2 INDUSTRIAL PROPERTY RIGHTS (IPRs)

Although this ARIB Standard contains no specific reference to any Essential Industrial Property Rights relating thereto, the holders of such Essential Industrial Property Rights state to the effect that the rights listed in Attachment 1 and 2, which are the Industrial Property Rights relating to this standard, are held by the parties also listed therein, and that to the users of this standard, in the case of Attachment 1, such holders shall not assert any rights and shall unconditionally grant a license to practice such Industrial Property Rights contained therein, and in the case of Attachment 2, the holders shall grant, under the reasonable terms and conditions, a non-exclusive and non-discriminatory license to practice the Industrial Property Rights contained therein. However, this does not apply to anyone who uses this ARIB Standard and also owns and lays claim to any other Essential Industrial Property Rights of which is covered in whole or part in the contents of provisions of this ARIB Standard.

List of Essential Industrial Property Rights (IPRs) for

ARIB STD-T63 "IMT-2000 DS-CDMA System"

ARIB STD-T63 Ver. 1.00

Attachment 1 List of Essential Industrial Property Rights

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. 〔Applied in Japan〕	REMARKS
None			

Attachment 2 List of Essential Industrial Property Rights (selection of option 2)

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. 〔Applied in Japan〕	REMARKS
NTT Mobile Communications Network, Inc.	(1) 移動通信ハンドオーバ方法および移動局装置と基地局装置	特開平 7-298335	
	(2) ＣＤＭＡ移動通信システムにおけるパイロットチャネル送信方法	特開平 10-145839	
	(3) ＣＤＭＡ移動通信システムにおける周波数帯使用方法および基地局装置	特開平 10-23502	
	(4) ＣＤＭＡによるランダムアクセス通信方法及びそれを使った移動局装置	特再平 6-821056	Applied in United States, Germany, United Kingdom, Sweden
	(5) ＣＤＭＡ移動通信方法及びシステム	特再平 7-822213	Applied in United States, Germany, United Kingdom, Italy, Sweden, China
	(6) 送信電力制御法および前記送信電力制御法を用いた通信装置	特開平 8-32515	Applied in United States, Germany, United Kingdom, Italy, France, Sweden, Canada, China, Korea (South)
	(7) 信頼性のあるハンドオーバ方式を持つ移動通信システム	特表平 9-508773	Applied in United States, Germany, United Kingdom, Italy, Sweden, China

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. 〔Applied in Japan〕	REMARKS
NTT Mobile Communications Network, Inc.	(8) 可変レート伝送方法、および同方法を用いた送信装置および受信装置	特再平 8-826582	Applied in United States, Germany, United Kingdom, Italy, France, Sweden、 Canada, China, Korea (South)
	(9) ＤＳ－ＣＤＭＡ伝送方法	特開平 10-51354	Applied in United States, Germany, United Kingdom, Italy, France, Sweden, Canada, China, Korea (South)
	(10) 送信電力制御装置	特再平 9-850197	Applied in United States, Germany, United Kingdom, Italy, France, Sweden, Canada, China, Korea (South)
	(11) ＣＤＭＡ通信方法およびグループ拡散変調器	特開平 10-290211	Applied in United States, Germany, United Kingdom, Italy, France, Sweden, Canada, China, Korea (South)
	(12) ＣＤＭＡ移動通信システムにおける信号伝送方法および移動局または基地局用信号伝送装置	特開平 10-70772	Applied in United States, Germany, United Kingdom, Italy, France, Sweden, Canada, China, Korea (South)

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. 〔Applied in Japan〕	REMARKS
NTT Mobile Communications Network, Inc.	(13) ＣＤＭＡ移動通信システムにおけるハンドオーバ種別判定方法およびＣＤＭＡ移動通信システム	特開平 10-13907	Applied in United States, Germany, United Kingdom, Italy, France, Sweden, Canada, China, Korea (South)
	(14) 移動通信システムにおける下り送信電力制御方法および移動通信システム	特開平 10-112683	Applied in United States, Germany, United Kingdom, Italy, France, Sweden, Canada, China, Korea (South)
	(15) インターリービング方法	特願平 11-98160	
	(16) インターリービング方法、インターリービング装置、ターボ符号化方法及びターボ符号化装置	特願平 11-42137	

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. 〔Applied in Japan〕	REMARKS
Oki Electric Industry Co., Ltd.	(1) 出力電力制御方法及び出力電力システム (SATURATION PREVENTION SYSTEM FOR RADIO TELPHONE WITH OPEN AND CLOSE LOOP POWER CONTROL SYSTEMS)	出願番号 08-110634 公開番号 09-064814 (Application No. 08-110634 Publication No. 09-064814)	Applied in Korea (South), United States, Canada, United Kingdom
	(2) 符号分割多重アクセス通信用拡散符号発生器及びこれを用いた符号分割多重アクセス通信システム (SPREADING CODE GENERATOR AND CDMA COMMUNICATION SYSTEM)	出願番号 07-192062 公開番号 09-046317 (Application No. 07-192062 Publication No. 09-046317)	Applied in Korea (South), United States, European Patent Office
	(3) スペクトル拡散通信のための拡散符号生成装置 (SPREAD CPDE GENERATION DEVICE FOR SPREAD SPECTRUM COMMUICATION)	特許番号 2937743 公開番号 07-297754 (Patent No.2937743 Publication No. 07-297754)	Applied in United States
	(4) 符号分割多元接続装置 (CODE-DIVISION MULTIPLE-ACCESS EQUIPMENT)	出願番号 06-127933 公開番号 07-336323 (Application No. 06-127933 Publication No. 07-336323)	
	(5) 受信装置、基地局受信システム及び移動局受信システム (CODE-DIVISION MULTIPLE-ACCESS RECEIVER WITH SEQUENTIAL INTERFERENCE-CANCELLING ARCHITECTURE)	出願番号 07-000349 公開番号 07-303092 (Application No. 07-000349 Publication No. 07-303092)	Applied in Korea (South), United States, European Patent Office

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. 〔Applied in Japan〕	REMARKS
Oki Electric Industry Co., Ltd.	(6) CDMA 受信装置 (CDMA RECEIVER)	出願番号 08-183593 公開番号 10-028083 (Application No. 08-183593 Publication No. 10-028083)	Applied in Korea (South), United States
	(7) スペクトル拡散通信方式及びスペクトル拡散通信装置 (Spread Spectrum Communication System and Spread Spectrum Communication Equipment)	公開番号 08-288927 (Publication No. 08-288927)	

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. 〔Applied in Japan〕	REMARKS
CASIO Computer Co., Ltd.	(1) スペクトラム拡散通信システム	特開平 7-74725	Applied in United States, United Kingdom, Germany, France, Korea (South), China

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. 〔Applied in Japan〕	REMARKS
Canon Inc.	(1) スペクトラム拡散通信システム	特許第 2537517 号	

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. 〔Applied in Japan〕	REMARKS
Qualcomm Incorporated	(1) Spread Spectrum Multiple Access Communication System Using Satellite or Terrestrial Repeaters	261509/87	Applied in Other countries: United States Patent # 4,901,307, Australia, Austria, Belgium, Canada, European Patent Office, France, Germany, Greece, Israel, Italy, Luxembourg, Netherlands, Spain, Sweden, Switzerland, Ukraine
	(2) Reverse Link, Transmit Power Correction and Limitation in a Radiotelephone System	522410/95	Applied in Other countries: United States Patent #5,452,473, United States Patent # 5,590,408, United States Patent # 5,655,220, Argentina, Australia, Brazil, Canada, Chile, China, European Patent Office, Finland, India, Indonesia, Israel, Federation of Malaysia, Mexico, Russian Federation, South Africa, Korea (South), Taiwan, Vietnam
	(3) Temperature Compensated Automatic Gain Control	531982/96	Applied in Other countries: United States Application No. 08/426,551, Australia, China, European Patent Office, Finland, Mexico, Russian Federation, Vietnam

