Corporation	P2004-0042300	method and APPARATUS for data transmission in a mobile telecommunication supporting enhanced uplink service	KOREA (REPUBLIC OF)	2005202512	AUSTRALIA
								200510091337.9	CHINA
								05012448.6	European Patent Office
								488/KOLNP/20 05	INDIA
								170181/2005	JAPAN
UMTS	TS 25.309	14	v6.3.0	Samsung Electronics Corporation	P2002-68266	scheduling apparatus and method for determining a desired noise rise over thermal noise in a cdma mobile communication system	KOREA (REPUBLIC OF)	701,245	UNITED STATES
								148,181	UNITED STATES
								95118184.X	CHINA
								01121232.2	CHINA
								03102998.1	CHINA
UMTS	TS25.213	4.2	V3.9.0	Samsung Electronics Corporation	P1994-30743	receiving apparatus for base station in a code division multiple access system and signal receiving method	KOREA (REPUBLIC OF)	562,281	UNITED STATES
								492,065	UNITED STATES
								414,203	UNITED STATES

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UMTS	TS 25.214 TS 25.212	4.4	v6.1	Samsung Electronics Corporation	P1999-05263	power control APPARATUS and method for inter-frequency handoff in cdma communication system	KOREA (REPUBLIC OF)	25788/00	AUSTRALIA
								2,328,352	CANADA
								00800572.9	CHINA
								00904116.1	GERMANY
								00904116.1	European Patent Office
								00904116.1	FINLAND
								00904116.1	FRANCE
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								2000/00398	INDIA
								00904116.1	ITALY
								2000-599153	JAPAN
								00904116.1	SWEDEN
								503,764	UNITED STATES
00/00114	Patent Cooperation Treaty								
UMTS	TS 25.214 TS 25.211 TS 25.212	5.1.2.5 5.2 4.4	v6.1 v6.0 v6.1	Samsung Electronics Corporation	P1998-22214	device and method for controlling power during transmission	KOREA (REPUBLIC OF)	41715/99	AUSTRALIA
								PI9906493-6	BRAZIL
								2297143	CANADA
								99800890.7	CHINA
								99925445.1	GERMANY
								29924367.2	GERMANY
								99925445.1	European Patent Office
								99925445.1	FINLAND
								99925445.1	FRANCE
								99925445.1	UNITED KINGDOM
545/cal/99	INDIA								

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								99925445.1	ITALY
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								2000103039	RUSSIAN FEDERATION
								99925445.1	SWEDEN
								333,192	UNITED STATES
								PCT199900294	Patent Cooperation Treaty
UMTS	TS 25.211 TS 25.214	5.3.3.5 5.2.3.2	v 6.0.0	Samsung Electronics Corporation	P1999-15224	cell search APPARATUS and method in asynchronoUS communication system	KOREA (REPUBLIC OF)	44358/00	AUSTRALIA
								2,335,028	CANADA
								00800688.1	CHINA
								00925710.6	GERMANY
								00925710.6	European Patent Office
								00925710.6	FRANCE
								00925710.6	UNITED KINGDOM
								616140/2000	JAPAN
								560,732	UNITED STATES
								00/00405	Patent Cooperation Treaty
UMTS	TS 25.214	6A	V5.6.0	Samsung Electronics Corporation	P1998-28975	PROCESSING PACKET DATA IN MOBILE COMMUNICATION SYSTEM	KOREA (REPUBLIC OF)	PI9906601-7	BRAZIL
								2,302,269	CANADA
								99801423.0	CHINA
								99 933 264.6	GERMANY
								99933264.6	European Patent Office
								99 933 264.6	FINLAND
								99 933 264.6	FRANCE
								99 933 264.6	UNITED KINGDOM