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. 〔Applied in Japan〕	REMARKS
Qualcomm Incorporated	(4) Method and System for Providing Communication Between Standard Terminal Equipment Using a Remote Communication Unit	514538/95	Applied in Other countries: United States Patent #5,479,475, US Patent # 5,761,204 (Div), Australia, Brazil, Canada, China, European Patent Office, Finland, Korea (South), Russian Federation
	(5) A Method of Invoking and Canceling Voice or Data Service from a Mobile Unit	514540/95	Applied in Other countries: United States Patent # 5,487,175, US Patent # 5,590,406 (Cont), Australia, Brazil, Canada, China, European Patent Office, Finland, Russian Federation, Vietnam
	(6) System and Method for Facsimile Data Transmission	514565/95	Applied in Other countries: United States Patent # 5,539,531, US Patent # 5,515,177 (Div), United States Patent # 5,566,000 (Div), United States Patent # 5,563,807 (Div), United States Patent No. 5,517,323, Australia, Brazil, Canada, China, European Patent Office, Finland, Russian Federation, Korea (South), Vietnam

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. 〔Applied in Japan〕	REMARKS
Qualcomm Incorporated	(7) Reverse Link, Closed Loop Power Control in a Code Division Multiple Access System	504464/96	Applied in Other countries: United States Patent #5,603,096, Australia, Brazil, Canada, Chile, China, European Patent Office, Finland, India, Indonesia, Israel, Federation of Malaysia, Mexico, Russian Federation, Singapore, South Africa, Korea (South), Taiwan, Vietnam
	(8) Method and Apparatus for Providing a Communication Link Quality Indication	520733/95 Patent No. 3014765	Applied in Other countries: United States Patent # 5,469,471, Australia, Brazil, Canada, Chile, China, European Patent Office, Finland, India, Indonesia, Israel, Federation of Malaysia, Mexico, Russian Federation, South Africa, Korea (South), Taiwan
	(9) Dynamic Sectorization in a Spread Spectrum Communication System	521400/95	Applied in Other countries: United States Application # 08/495,382, Australia, Brazil, Canada, Chile, China, European Patent Office, Finland, India, Indonesia, Mexico, Russian Federation, South Africa, Korea (South), Vietnam

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. 〔Applied in Japan〕	REMARKS
Qualcomm Incorporated	(10) Remote Transmitter Power Control in a Contention Based Multiple Access System	505753/96	Applied in Other countries: United States Patent # 5,604,730, Australia, Brazil, Canada, Chile, China, European Patent Office, Finland, India, Indonesia, Israel, Federation of Malaysia, Mexico, Russian Federation, Singapore, South Africa, Korea (South), Taiwan, Vietnam
	(11) Method and Apparatus for Determining Signal Strength in a Variable Data Rate System	519472/98	Applied in Other countries: United States Patent #5,703,902, Argentina, Australia, Chile, European Patent Office, Finland, India, Indonesia, Israel, Mexico, South Africa, Korea (South), Taiwan,
	(12) Method and Apparatus for Testing a Digital Communication Channel	519041/96	Applied in Other countries: United States Patent # 5,802,105, Antigua & Barbuda, Australia, Brazil, Canada, Chile, China, European Patent Office, Finland, India, Indonesia, Israel, Federation of Malaysia, Mexico, Russian Federation, Singapore, South Africa, Korea (South), Taiwan, Vietnam

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. 〔Applied in Japan〕	REMARKS
Qualcomm Incorporated	(13) Method and apparatus for Balancing the Forward Link Handoff Boundary to the reverse Link Handoff Boundary in a Cellular Communication System	505872/96	Applied in Other countries: United States Patent #5,548,812, Australia, Brazil, Canada, Chile, China, European Patent Office, Finland, India, Indonesia, Israel, Federation of Malaysia, Mexico, Russian Federation, Singapore, South Africa, Korea (South), Taiwan, Vietnam
	(14) Method for Providing Service and Rate Negotiation in a Mobile Communication System	502512/96	Applied in Other countries: United States Patent # 5,638,412, Australia, Brazil, Canada, Chile, China, European Patent Office, Finland, Israel, Federation of Malaysia, Russian Federation, Singapore, Korea (South), Taiwan, Vietnam
	(15) Method and Apparatus for Controlling Power in a Variable Rate Communication System	506501/96	Applied in Other countries: United States Patent # 5,822,318, Australia, Brazil, Canada, Chile, China, European Patent Office, Finland, India, Indonesia, Israel, Federation of Malaysia, Mexico, Russian Federation, Singapore, South Africa, Korea (South), Taiwan, Vietnam,

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
Qualcomm Incorporated	(16) Adaptive Sectorization in a Spread Spectrum Communication System	503342/95	Applied in Other countries: United States Patent # 5,621,752, Australia, Brazil, Canada, China, European Patent Office, Finland, Mexico, Russian Federation, Singapore, Korea (South), Vietnam
	(17) Method and Apparatus for Performing Search Acquisition in a CDMA Communication System	506511/96	Applied in Other countries: United States Patent # 5,644,591, Australia, Brazil, Canada, Chile, China, European Patent Office, Finland, India, Indonesia, Israel, Federation of Malaysia, Mexico, Russian Federation, Singapore, South Africa, Korea (South), Taiwan, Vietnam
	(18) Method and Apparatus for Providing Redundant Coverage within a Cellular Communication System	519040/96 Patent No. 3014767	Applied in Other countries: United States Patent #5,861,844, Argentina, Australia, Brazil, Canada, Chile, China, European Patent Office, India, Indonesia, Israel, Federation of Malaysia, Russian Federation, South Africa, Taiwan

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. 〔Applied in Japan〕	REMARKS
Qualcomm Incorporated	(19) Pilot Signal Searching Technique for a Cellular Communications System	517080/96	Applied in Other countries: United States Patent #5,577,022, Argentina, Australia, Brazil, Canada, Chile, China, European Patent Office, Finland, India, Indonesia, Israel, Federation of Malaysia, Mexico, New Zealand, Norway, Russian Federation, Singapore, South Africa, Korea (South), Taiwan, Ukraine, Vietnam
	(20) Apparatus and Method for Adding and Removing a Base Station from a Cellular Communication System	510315/96 Patent No. 2968590	Applied in Other countries: United States Patent # 5,475,870, United States Patent # 5,584,049 (Cont), Australia, Brazil, Canada, Chile, China, European Patent Office, Finland, India, Indonesia, Israel, Federation of Malaysia, Mexico, Russian Federation, Singapore, South Africa, Korea (South), Taiwan, Vietnam

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. 〔Applied in Japan〕	REMARKS
Qualcomm Incorporated	(21) Method and Apparatus for Providing Broadcast messages in a Communications Network	512005/96	Applied in Other countries: United States Application # 08/912,049, Australia, Brazil, Canada, Chile, China, European Patent Office, Finland, India, Indonesia, Israel, Federation of Malaysia, Mexico, Russian Federation, Singapore, South Africa, Korea (South), Taiwan, Vietnam
	(22) Method and Apparatus for Providing Variable Rate Data in a Communications System Using a Non-Orthogonal Overflow Channels	526373/96	Applied in Other countries: United States Patent # 5,777,990, Argentina, Canada, Chile, European Patent Office, India, Indonesia, Israel, Federation of Malaysia, Russian Federation, South Africa, Korea (South), Taiwan
	(23) Method of Searching for a Bursty Signal	533581/96	Applied in Other countries: United States Patent # 5,710,768, Argentina. Australia, Chile, European Patent Office, Finland, India, Indonesia, Israel, Federation of Malaysia, Mexico, South Africa, Korea (South), Taiwan, Vietnam

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. 〔Applied in Japan〕	REMARKS
Qualcomm Incorporated	(24) Random Access Communications Channel for Data Services	535004/96	Applied in Other countries: United States Patent # 5,673,259, Australia, Brazil, China, European Patent Office, Finland, Mexico, Russian Federation, Singapore, Korea (South), Vietnam
	(25) Method and apparatus for Performing Fast Forward Power Control in a Mobile Communication System	529674/96	Applied in Other countries: United States Application # 08/958,882, Argentina, Australia, Canada, Chile, China, European Patent Office, Indonesia, India, Israel, Federation of Malaysia, Russian Federation, South Africa, Korea (South), Taiwan
	(26) Method and Apparatus for Controlling Transmission Power in a CDMA Cellular Mobile Telephone System	515716/90 Patent No. 2776632	Applied in Other countries: United States Patent # 5,056,109, Australia, Brazil, Bulgaria, Canada, China, European Patent Office, Finland, Hungary, India, Israel, Federation of Malaysia, Mexico, Norway, Romania, Russian Federation, Singapore, South Africa, Korea (South), Taiwan, Ukraine

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. 〔Applied in Japan〕	REMARKS
Qualcomm Incorporated	(27) Method and System for Non-Orthogonal Noise Energy Based Gain Control	510466/97	Applied in Other countries: United States Patent # 5,754,533, Argentina, Chile, South Africa, Taiwan
	(28) Method and Apparatus for Controlling Transmission Power in a CDMA Mobile Telephone System	500251/93 Patent No. 3014757	Applied in Other countries: United States Patent # 5,265,119
	(29) Transmitter Power Control System	507203/93 Patent No. 2935896	Applied in Other countries: United States Patent # 5,267,262,
	(30) Soft Handoff in Communications in a CDMA Cellular Telephone System	501047/91	Applied in Other countries: United States Patent # 5,101,501, Australia, Brazil, Canada, European Patent Office, Finland, India, Israel, Federation of Malaysia, Mexico, Norway, Singapore, South Africa, Slovak Republic, Taiwan
	(31) Adaptive Despreader	507873/97	Applied in Other countries: United States Patent # 5,692,006, Argentina, Chile, Indonesia, Federation of Malaysia, South Africa, Taiwan

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. 〔Applied in Japan〕	REMARKS
Qualcomm Incorporated	(32) Method and System for Processing the Plurality of Multiple Access Transmissions	510464/97	Applied in Other countries: United States Application # 08/518,217, Argentina, Chile, South Africa, Taiwan
	(33) Method and Apparatus for Time Division Duplex Pilot	509386/97	Applied in Other countries: United States Patent # 5,680,395, Argentina, Chile, India, Indonesia, Israel, Federation of Malaysia, South Africa, Taiwan
	(34) Diversity Receiver in a CDMA Cellular Telephone System	500495/91	Applied in Other countries: United States Patent # 5,109,390, Australia, Canada, China, European Patent Office, Finland, India, Israel, Federation of Malaysia, Mexico, Norway, Korea (South)

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. 〔Applied in Japan〕	REMARKS
Qualcomm Incorporated	(35) System and Method for Generating Signal Waveforms in a CDMA Cellular Telephone System	514045/91 Patent No. 2958433	Applied in Other countries: United States Patent # 5,103,459, Argentina, Australia, Brazil, Canada, China, Czech Republic, Egypt, European Patent Office, Finland, Hungary, India, Israel, Federation of Malaysia, Mexico, Norway, Portugal, Romania, Russian Federation, Saudi Arabia, Singapore, Slovak Republic, South Africa, Korea (South), Taiwan, Vietnam

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. 〔Applied in Japan〕	REMARKS
Qualcomm Incorporated	(36) Method and Apparatus for the Formatting of Data for Transmission	512691/93	Applied in Other countries: United States Patent # 5,309,474 United States Patent # 5,416,797 (Cont), United States Patent # 5,504,773 (Cont), United States Patent No. 5,511,073 (Cont), United States Patent No. 5,535,239 (CIP), United States Patent No. 5,629,955 (Cont), United States Patent No. 5,659,569 (Cont), Argentina, Australia, Austria, Belgium, Brazil, Canada, Chile, China, Denmark, European Patent Office, Finland, France, Germany, Greece, Ireland, Israel, Italy, Luxembourg, Mexico, Monaco, Netherlands, Norway, Poland. Portugal, Russian Federation, Singapore, South Africa, Korea (South), Spain, Seychelles, Switzerland, Ukraine, Taiwan

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. 〔Applied in Japan〕	REMARKS
Qualcomm Incorporated	(37) Method and Apparatus for the Formatting of Data for Transmission	522385/96	Applied in Other countries: United States Patent # 5,568,483, Argentina, Australia, Brazil, Canada, Chile, China, Euratian Patent Convention, European Patent Office, Finland, Indonesia, Israel, Federation of Malaysia, Mexico, New Zealand, Singapore, South Africa, Korea (South), Taiwan, Vietnam
	(38) Direct Digital Synthesizer Driven Phase Lock Loop Frequency Synthesizer with Hard Handoff	503193/91	Applied in Other countries: United States Patent # 5,028,887, Australia, Austria, Belgium, Canada, Denmark, European Patent Office, France, Germany, Greece, Italy, Luxembourg, Niger, Korea (South), Spain, Sweden, Switzerland, Taiwan, Ukraine
	(39) Masking Frame Errors in a Variable Rate Vocoder	500902/93	Applied in Other countries: United States Patent 5,600,754, Australia, Brazil, Canada, China, European Patent Office, Finland, Hungary, Israel, Mexico, Norway, Poland, Russian Federation, Singapore, South Africa, Korea (South), Taiwan, United Kingdom

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. 〔Applied in Japan〕	REMARKS
Qualcomm Incorporated	(40) Linear Gain Control Amplifier	500744/92	Applied in Other countries: United States Patent # 5,099,204, Australia, Brazil, Canada, European Patent Office, Finland, Mexico, Norway, Korea (South), Taiwan
	(41) High Dynamic Range Closed Loop Automatic Gain Control Circuit	504281/92	Applied in Other countries: United States Patent # 5,107,225, Australia, Brazil, Bulgaria, Canada, European Patent Office, Finland, Hungary, Mexico, Norway, Romania, Russian Federation, Korea (South), Taiwan
	(42) CDMA Microcellular Telephone System and Distributed Antenna System Thereof	502863/92	Applied in Other countries: United States Patent # 5,280,472, Australia, Brazil, Bulgaria, Canada, Czech Republic, European Patent Office, Finland, Hungary, Israel, Mexico, Korea (North), Norway, Romania, Russian Federation, Slovak Republic, Korea (South), Taiwan

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. 〔Applied in Japan〕	REMARKS
Qualcomm Incorporated	(43) Method and System for the Arrangement of Vocoder Data for the Masking of Transmission Channel Induced Errors	513395/93	Applied in Other countries: United States Patent # 5,600,754, Australia, Brazil, Canada, China, European Patent Office, Finland, Israel, Mexico, Norway, Poland, South Africa, Korea (South), Taiwan
	(44) Apparatus and Method for Reducing Message Collision Between Mobile Stations Simultaneously Accessing a Base Station in a CDMA Cellular Communications System	515899/93	Applied in Other countries: United States Patent # 5,544,196, Australia, Brazil, Bulgaria, Canada, China, Czech Republic, European Patent Office, Finland, Hungary, Israel, Mexico, Korea (North), Norway, Romania, Russian Federation, Slovak Republic, South Africa, Korea (South)
	(45) Method and Apparatus for Determining Data Rate of Transmitted Variable Rate Data in a Communications Receiver	503020/95	Applied in Other countries: United States Patent # 5,566,206, Australia, Austria, Belgium, Brazil, Canada, China, Denmark, European Patent Office, Finland, France, Germany, Greece, Ireland, Israel, Italy, Luxembourg, Mexico, Monaco, Netherlands, Portugal, Russian Federation, Singapore, South Africa, Korea (South), Spain, Sweden, Switzerland, Ukraine, Vietnam