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								630/cal/99	INDIA
								99 933 264.6	ITALY
								560739/2000	JAPAN
								2000106436	RUSSIAN FEDERATION
								99 933 264.6	SWEDEN
								354,707	UNITED STATES
								PCT/99/00380	Patent Cooperation Treaty
UMTS	TS 25.331	10.2.16	V.6.7.0	Samsung Electronics Corporation/SERI	GB 200400255.6	Radio Message MBMS Finalisation	UNITED KINGDOM	20050195760	UNITED STATES
								PCT05/067175	Patent Cooperation Treaty
UMTS	TS 25.331 TS 25.427	8.3.4.3 5.12	V.6.7.0	Samsung Electronics Corporation/SERI	GB 200417568.3	Telecommunications methods and APPARATUS	UNITED KINGDOM		
UMTS	TS 25.331 TS 25.346 TS 25.423	10.2.16e 5.1.10 8.2.2.2	V.6.7.0	Samsung Electronics Corporation/SERI	GB 200406664.3	Method of transmitting information related to a multicast service in a mobile communication network	UNITED KINGDOM	1581014	European Patent Office
								20050232176	UNITED STATES
								WO05/091531	European Patent Office
UMTS	TS 25.331	10.2.16f/g/ k	V.6.7.0	Samsung Electronics Corporation/SERI	GB 200421084.5	Signalling of radio bearer information	UNITED KINGDOM		

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UMTS	TS 25.413	8.36 4.5.1.1.2	v6.5.0 v6.2.0	Samsung Electronics Corporation/BST	2002150342.7	Method for Multimedia Broadcast/Multicast Service Signaling Bearer Connection on Iu Interface	CHINA	1568181	European Patent Office
								2006-506001	JAPAN
								2005-0073613	KOREA (REPUBLIC OF)
								WO04/043021	Patent Cooperation Treaty
UMTS	TS 25.331	8.3.1 8.7.4 8.6.9.6 10.3.3.3 8.1.3 10.3.3.11	V6.7.0	Samsung Electronics Corporation/BST	2003147532.9	Method for Initiating Uplink Signaling Proactively by MBMS UE	CHINA		
UMTS	TS 24.008 TS23.246	9.5.22 8.2	v6.8.0 v6.9.0	Samsung Electronics Corporation/BST	2003154674.9	Method for Supporting Backward Compatibility of MBMS	CHINA	WO05/020461	Patent Cooperation Treaty
UMTS	TS 25.214	5.1.2.5B.2. 3	v650	Samsung Electronics Corporation	P2005-1400	METHOD FOR CONFIGURING GAIN FACTORS FOR UPLINK SERVICE IN RADIO TELECOMMUNICATIO N SYSTEM	KOREA (REPUBLIC OF)	06000204.5	European Patent Office
								1777/2006	JAPAN
								326,595	UNITED STATES
UMTS	TS 25.427	6.3.3.9.9	v6.4.0	Samsung Electronics Corporation	P2005-25893		KOREA (REPUBLIC OF)		

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UMTS	TS 25.212	4.10.4	v6.5.0	Samsung Electronics Corporation	P2004-0099917	METHOD AND APPARATUS FOR TRANSMITTING AND RECEIVING DATA WITH HIGH RELIABILITY IN A MOBILE COMMUNICATION SYSTEM SUPPORTING PACKET DATA TRANSMISSION	KOREA (REPUBLIC OF)	2005239657	AUSTRALIA
								200510129702.0	CHINA
								05026149.4	European Patent Office
									INDIA
								344041/2005	JAPAN
								2005137244	RUSSIAN FEDERATION
	UNITED STATES								
UMTS	TS 25.309	9.2.1	v6.3.0	Samsung Electronics Corporation	P2004-0090043	METHOD AND APPARATUS FOR SCHEDULING UPLINK DATA TRANSMISSION USING UE-ID IN A MOBILE COMMUNICATION SYSTEM SUPPORTING UPLINK PACKET DATA SERVICE	KOREA (REPUBLIC OF)	200510023010.8	CHINA
								05024127.2	European Patent Office
								1006/KOL/2005	INDIA
								321420/2005	JAPAN
								2005134199	RUSSIAN FEDERATION
267,580	UNITED STATES								
UMTS	TS 25.214	5.1.2.5C	v6.6.0	Samsung Electronics Corporation	P2005-0010870	METHOD AND APPARATUS FOR SETTING GAIN FACTORS FOR DEDICATED PHYSICAL CHANNELS IN MOBILE TELECOMMUNICATION SYSTEM	KOREA (REPUBLIC OF)	28754/2006	JAPAN