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. 〔Applied in Japan〕	REMARKS
Qualcomm Incorporated	(46) Method and System for the Dynamic Modification of Control Parameters in a Transmitter Power Control System	518995/94	Applied in Other countries: United States Patent # 5,396,516, Australia, Brazil, Canada, China, European Patent Office, Finland, Hungary, Indonesia, India, Israel, Federation of Malaysia, Mexico, Philippines, Poland, Russian Federation, Singapore, South Africa, Korea (South), Taiwan
	(47) Pilot Carrier Dot Product Circuit	513273/94	Applied in Other countries: United States Patent #5,506,865, Australia, Brazil, Canada, China, European Patent Office, Finland, India, Israel, Federation of Malaysia, Mexico, Russian Federation, Singapore, South Africa, Korea (South)
	(48) Noncoherent Receiver Employing a Dual-Maxma Metric Generation Process	502888/95 Patent No. 2788122	Applied in Other countries: United States Patent # 5,442,627, Australia, Brazil, Canada, China, European Patent Office, Finland, India, Israel, Federation of Malaysia, Mexico, Russian Federation, Singapore, South Africa, Korea (South), Taiwan

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. 〔Applied in Japan〕	REMARKS
Qualcomm Incorporated	(49) System and Method for Simulating User Interference in a Spread Spectrum Communication Network	505186/95	Applied in Other countries: United States Patent # 5,675,581, Australia, Brazil, Canada, Chile, China, European Patent Office, Finland, Indonesia, India, Israel, Federation of Malaysia, Mexico, Russian Federation, Singapore, South Africa, Korea (South), Taiwan, Vietnam
	(50) Vocoder ASIC	521936/95	Applied in Other countries: United States Patent # 5,784,532, Australia, Brazil, Canada, Chile, China, European Patent Office, Finland, Indonesia, India, Israel, Federation of Malaysia, Mexico, Russian Federation, Singapore, South Africa, Korea (South), Taiwan
	(51) Method and Apparatus for Performing Fast Hadamard Transform	517604/95	Applied in Other countries: United States Patent # 5,561,618, Australia, Brazil, Canada, Chile, China, European Patent Office, Finland, India, Israel, Federation of Malaysia, Mexico, Russian Federation, Singapore, South Africa, Slovak Republic, Taiwan, Vietnam

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. 〔Applied in Japan〕	REMARKS
Qualcomm Incorporated	(52) Cell Site Demodulator Architecture for a Spread Spectrum Multiple Access Communication System	521836/96	Applied in Other countries: United States Patent # 5,654,979, Argentina, Australia, Brazil, Canada, Chile, China, European Patent Office, Finland, Indonesia, India, Israel, Federation of Malaysia, Mexico, Russian Federation, Singapore, South Africa, Slovak Republic, Taiwan, Vietnam
	(53) Method and Apparatus for Determining the Transmission Data Rate in a Multi-User Communications System	508779/95	Applied in Other countries: United States Patent # 5,857,147, United States Application # 08/575,304 (Div), Australia, Brazil, Canada, Chile, China, European Patent Office, Finland, Indonesia, India, Israel, Federation of Malaysia, Mexico, Russian Federation, South Africa, Korea (South), Taiwan, Vietnam

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. 〔Applied in Japan〕	REMARKS
Qualcomm Incorporated	(54) Method and Apparatus for Bifurcating Signal Transmission Over In-Phase and Quadrature Phase Spread Spectrum Communication Channels	513320/95 Patent No. 2851706	Applied in Other countries: United States Patent # 5,414,728, Australia, Brazil, Canada, Chile, China, European Patent Office, Finland, India, Israel, Federation of Malaysia, Mexico, Russian Federation, South Africa, Korea (South), Taiwan, Vietnam
	(55) Multirate Serial Viterbi Decoder for CDMA System Applications	509949/95	Applied in Other countries: United States Patent # 5,710,784, Australia, Brazil, Canada, Chile, China, European Patent Office, Finland, Indonesia, Israel, Federation of Malaysia, Mexico, Russian Federation, South Africa, Korea (South), Vietnam
	(56) Method Search Processor for a Spread Spectrum Multiple Access Communication System	512006/96	Applied in Other countries: United States Application # 08/316,177, Australia, Brazil, Canada, Chile, China, European Patent Office, Finland, Indonesia, India, Israel, Federation of Malaysia, Mexico, Russian Federation, Singapore, South Africa, Korea (South), Taiwan, Vietnam

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. 〔Applied in Japan〕	REMARKS
Qualcomm Incorporated	(57) Mobile Demodulator Architecture for a Spread Spectrum Multiple Access Communication System	503916/97	Applied in Other countries: United States Patent # 5,764,592, Argentina, Chile, Indonesia, Israel, South Africa, Taiwan
	(58) Method and Apparatus for the Transmission of Variable Rate Digital Data	513306/95	Applied in Other countries: United States Patent # 5,581,575, Australia, Brazil, Canada, Chile, China, European Patent Office, India, Israel, Federation of Malaysia, Mexico, South Africa, Korea (South), Taiwan, Vietnam
	(59) Demodulation Element Assignment in a System Capable of Receiving Multiple Signals	512880/95 Patent No. 2938573	Applied in Other countries: United States Patent # 5,490,165, Australia, Brazil, Canada, Chile, European Patent Office, Finland, India, Israel, Federation of Malaysia, Mexico, Russian Federation, South Africa, Korea (South), Taiwan

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. 〔Applied in Japan〕	REMARKS
Qualcomm Incorporated	(60) Method and Apparatus for Performing Handoff Between Sectors of a Common Base Station	512881/95	Applied in Other countries: United States Patent # 5,625,876, Australia, Brazil, Canada, Chile, European Patent Office, Finland, India, Israel, Federation of Malaysia, Mexico, Russian Federation, South Africa, Korea (South), Taiwan
	(61) Method and Apparatus for Reducing the Average Downlink Transmitted Power from Base Stations During Soft Handoff	512883/95	Applied in Other countries: United States Patent # 5,864,760, Australia, Brazil, Canada, Chile, China, European Patent Office, Finland, India, Israel, Federation of Malaysia, Mexico, Russian Federation, Singapore, South Africa, Korea (South), Taiwan, Vietnam
	(62) Method and Apparatus for Variable Rate Signal Transmission in a Spread Spectrum Communication System Using Coset Coding	513361/94 Patent No. 2925742	Applied in Other countries: United States Patent # 5,471,497, Australia, Brazil, Canada, Chile, China, European Patent Office, Finland, India, Israel, Federation of Malaysia, Mexico, Russian Federation, South Africa, Korea (South), Taiwan, Vietnam

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. 〔Applied in Japan〕	REMARKS
Qualcomm Incorporated	(63) Fast Forward Link Power Control in a Code Division Multiple Access System	515247/95	Applied in Other countries: United States Patent #5, 383,219, United States Patent # 5,461,639 (Cont)

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. 〔Applied in Japan〕	REMARKS
KOKUSAI ELECTRIC CO., LTD.	(1) ＣＤＭＡ受信回路	特願平 8-210315	
	(2) 処理利得可変型ＣＤＭＡ通信方式及び送受信機	特願平 9-58599	
	(3) ＤＳ－ＣＤＭＡ方式移動局のハンドオフ方式及びハンドオフ装置	特願平 9-215239	
	(4) 初期同期捕捉方法及び初期同期捕捉回路	特願平 9-280956	
	(5) セクタアンテナ装置	特願平 10-338241	
	(6) スペクトラム拡散通信用相関回路	特願平 10-371463	Applied in United States
	(7) ＣＤＭＡ基地局装置	特願平 11-204331	

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. 〔Applied in Japan〕	REMARKS
KDD Corporation / Hitachi, Ltd.	(1) CDMA 多重化技術を用いた移動通信方法及び無線基地局	特願平 11-344930	
	(2) 符号分割多元接続通信システムにおける送信電力制御方法	特願平 11-058917	
	(3) 無線通信システム、基地局制御局、基地局及び送信電力制御方法	特願 2000-027547	
	(4) セル半径の制御方法	特願平 11-75756	
	(5) 符号分割多元接続通信システムにおける送信電力制御方法	特願平 10-362871	
KDD Corporation	(1) セルラーシステム送信電力制御方法	特願平 11-53896	
	(2) CDMA 移動通信システムにおける符号割当方法	特願平 11-185543	
	(3) アダプティブアレイアンテナ制御方式	特許 2684888	

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. 〔Applied in Japan〕	REMARKS
SHARP CORPORATION	(1) 並列スペクトラム拡散通信方式	特願平 7 - 68372 特開平 8 - 265215	
	(2) セルラー電話システムの受信装置	特願平 8 - 295581 特開平 10 - 145334	

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. 〔Applied in Japan〕	REMARKS
Sony Corporation	(1) スペクトラム拡散通信方式の受信装置	特許第 01624765	
	(2) スペクトラム拡散信号受信装置の復調装置	特許第 01864986	
	(3) 符号多重受信装置	特開平 09-027796	

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. 〔Applied in Japan〕	REMARKS
TOSHIBA CORPORATION	(1) ディジタル通信システムとその送信装置及び受信装置、ならびにフレーム同期検出回路 (digital communication system and transmitting apparatus in the digital communication system and receiving apparatus in the digital communication system and frame synchronization detecting apparatus)	特許登録第 2955576 号 (REGISTRATION NO.2955576)	Applied in United States, European Patent Office (Germany, France, United Kingdom)
	(2) 符号分割多元接続方式を採用した移動通信システムとその無線通信装置 (mobile communication system using a method of code division multiple access and radio communication apparatus in the mobile communication system)	特願平 8-158385 (APPLICANTION NO.H08-158385)	Applied in United States, Korea (South)
	(3) 音声符号化装置 (speech coding apparatus)	特許登録第 2898641 号 (REGISTRATION NO.2898641)	
	(4) 音声符号化方式 (speech coding method)	特願平 1-268050 (APPLICANTION NO.H01-268050)	Applied in United States, Canada, European Patent Office (United Kingdom, Germany, France, Italy)
	(5) 音声符号化装置および音声復号化装置 (speech encoding apparatus and speech decoding apparatus)	特願平 6-66209 (APPLICANTION NO.H06-66209)	

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. 〔Applied in Japan〕	REMARKS
TOSHIBA CORPORATION	(6) 音声符号化方式 (speech coding method) (7) 音声符号化装置 (speech coding apparatus)	特願平 1-103398 (APPLICANTION NO.H01-103398) 特願平 1-316445 (APPLICANTION NO.H01-316445)	Applied in United States, European Patent Office (United Kingdom, Germany, France)

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. 〔Applied in Japan〕	REMARKS
Telefonaktiebolaget LM Ericsson	(1) セル方式デイジタル移動無線システムと該システムにおける情報の送信方法 (Cellular mobile system with plural base station transmitters and method of transmitting information in such a system)	特許第 2735335 号 (JP-2735335)	Applied in Australia, Switzerland, Germany, Denmark, Spain, Finland, France, United Kingdom, Italy, Netherlands, Norway, New Zealand, Sweden, United States, WIPO
	(2) 線形予測音声符号器における音源パルスの位置決め方法 (Excitation pulse positioning method in a linear predictive speech coder)	特表平 03-506079 (JP-03506079)	Applied in Austria, Australia, Belgium, Brazil, Canada, Switzerland, China, Germany, Denmark, Spain, Finland, France, United Kingdom, Greece, Hong Kong, Ireland, Italy, Korea (South), Luxembourg, Mexico, Federation of Malaysia, Netherlands, Norway, New Zealand, Philippines, Portugal, Sweden, Singapore, Turkey, Taiwan, United States, WIPO
Ericsson GE mobile communications Inc.	(3) 移動電話システム内呼処理に対する航法援助 (Navigation assistance for call handling in mobile telephone systems)	特表平 09-504414 (JP-09504414)	Applied in Australia, Mexico, New Zealand, Taiwan, United States, WIPO
Ericsson Inc.	(4) 電力制御および移動体支援切替測定を使用するチャネル配分方法およびシステム (Method and system for channel allocation using power control and mobile assisted handover measurements)	特表平 09-500778 (JP-09500778)	Applied in Australia, Singapore, United States, WIPO

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. 〔Applied in Japan〕	REMARKS
Telefonaktiebolaget LM Ericsson	(5) DS-CDMA システムにおけるシームレス・ハンドオーバーのための不連続送信 (Non-continuous transmission for seamless handover in DS-CDMA systems)	特表平 08-500475 (JP-08500475)	Applied in Australia, Mexico, New Zealand, Taiwan, United States, WIPO
Ericsson GE mobile communications Inc.	(6) TDMA/FDMA/CDMA ハイブリッド無線アクセス方式 (TDMA/FDMA/CDMA hybrid radio access methods)	特表平 09-500512 (JP-09500512)	Applied in Austria, Australia, Belgium, Switzerland, Germany, Denmark, Egypt, Spain, France, United Kingdom, Greece, Ireland, Italy, Luxembourg, Mexico, Netherlands, Portugal, Sweden, United States, South Africa, WIPO
Telefonaktiebolaget LM Ericsson	(7) CDMA を用いる移動局支援切換え (Mobile assisted handover using CDMA)	特表平 06-511609 (JP-06511609)	Applied in Australia, Germany, France, United Kingdom, Netherlands, New Zealand, Sweden, Taiwan, WIPO
	(8) 回路エミュレートされたATMスイツチにおけるSTMセルをスイツチングする方法及びスイツチ・ノード (Method and switch node for switching STM cells in a circuit emulated ATM switch)	特表平 10-506242 (JP-10506242)	Applied in Sweden, Taiwan, WIPO
	(9) マイクロセルを転送する電気通信システムおよび方法 (A telecommunication system and a method for transferring microcells therein)	特表平 11-509997 (JP-11509997)	Applied in Sweden, WIPO

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. 〔Applied in Japan〕	REMARKS
NEC Corporation	(1) 線形予測係数抽出回路	特許第 1715101 号	
	(2) 音声符号化装置	特許第 1740692 号	Applied in United States, Canada
	(3) 音声符号化・復号化装置	特許第 1740693 号	Applied in United States, Canada
	(4) 音声符号化装置	特許第 1740694 号	Applied in United States, Canada
	(5) 音声符号化方法及びその装置並びに音声符号化復号化装置	特許第 1790895 号	
	(6) 音声符号化方法とその装置	特許第 1903416 号	
	(7) 画像信号の動き補償フレーム間符号化・復号化方法とその装置	特許第 1890887 号	
	(8) 移動体スペクトル拡散通信方式	特許第 1801744 号	
	(9) ＦＤＤ／ＣＤＭＡ送受信システム	特許第 2785812 号	Applied in United States, Germany, Sweden
	(10) 無線データ通信装置	特許第 2734955 号	Applied in United States