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UMTS	TS 25.309	9.2.1	v6.3.0	Samsung Electronics Corporation	P2004-0093283	METHOD AND APPARATUS FOR TRANSMITTING AND RECEIVING DOWNLINK CONTROL INFORMATION IN A MOBILE COMMUNICAATION SYSTEM SUPPORTING UPLINK PACKET DATA SERVICE	KOREA (REPUBLIC OF)	272,823	UNITED STATES
								2005/003864	Patent Cooperation Treaty
UMTS	TS 25.423	8.5.11 9.2.1.87	v6.6.0	Samsung Electronics Corporation	P2004-073972	METHOD AND APPARATUS FOR INDICATING PREFERRED LAYER INFORMATION IN MULTIMEDIA BROADCAST/MULTICAST SERVICE (MBMS)	KOREA (REPUBLIC OF)	226,398	UNITED STATES
								2005/003059	Patent Cooperation Treaty
UMTS	TS 25.423	8.3	V6.6.0	Samsung Electronics Corporation	P2004-111534	METHOD AND APPARATUS FOR PROVIDING MULTIMEDIA BROADCAST/MULTICAST SERVICE ACCORDING TO MOBILITY OF USER EQUIPMENT	KOREA (REPUBLIC OF)	2005/004505	Patent Cooperation Treaty

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UMTS	TS 25.331 TS 25.346	8.5.27, 8.7.6.2, 10.2.16i 8.3.9	v700	Samsung Electronics Corporation	P2004-073973	HARD HANDOVER AND APPARATUS FOR USER EQUIPMENT (UE) USING FREQUENCY LAYER CONNERGENCE (FLC) IN A MULTIMEDIA BROADCAST/MULTICA ST SYSTEM (MBMS) SYSTEM	KOREA (REPUBLIC OF)	05019895.1	European Patent Office
								224,018	UNITED STATES
								2005/003024	Patent Cooperation Treaty
UMTS	TS 25.323	5.7.2	V6.1.0	Samsung Electronics Corporation	P2004-009392	METHOD FOR RESUMING HEADER DECOMPRESSION IN A MULTIMEDIA BROADCAST/MULTICA ST SERVICE SYSTEM	KOREA (REPUBLIC OF)	2005200657	AUSTRALIA
								200510062812. X	CHINA
								05003094.9	European Patent Office
								97/KOL/05	INDIA
								36930/2005	JAPAN
								063,348	UNITED STATES
UMTS	TS 25.433 TS 25.309	2.18 14.1	V6.5.0	Samsung Electronics Corporation	P2005-27395	METHOD OF MANAGING RADIO RESOURCES AND NODE B APPARATUS IMPLEMENTING THE SAME	KOREA (REPUBLIC OF)	2006/001148	Patent Cooperation Treaty
UMTS	TS 25.413	8.36.2, 9.2.3.42	v6.6.0	Samsung Electronics Corporation/BST	200510008014.9	Inform MBMS Service on Iu Interface	CHINA		

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UMTS	TS 33.246	6.4.5.1 6.3.3.1 6.5.3 6.4.4 6.5.4	v6.3.0	Samsung Electronics Corporation/BST	200410092587.X	Key Management Method for MBMS	CHINA		
UMTS	TS 25.331	8.7.3.3.3	v6.2.0	Samsung Electronics Corporation/BST	200410088763.2	A method to receive MBMS service for PMM_IDLE USers	CHINA		
GSM	TS 23.040	9.2.3.24.10	v6.5.0	Samsung Electronics Corporation/BST	P1999-0009435	Data transmitting and receiving apparatus and method for digital mobile station	KOREA (REPUBLIC OF)	6920331	US
								127881	US
								00104752.3	CN
								200510095853.9	CN
								00105854.4	EP
05025482.0	EP								

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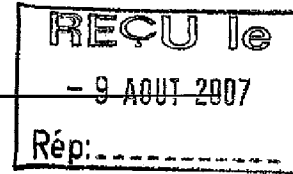


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 Page 1 of 5 (version 5)

IPR information statement and licensing declaration

IPR Holder/Organisation

Legal Name: SAMSUNG ELECTRONICS CO., LTD. _____



Signatory

Name: Seung Gun, Park _____

Position: Vice President _____

Department: Telecommunication R&D Center _____

Address: Dong Suwon P.O.BOX 105, 416, Maetan-3Dong, Yeongtong-Gu, _____
 Suwon-City, Gyeonggi-Do, Korea 442-600 _____