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. 〔Applied in Japan〕	REMARKS
NEC Corporation	(11) ハンドオフ方法	特許第 2841900 号	Applied in United States, United Kingdom, Germany, France
	(12) 画像信号の予測符号化装置	特許第 1683612 号	Applied in United States, Canada
	(13) スペクトラム拡散通信方式	特許第 2894340 号	Applied in United States, Brazil, China, Korea (South), United Kingdom, Germany
NEC Corporation and NEC Home Electronics Ltd.	(1) 画像の圧縮記録システム	特許第 2036887 号	Applied in United States, Canada, Germany, France, United Kingdom, Netherlands
	(2) 圧縮記録画像の再生方式	特許第 2119938 号	Applied in United States, Canada, Germany, France, United Kingdom, Netherlands
	(3) 圧縮記録画像の対話型再生方式	特許第 2134585 号	Applied in United States, Canada, Germany, France, United Kingdom, Netherlands
	(4) 動画符号化方式	特許第 2134913 号	Applied in United States, Canada, Germany, France, United Kingdom, Netherlands

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. 〔Applied in Japan〕	REMARKS
Nippon Telegraph and Telephone Corporation	(1) スペクトラム拡散無線通信方式 (Spread spectrum radio communication system (tentative name))	特願平 5-145398	
	(2) スペクトラム拡散無線通信方式 (Spread spectrum radio communication system (tentative name))	特願平 6-35374	
	(3) スペクトラム拡散無線通信方式 (Spread spectrum radio communication system (tentative name))	特願平 6-35375	
	(4) スペクトラム拡散無線通信方式 (Spread spectrum radio communication system (tentative name))	特願平 6-35376	
	(5) 移動通信方式 (Mobile communication system (tentative name))	特願平 7-20824	
	(6) 符号分割多重アクセス方法および装置 (Code division multiple access method and equipment (tentative name))	特願平 8-232196	
	(7) 音声の励振信号符号化復号化方法 (Encoding and decoding method of speech excitation signals)	2613503	

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. 〔Applied in Japan〕	REMARKS
Nippon Telegraph and Telephone Corporation	(8) 音声符号化法と装置 (Speech coding method and apparatus for the same)	特願平 4-170895 2853824	Applied in United States 5787391 Germany (European Patent Office) 0577488 FR (European Patent Office) 0577488 United Kingdom (European Patent Office) 0577488 Italy (European Patent Office) 0577488 United Kingdom (European Patent Office, Division) Appl.96202584.7 (9/99 granted) Germany (European Patent Office, Division) Appl.96202584.7 (9/99 granted) France (European Patent Office, Division) Appl.96202584.7 (9/99 granted) Italy (European Patent Office, Division) Appl.96202584.7 (9/99 granted)

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. 〔Applied in Japan〕	REMARKS
Hitachi, Ltd./ Hitachi Telecom Technologies, Ltd.	(1) 通信装置 (Telecommunication system for spread spectrum communication)	特許第 2644723 号 (Reg. No.2644723)	
	(2) 無線基地局 (Radio base station for spread spectrum communication)	特許第 2908275 号 (Reg. No.2908275)	
	(3) 交換装置 (Switching system for spread spectrum communication)	特開平 10-191410 号 (Pub. No.Hei10-191410)	
	(4) 端末装置 (Mobile radio terminal for spread spectrum communication)	特開平 10-173591 号 (Pub. No.Hei10-173591)	
	(5) 無線基地局 (Radio base station for spread spectrum communication)	特開平 10-215478 号 (Pub. No.Hei10-215478)	
	(6) 端末装置 (Mobile radio terminal for spread spectrum communication)	特開平 10-262027 号 (Pub. No.Hei10-262027)	
	(7) 通信装置 (Telecommunication system for spread spectrum communication)	特開平 11-091261 号 (Pub. No.Hei11-091261)	
Hitachi, Ltd.	(1) スペクトル拡散通信システムおよび送信電力制御方法 (Spread spectrum communication system and transmission power control method therefor)	特開平 07-038496 号 (Pub. No.Hei07-038496)	

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. 〔Applied in Japan〕	REMARKS
Hitachi, Ltd.	(2) 送信電力制御方法、移動端末装置及び基地局 (Transmission power control method, mobile terminal and base station)	特開 2000-004198 号 (Pub. No.2000-004198)	
	(3) 移動通信システムおよび移動端末装置 (Mobile communication system and mobile terminal)	特開平 09-055693 号 (Pub. No.Hei09-055693)	
	(4) 移動通信システムおよび移動端末装置 (Mobile communication system and mobile terminal)	特願平 11-223429 号 (App. No.Hei11-223429)	
	(5) CDMA 通信システムおよび通信方法 (CDMA communication system and method)	特開平 10-22874 号 (Pub. No.Hei10-022874)	
	(6) 移動通信方法及びその実施装置 (Method of mobile communication and apparatus therefor)	特開平 10-051377 号 (Pub. No.Hei10-051377)	
	(7) 符号分割多元接続通信システム及び送信電力制御方法 (CDMA communication system and its transmission power control method)	特開平 10-173594 号 (Pub. No.Hei10-173594)	
	(8) 符号分割多元接続通信システム及び送信電力制御方法 (CDMA communication system and its transmission power control method)	特願平 11-233450 号 (App. No.Hei11-233450)	

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. 〔Applied in Japan〕	REMARKS
Hitachi, Ltd.	(9) ソフトハンドオーバー実行時の送信電力制御方法及びその実施装置 (Transmission power control during soft-handover and apparatus therefor)	特開平 11-308655 号 (Pub. No.Hei11-308655)	
	(10) 符号分割接続方式移動通信システム及び該システムで用いるスロットタイミング同定方法と移動端末 (CDMA mobile communication system and decision method of slot timing therefor)	特開平 11-331036 号 (Pub. No.Hei11-331036)	
	(11) 符号分割接続方式移動通信システム及び該システムで用いるスロットタイミング同定方法と移動端末 (CDMA mobile communication system and decision method of slot timing therefor)	特願平 11-188371 号 (App. No.Hei11-188371)	
	(12) 移動体通信ハンドオフ方式 (Handoff method for CDMA mobile communication system)	特願平 11-355461 号 (App. No.Hei11-355461)	
Hitachi, Ltd./ KDD Corp.	(1) ＣＤＭＡ多重化技術を用いた移動通信方式及び無線基地局 (CDMA mobile communication system and base station therefor)	特願平 11-344930 号 (App. No.Hei11-344930)	
	(2) 符号分割多元接続通信システムにおける送信電力制御方法 (Transmission power control method for a CDMA communication system)	特願平 11-058917 号 (App. No.Hei11-058917)	

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. 〔Applied in Japan〕	REMARKS
Hitachi, Ltd./ KDD Corp.	(3) セル半径の制御方法 (Control method of cell radius in CDMA communication system) (4) 無線通信システム、基地局制御局、基地局及び送信電力制御方法 (CDMA mobile communication system, base station controller and base station, and transmission power control method for therefor)	特願平 11-075756 号 (App. No.Hei11-075756) 特願 2000-027547 号 (App. No.2000-027547)	

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. 〔Applied in Japan〕	REMARKS
Fujitsu Limited	(1) ＣＤＭＡ通信システム及び移動局及び通信制御方法 (CDMA Communication System, Mobile Station and Communication Control Method)	特願平 8-275753 (Japanese Application No. TOKUGANHEI 8-275753)	
	(2) サイトダイバーシチシステム及び基地局及び移動局及び通信制御方法 (Site Diversity System, Base Station, Mobile Station and Communication Control Method)	特願平 8-269642 (Japanese Application No. TOKUGANHEI 8-269642)	
	(3) 移動通信システム及びその装置 (Mobile Communication System and Mobile Communication Apparatus)	特願平 8-276724 (Japanese Application No. TOKUGANHEI 8-276724)	
	(4) 移動通信システム及びその装置 (Mobile Communication System and Mobile Communication Apparatus)	特願平 8-276725 (Japanese Application No. TOKUGANHEI 8-276725)	
	(5) 誤り訂正符号化装置 (Error-Correcting Encoding Apparatus)	特願平 10-232580 (Japanese Application No. TOKUGANHEI 10-232580)	Applied in United States, United Kingdom, Germany, France, China
	(6) 直接拡散スペクトル拡散通信方式 (Direct Sequence Spread Spectrum Communication System)	特願平 5-233059 (Japanese Application No. TOKUGANHEI 5-233059)	