Tel.: 82-31-279-4887 _____ Fax: 82-31-279-4560 _____

E-mail: sukjin.jang@samsung.com _____

IPR information statement

In accordance with the ETSI IPR Policy, Clause 4.1, I hereby inform ETSI that,

with reference to the technical proposal identified as 3GPP _____
 and/or
 in relation to Work Item No. _____
 and/or
 with reference to ETSI Standard No. TS 23.279, 24.008, 25.212, 25.214, 25.321,
 25.322, 25.331, 25.346, 25.413, 25.423

it is my belief that the IPRs listed in the attached IPR information statement annex are, or are likely to become, Essential IPRs in relation to that Standard.

IPR licensing declaration

The SIGNATORY has notified ETSI that it is the proprietor of the IPRs listed in the attached *IPR information statement annex* and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above.

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

This undertaking is made subject to the condition that those who seek licences agree to reciprocate same in respect of the STANDARD in accordance with Clause 6.1 of the ETSI IPR Policy (delete this paragraph if this condition is not required).

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

Place, Date:

07/08/2007
 (Place, Date)

Signature:

(Signed for and on behalf of the SIGNATORY)

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ETSI Standard, Technical Specification or Work Item		Patent Proprietor	Application No.	Patent No.	Patent Subject/Title	Country of registration	OPTIONAL INFORMATION - Other Patents/Applications No. in same family			
Project or Standard name	Work Item or Standard No						Illustrative Specific part of the standard (e.g. Section)	Version (V.X.X.X)	Patent/Application No.	Country Applicable
UMTS	3GPP TS 25.212	4.6.2.3	V7.0.0	Samsung Electronics Corp.	2002-0047557	446509	Method of transmitting/receiving information about orthogonal variable spreading factor codes assigned to user data in a high speed data packet access communication system	KOREA	2002300503 2,397,428 02151853.X 10236913.5 20021460 0210215 0218506.4 MI 2002A001821 235010/2002 0202405.7 218,158	AUSTRALIA CANADA CHINA GERMANY FINLAND FRANCE UNITED KINGDOM ITALY JAPAN Sweden UNITED STATES
UMTS	3GPP TS 25.331	8.7.3.3	V6.d.0	Samsung Electronics Corp.	200410088763.2		A method to receive MBMS service for PMM_IDLE users	CHINA	2005/003663	PCT
UMTS	3GPP TS 25.331	8.6.6	V6.d.0	Samsung Electronics Corp.	2005-7024473		Method for Initiating Uplink Signaling Proactively by MBMS UE	KOREA	04748395.3 2006-518551 561,232 2004/001678	European Patent Office JAPAN UNITED STATES PCT



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UMTS	3GPP TS 25.331	8.7.5	V6.d.0	Samsung Electronics Corp.	2006-7013356	METHOD FOR TRANSMITTING MESSAGES RELATED TO A BROADCAST OR MULTICAST SERVICE IN A CELLULAR COMMUNICATIONS SYSTEM	KOREA	2005204205	AUSTRALIA
								2544270	CANADA
UMTS	3GPP TS 23.279	8.6	V8.0.0	Samsung Electronics Corp.	2006-0038753	METHOD AND APPARATUS FOR INTERWORKING VOICE AND MULTIMEDIA SERVICES BETWEEN CSI TERMINAL AND IMS TERMINAL	KOREA	200580001283.0	CHINA
								112005000081.8	GERMANY
UMTS	3GPP TS 25.321	11.8.1.5	V6.7.0	Samsung Electronics Corp.	2005-0096295	METHOD AND APPARATUS FOR TRANSMITTING/RECEIVING CONTROL INFORMATION OF USER EQUIPMENT FOR UPLINK DATA TRANSMISSION	KOREA	029,702	UNITED STATES
								2005/000012	PCT
UMTS	3GPP TS 25.413	8.36.2	V6.6.0	Samsung Electronics Corp.	200310104465.3	Method and apparatus of information for MBMS session start	CHINA	200610137570.0	CHINA
								06016031.4	European Patent Office
UMTS	3GPP TS 25.423	8.3.1	V6.6.0	Samsung Electronics Corp.	200410001431.6	Method to inform MBMS related information	CHINA	210382/2006	JAPAN
								496,712	UNITED STATES
UMTS	3GPP TS 25.321	11.8.1.3.1	V6.7.0	Samsung Electronics Corp.	2005-0003914	METHOD AND APPARATUS FOR SCHEDULING UPLINK DATA TRANSMISSION FOR MOBILE STATION IN SOFT HANDOVER REGION IN A MOBILE COMMUNICATION SYSTEM	KOREA	06021474.9	European Patent Office
								546,573	UNITED STATES
UMTS	3GPP TS 25.214	6.B.3	V6.7.0	Samsung Electronics Corp.	2004-0058452	system and method for controlling a tti in a w-odma communication system supporting enhanced uplink dedicated transport channel	KOREA	2006/004103	PCT
								2005229670	AUSTRALIA
								200510131585.1	CHINA
								05024121.5	European Patent Office
								320138/2005	JAPAN
								263,846	UNITED STATES
								957,814	UNITED STATES



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UMTS	3GPP TS 25.321	11.8.1.4	V6.7.0	Samsung Electronics Corp.	2004-0082316		METHOD AND APPARATUS FOR DATA TRANSMISSION/SCHEDULING FOR UPLINK PACKET DATA SERVICE IN A MOBILE COMMUNICATION SYSTEM	KOREA	200580020113.7	CHINA
									05755691.1	European Patent Office
									153,490	UNITED STATES
									2005/001855	PCT
UMTS	3GPP TS 25.212	4.8.4.1	V6.7.0	Samsung Electronics Corp.	2004-0032012	P0646799	method and apparatus for determining rate matching parameters for a transport channel in a mobile telecommunication system	KOREA	05009833.4	European Patent Office
									121,002	UNITED STATES
									2005242125	AUSTRALIA
									200510128850.0	CHINA
									05026742.6	European Patent Office
UMTS	3GPP TS 25.331	8.1.8.2	V6.5.0	Samsung Electronics Corp.	2005-0118851	P0863436	METHOD AND APPARATUS FOR INFORMATION RADIO ACCESS NETWORK OF A SELECTED CORE NETWORK IN FROM USER EQUIPMENT IN A NETWORK SHARING SYSTEM	KOREA	1114/KOLNP/05	INDIA
									352529/2005	JAPAN
									2005138022	RUSSIAN FEDERATION
									295,722	UNITED STATES
UMTS	3GPP TS 25.331	8.5.23	V6.a.0	Samsung Electronics Corp.	2005-0104634		METHOD AND APPARATUS FOR REPORTING INTER- FREQUENCY MEASUREMENT USING RACH MESSAGE IN A MOBILE COMMUNICATION SYSTEM	KOREA	06009254.1	European Patent Office
									417,213	UNITED STATES
UMTS	3GPP TS 25.331	8.1.1.3	V6.a.0	Samsung Electronics Corp.	2005-009765		METHOD AND APPARATUS FOR ALLOWING USER EQUIPMENT TO DETERMINE VALIDITY OF SYSTEM INFORMATION BEFORE RECEIVING THE SAME IN A NETWORK SHARING SYSTEM	KOREA	06001721.7	European Patent Office
									340,854	UNITED STATES
UMTS	3GPP TS 25.322	9.2.2.5, 9.2.2.8	V6.9.0	Samsung Electronics Corp.	2005-0037774		METHOD AND APPARATUS FOR TRANSMITTING/RECEIVING PACKET DATA USING PRE-	KOREA	06009256.6	European Patent Office
									417,219	UNITED STATES



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							DEFINED LENGTH INDICATOR IN A MOBILE COMMUNICATION SYSTEM		2006/001699	PCT
UMTS	3GPP TS 25.346	5.2.5	V6.0.0	Samsung Electronics Corp.	2005-0092572		METHOD AND APPARATUS FOR FREQUENCY SELECTION AT START OF SERVICE SESSION IN MBMS SYSTEM	KOREA	05021524.3	European Patent Office
UMTS	3GPP TS 25.331	8.1.3.6	V6.d.0	Samsung Electronics Corp.	GB 0520360.9		Improvements in RRC connection establishment	UNITED KINGDOM	259,688	UNITED STATES
UMTS	3GPP TS 24.008	9.4.4.1, 9.4.17.1	V6.e.0	Samsung Electronics Corp.	GB 0517484.2		Improvements in Mobile Telecommunication security	UNITED KINGDOM	2006/003362	PCT
UMTS	3GPP TS 25.423	8.2.1.2	V6.d.0	Samsung Electronics Corp.	GB 0612631.2		MBMS enhancements to improve Mobile TV support	UNITED KINGDOM		