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. 〔Applied in Japan〕	REMARKS
Fujitsu Limited	(7) スペクトラム拡散通信方式 (Spread Spectrum Communication Method)	特願平 8-139268 (Japanese Application No. TOKUGANHEI 8-139268)	Applied in United States, United Kingdom
	(8) 符号多重送信装置 (Code Multiplexing Transmitting Apparatus)	特願平 8-341086 (Japanese Application No. TOKUGANHEI 8-341086)	Applied in United States, China, Korea (South)
	(9) インタリーブ方法及びデインタリーブ方法並びにインタリーブ装置及びデインタリーブ装置並びにインタリーブ／デインタリーブシステム並びにインタリーブ／デインタリーブ装置 (Interleaving Method and Apparatus, De-Interleaving Method and Apparatus, and Interleaving/ De-Interleaving System and Apparatus)	特願平 10-311512 (Japanese Application No. TOKUGANHEI 10-311512)	Applied in United States, United Kingdom, Germany, France
	(10) 移動通信端末 (Mobile Communication Terminal Capable of Executing Location-Related Services)	特願平 9-172193 (Japanese Application No. TOKUGANHEI 9-172193)	Applied in United States
	(11) 初期送信電力の決定方法 (Method of Determining Initial Transmission Power)	特願平 5-256382 (Japanese Application No. TOKUGANHEI 5-256382)	Applied in United States

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. 〔Applied in Japan〕	REMARKS
Fujitsu Limited	(12) ＣＤＭＡのソフトハンドオフ制御方法 (CDMA Soft Handoff Control Method)	特願平 10-10376 (Japanese Application No. TOKUGANHEI 10-10376)	Applied in United States, China, Korea (South)
	(13) ＣＤＭＡ移動通信におけるハンドオーバ方法並びにその基地局及び移動局 (Handover Method in CDMA Mobile Communication, Base Station and Mobile Station)	特願平 10-232934 (Japanese Application No. TOKUGANHEI 10-232934)	Applied in United States, United Kingdom, Germany, France
	(14) 移動通信端末及びその送信電力制御方式 (Mobile Communication Terminal and Transmission Power Control Method Therefor)	特願平 8-233203 (Japanese Application No. TOKUGANHEI 8-233203)	Applied in United States, China
	(15) 符号分割多重通信における送信装置、受信装置及びその方法 (Code-Division Multiplex Communication Transmitting Apparatus and Receiving Apparatus and Method Thereof)	特願平 11-47515 (Japanese Application No. TOKUGANHEI 11-47515)	Applied in United States, United Kingdom
	(16) セルラ移動通信網における干渉除去方法 (Interference Canceling Method in Cellular Mobile Communication Network)	PCT 出願番号 GB99/01344 (PCT Application No. GB99/01344)	Applied in United States, United Kingdom, Germany, France, China, Korea (South)
	(17) 拡散通信システムとその移動機 (Spread Communication System and Mobile Station Thereof)	特願平 11-2128 (Japanese Application No. TOKUGANHEI 11-2128)	Applied in United States, United Kingdom, Germany, France

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. 〔Applied in Japan〕	REMARKS
Fujitsu Limited	(18) スペクトラム拡散通信システム及び該システムを構成する送信機及び受信機 (Spread Spectrum Communication System, Transmitting Apparatus and Receiving Apparatus Thereof)	特願平 11-12435 (Japanese Application No. TOKUGANHEI 11-12435)	
	(19) 無線端末装置 (Wireless Terminal Apparatus)	特願平 11-124398 (Japanese Application No. TOKUGANHEI 11-124398)	Applied in United States, United Kingdom, Germany, France
	(20) 送信電力制御装置 (Transmission Power Controlling Apparatus)	PCT 出願番号 JP99/05183 (PCT Application No. JP99/05183)	Applied in United States, United Kingdom, Germany, France
	(21) ディジタルデータ通信アダプタ装置 (Adapting Apparatus for Digital Data Communication)	特願平 6-37344 (Japanese Application No. TOKUGANHEI 6-37344)	

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. 〔Applied in Japan〕	REMARKS
Matsushita Electric Industrial Co., Ltd.	(1) ＣＤＭＡ無線多重送信装置およびＣＤＭＡ無線多重伝送装置	登録 2863993	Applied in United States
	(2) ＣＤＭＡセルラ無線伝送装置	登録 2934185	Applied in United States, United Kingdom, Germany, France, Sweden, Finland, China, Korea (South), India
	(3) 移動通信装置	登録 2942977	Applied in United States, Canada, China, Korea (South), India
	(4) 自動車・携帯電話システム	特開平 07-038963	Applied in United States, Canada, China, Korea (South), India
	(5) 自動車・携帯電話システム	特開平 07-038964	Applied in United States, Canada, China, Korea (South), India
	(6) データ通信システム	特開平 07-231479	Applied in United States, United Kingdom, Germany, France

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. 〔Applied in Japan〕	REMARKS
Matsushita Electric Industrial Co., Ltd.	(7) スペクトル拡散通信装置	特開平 09-261162	Applied in United States, United Kingdom, Germany, France, Italy, Spain, Canada, China, Korea (South), Australia
	(8) 画像・音声電送装置及びその方法	特開平 11-239330	
	(9) 無線通信装置及び無線通信方法	特開平 11-331071	Applied in United States, United Kingdom, Germany, France, Italy, Netherlands, Spain, Canada, China, Korea (South), India, Federation of Malaysia, Singapore
	(10) 無線伝送システムおよびその送信電力制御方法	特願平 10-263416	Applied in United States, United Kingdom, Germany, France, Italy, Sweden, Spain, China, Korea (South), Brazil
	(11) 無線通信装置及び無線通信システム	特開 2000-049663	Applied in United States, United Kingdom, Germany, France, Italy, Netherlands, Spain, Finland, Canada, China, Korea (South), Brazil

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. 〔Applied in Japan〕	REMARKS
Mitsubishi Electric Corporation	(1) 符号割当装置並びにその方法 (A method and apparatus for assigning codes)	特 2878265 (Registration No.2878265)	Applied in United States, United Kingdom, France, Germany
	(2) 移動体通信システム (Mobile communication system)	公開番号：特開平 10-136424 (Laid-open No.Hei-10-136424)	

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. 〔Applied in Japan〕	REMARKS
Motorola, Inc	(1) 改良されたロングターム予測器を有するデジタル音声コーダ (Digital Speech Coder Having improved Sub-Sample Resolution long-term Predictor)	特表平 4-502675 号 (Japanese translations of PCT No.4-502675)	Applied in United States (USP5,359,696), Australia, Canada, China, Mexico, EPC, Singapore
	(2) セルラー電話システム (Packet-switched cellular telephone system)	特公平 7-105975 号 特許第 2079947 号 (Japanese Publication No. 7-105975 JP 2079947)	Applied in United States (USP4,887,265), Austria, Belgium, Canada, Finland, France, England, Germany, Greece, Italy, Netherlands, Sweden, Switzerland
	(3) 広通達範囲を有する二方向個人用通報装置 (Two way personal message system with extended coverage)	特公平 4-73813 号 特許第 1782034 号 (Japanese Publication No. 4-73813 JP 1782034)	Applied in United States (USP4,644,351), Austria, Belgium, Canada, France, England, Germany, Greece, Italy, Luxembourg, Netherlands, Spain, Sweden, Switzerland
	(4) 全国的な移動可能な能力を有する中継通信システム (Trunked communication system with nation-wide roaming capability)	特表平 3-503346 号 特許第 2757515 号 (Japanese translations of PCT No.3-503346 JP 2757515)	Applied in United States (USP4,833,701), Australia, Austria, Brazil, China, France, England, Germany, India, Korea (South), Luxembourg, Switzerland, Hong Kong