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IPR Holder/Organisation

Legal Name: SAMSUNG ELECTRONICS CO., LTD. _____

Signatory

Name: Seung Gun, Park _____

Position: Vice President _____

Department: Telecommunication R&D Center _____

Address: Dong Suwon P.O.BOX 105, 416, Maetan-3Dong, Yeongtong-Gu, _____

Suwon-City, Gyeonggi-Do, Korea 442-600 _____

Tel.: 82-31-279-5067 _____ Fax: 82-31-279-4560 _____

E-mail: jh1.jung@samsung.com _____

IPR information statement

In accordance with the ETSI IPR Policy, Clause 4.1, I hereby inform ETSI that,
with reference to the technical proposal identified as 3GPP _____

and/or

in relation to Work Item No. _____

and/or

with reference to ETSI Standard No. TS 25. 212, TS 25.309, TS 25.321, TS 25.331

it is my belief that the IPRs listed in the attached IPR information statement annex are, or are likely to become, Essential IPRs in relation to that Standard.

IPR licensing declaration

The SIGNATORY has notified ETSI that it is the proprietor of the IPRs listed in the attached *IPR information statement annex* and has informed ETSI that it believes that the IPRs may be considered ESSENTIAL to the Standards listed above.

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

This undertaking is made subject to the condition that those who seek licences agree to reciprocate the same in respect of the STANDARD in accordance with Clause 6.1 of the ETSI IPR Policy (delete this paragraph if this condition is not required).

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

Place, Date:

24 Jul 2008

(Place, Date)

Signature:

S. G. _____

(Signed for and on behalf of the SIGNATORY)

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ETSI Standard, Technical Specification or Work Item				Patent Proprietor	Application No.	Patent No.	Patent Subject/Title	Country of registration	OPTIONAL INFORMATION: Other Patents/Applications No. in same family*	
Project or Standard name	Work Item or Standard No.	Section	Version (V.X.X.X)						Patent/Application No.	Country Applicable
UMTS	3GPP TS 25.212	4.2.3.2	V.3.2.0	Samsung Electronics Corporation	1998-0059068	0350459	INTERLEAVING/DEINTERLEAVING DEVICE AND METHOD FOR COMMUNICATION SYSTEM	KOREA (REPUBLIC OF)	6,493,815	UNITED STATES
									2353878	CANADA
									ZL99815036.3	CHINA
									3814146	JAPAN
									761546	AUSTRALIA
UMTS	3GPP TS 25.331	10.3.6.2 1	V.3.8.0	Samsung Electronics Corporation	1999-34014	0429545	METHOD FOR COMMUNICATING SCRAMBLING CODE ID IN MOBILE COMMUNICATION SYSTEM	KOREA (REPUBLIC OF)	762032	AUSTRALIA
									2346845	CANADA
									ZL00801691.7	CHINA
									142489	ISRAEL
									207743	INDIA
									3992981	JAPAN
									2214695	RUSSIAN FEDERATION
									7,221,695	UNITED STATES
2001/2906	SOUTH AFRICA									
UMTS	3GPP TS 25.309	11.1.1	V.6.2.0	Samsung Electronics Corporation	2003-0000466		METHOD FOR DETERMINING DATA RATE USER EQUIPMENT SUPPORTING EUDCH SERVICE	KOREA (REPUBLIC OF)	zl200410028203.8	CHINA
	3GPP TS 25.321	9.2.5.3.2	V.6.2.0						7,209,749	UNITED STATES
									4038483	JAPAN



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UMTS	3GPP TS 25.212	4.5	V.6.0.0	Samsung Electronics Corporation	2001-0064742	0827147	TRANSCIVER APPARATUS AND METHOD FOR EFFICIENT HIGH- SPEED DATA RETRANSMISSION AND DECODING IN A CDMA MOBILE COMMUNICATION SYSTEM	KOREA (REPUBLIC OF)	2002301552	AUSTRALIA
									2381719	UNITED KINGDOM
									2408875	CANADA
									ZL 02151899.8	CHINA
									0213110	FRANCE
									523495	SWEDEN
									3566273	JAPAN
7,027,782	UNITED STATES									
UMTS	3GPP TS 25.212	4.5	V.6.0.0	Samsung Electronics Corporation	2001-34488	0689551	APPARATUS AND METHOD FOR TRANSMITTING AND RECEIVING DATA IN A CDMA MOBILE COMMUNICATION SYSTEM	KOREA (REPUBLIC OF)	ZL02127246.8	CHINA
									2378368	UNITED KINGDOM0
									2393086	UNITED KINGDOM1
									2404313	UNITED KINGDOM2
									3753677	JAPAN
									7,093,178	UNITED STATES
UMTS	3GPP TS 25.212	4.5	V.6.0.0	Samsung Electronics Corporation	2001-0044842	0539864	APPARATUS AND METHOD FOR RETRANSMITTING HIGH-SPEED DATA IN A CDMA MOBILE COMMUNICATION SYSTEM	KOREA (REPUBLIC OF)	2002300260	AUSTRALIA
									2380374	UNITED KINGDOM
									ZL02148206.3	CHINA
									524830	SWEDEN
									7,283,509	UNITED STATES
UMTS	3GPP TS 25.212	4.5	V.6.0.0	Samsung Electronics Corporation	2001-0064114	0526525	TRANSMISSION/RECEIVING APPARATUS AND METHOD FOR PACKET RETRANSMISSION IN A MOBILE COMMUNICATION SYSTEM	KOREA (REPUBLIC OF)	2002301480	AUSTRALIA
									2408452	CANADA
									02160221.2	CHINA
									10248446	GERMANY



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UMTS	3GPP TS 25.212	4.5	V.6.0.0	Samsung Electronics Corporation	2001-0063519	0464325	Transmitting/receiving apparatus and method for packet retransmission in a mobile communication system	KOREA (REPUBLIC OF)	2382010	UNITED KINGDOM
									273,096	UNITED STATES
									2002301470	AUSTRALIA
									2408131	CANADA
									02151562.X	CHINA
									200510126992.3	CHINA
									10248018	GERMANY
									20021829	FINLAND
									0212735	FRANCE
									2381718	UNITED KINGDOM
									2396787	UNITED KINDOM
									MI2002A002167	ITALY
									3865680	JAPAN
									4064385	JAPAN
271,277	UNITED STATES									
UMTS	3GPP TS 25.212	4.5	V.6.0.0	Samsung Electronics Corporation	2001-0067694	0474682	Transmitting/receiving apparatus and method for packet retransmission in a mobile communication system	KOREA (REPUBLIC OF)	2002301670	AUSTRALIA
									2410107	CANADA
									02154261.5	CHINA
									200510055804.2	CHINA
									10250867.4	GERMANY
									20021932	FILAND
									0213688	FRANCE
									2382284	UNITED KINDOM
									0325480.2	UNITED KINDOM
									MI2002A002326	ITALY
3926248	JAPAN									



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									7,362,733	UNITED STATES
UMTS	3GPP TS 25.212	4.5	V.6.0.0	Samsung Electronics Corporation	2001-0041405	0450968	Apparatus and method for transmitting and receiving data in a CDMA mobile communication system	KOREA (REPUBLIC OF)	02128224.2	CHINA
									10228809.7	GERMANY
									0208008	FRANCE
									2378870	GERMANY
									3701263	JAPAN
									183,824	UNITED STATES
UMTS	3GPP TS 25.212	4.5	V.6.0.0	Samsung Electronics Corporation	2001-083064	0584426	INTERLEAVING APPARATUS AND METHOD FOR SYMBOL MAPPING IN AN HSDPA MIBILE COMMUNICATION SYSTEM	KOREA (REPUBLIC OF)	ZL02159600.X	CHINA
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UMTS	3GPP TS 25.212	4.5	V.6.0.0	Samsung Electronics Corporation	2001-066887	0744347	APPARATUS AND METHOD FOR TRANSMITTING/RECEIVING DATA IN A CDMA MOBILE COMMUNICATION SYSTEM	KOREA (REPUBLIC OF)	7,280,606	UNITED STATES
									851,275	UNITED STATES

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