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. 〔Applied in Japan〕	REMARKS
Motorola, Inc	(5) 無線電話用加入者ユニットおよび該ユニットのためのシステムアクセス方法 (Selective system scan for multizone radiotelephone subscriber units)	特公平 6-103852 号 特許第 2133811 号 (Japanese Publication No. 6-103852 JP 2133811)	Applied in United States (USP4,905,301), Austria, Belgium, Canada, France, England, Germany, Greece, Hong Kong, Ireland, Italy, Mexico, Netherlands, Singapore, Spain, Sweden
	(6) 拡散スペクトル通信システムにおけるコヒーレント通信受信方法および装置 (Method and apparatus for coherent reception in a spread-spectrum communication system)	特表平 9-507014 号 (Japanese translations of PCT No.9-507014)	Applied in United States (USP5,659,573), Brazil, Canada, China, EPC, Finland, India, Israel, Korea (South), Poland, Russia
	(7) 回路を共用する２つの無線電話を具備する無線電話装置 (Radio arrangement having two radios sharing circuitry)	特公平 6-71230 号 特許第 1941842 号 (Japanese Publication No. 6-71230 JP 1941842)	Applied in United States (USP5,029,233), Australia, Austria, Belgium, Canada, France, England, Germany, Greece, Hong Kong, Italy, Korea (South), Luxembourg, Netherlands, Norway, Singapore, Spain, Sweden, Switzerland, Denmark, Finland
	(8) スペクトル拡散チャネル装置および通信方法 (Method and apparatus for providing high data rate traffic channels in a spread spectrum communication system)	特表平 5-506763 号 特許第 2632596 号 (Japanese translations of PCT No.5-506763 JP 2632596)	Applied in United States (USP5,204,876), Israel, Korea (South), Canada, EPC

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. 〔Applied in Japan〕	REMARKS
Motorola, Inc	(9) 通信システム内でパケット整合を行う方法および装置 (Method and apparatus for packet alignment in a communication system)	特表平 9-504935 号 (Japanese translations of PCT No.9-504935)	Applied in United States (USP5,586,119)
	(10) 拡散スペクトル通信システムにおける通信チャネル数を調整する装置および方法 (Channels in a Spread Spectrum Communications System)	特許第 2601030 号 (JP 2601030)	Applied in United States (USP5,235,614)
	(11) 擬似ランダム信号の保護方法 (Method of protecting an LFSR output signal)	特許第 2848036 号 (JP 2848036)	Applied in United States (USP5,060,265)
	(12) 電気通信システムにおける加入者の真正証明及び保護のための方法 (M&A for authentication and protection of subscribers in telecommunication systems)	特許第 2750638 号 (JP 2750638)	Applied in United States (USP5,239,294)
	(13) 雑音抑圧システム (Noise Suppression System)	特許第 2714656 号 (JP 2714656)	Applied in United States (USP4,628,529)
	(14) 改良されたノイズ抑圧システム (Noise Suppression System)	特許第 2995737 号 (JP 2995737)	Applied in United States (USP4,811,404)
	(15) 通信システムにおいて雑音を抑圧する方法および装置 (M&A for suppressing noise in a communication system)	特表平 10-513030 号 (Japanese translations of PCT No.10-513030)	Applied in United States (USP5,659,622)

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. 〔Applied in Japan〕	REMARKS
Motorola, Inc	(16) ソフト・ハンドオフのためのシステム、方法および装置 (System, method, and apparatus for soft handoff)	特開平 10-136428 号 (Japanese Laid-open No.10-136428)	Applied in United States (USP5,920,550)
	(17) 広帯域通信システム内におけるデータ送信のための方法および装置 (M&A for data transmission within a broadband communications system)	特願 2000-503635 (JPN Patent Application No. 2000-503635)	Applied in United States (USP5,964,356)

Reference

This is the list of Essential Industrial Property Rights (IPRs) filed or applied to countries other than Japan. These are listed here as a reference, as the companies voluntarily informed ARIB of these IPRs.

(Reference : Not applied in Japan)

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO.	REMARKS
Oki Electric Industry Co., Ltd.	(1) SATURATION PREVENTION SYSTEM FOR RADIO TELPHONE WITH OPEN AND CLOSE LOOP POWER CONTROL SYSTEMS	Application No. 96-14312 Publication No. 96-43618	Applied in Korea (South)
	(2) SATURATION PREVENTION SYSTEM FOR RADIO TELPHONE WITH OPEN AND CLOSE LOOP POWER CONTROL SYSTEMS	Application No. 434,650 Patent No. 5,689,815	Applied in United States
	(3) SATURATION PREVENTION SYSTEM FOR RADIO TELPHONE WITH OPEN AND CLOSE LOOP POWER CONTROL SYSTEMS	Application No. 2,175,749 Patent No. 2,175,749	Applied in Canada
	(4) SATURATION PREVENTION SYSTEM FOR RADIO TELPHONE WITH OPEN AND CLOSE LOOP POWER CONTROL SYSTEMS	Application No. 9609267.1 Publication No. 2 300 542 A	Applied in United Kingdom
	(5) SPREADING CODE GENERATOR AND CDMA COMMUNICATION SYSTEM	Application No. 96-30635 Publication No. 97-8940	Applied in Korea (South)
	(6) SPREADING CODE GENERATOR AND CDMA COMMUNICATION SYSTEM	Application No. 679,925	Applied in United States
	(7) SPREADING CODE GENERATOR AND CDMA COMMUNICATION SYSTEM	Application No. 96111548.2 Publication No. 756395	Applied in European Patent Office

(Reference : Not applied in Japan)

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO.	REMARKS
Oki Electric Industry Co., Ltd.	(8) SPREAD CPDE GENERATION DEVICE FOR SPREAD SPECTRUM COMMUICATION	Application No. 426,254 Patent No. 5,631,922	Applied in United States
	(9) CODE-DIVISION MULTIPLE-ACCESS RECEIVER WITH SEQUENTIAL INTERFERENCE-CANCELLING ARCHITECTURE	Application No. 95-2360	Applied in Korea (South)
	(10) CODE-DIVISION MULTIPLE-ACCESS RECEIVER WITH SEQUENTIAL INTERFERENCE-CANCELLING ARCHITECTURE	Application No. 397,676 Patent No. 5,579,304	Applied in United States
	(11) CODE-DIVISION MULTIPLE-ACCESS RECEIVER WITH SEQUENTIAL INTERFERENCE-CANCELLING ARCHITECTURE	Application No. 95103484.2 Publication No. 676874A2	Applied in European Patent Office
	(12) CDMA RECEIVER WITH WEIGHTED INTERFERENCE CANSELLATION	Application No. 97-31736	Applied in Korea (South)
	(13) CDMA RECEIVER WITH WEIGHTED INTERFERENCE CANSELLATION	Application No. 883,959	Applied in United States

(Reference : Not applied in Japan**)**

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO.	REMARKS
KDD Corporation	(1) Adaptive array antenna system	USP 5218359	Applied in United States

(Reference : Not applied in Japan**)**

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO.	REMARKS
SAMSUNG Electronics Co., Ltd	(1) Device and Method for Providing Time Switched TransmissionDiversity in Mobile Communication System	P19980005526	Applied in Korea (South)
	(2) Turbo Encoding/Decoding Device and Method for ProcessingFrame Data According to QOS	P19980011380	Applied in Korea (South)

(Reference : Not applied in Japan)

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO.	REMARKS
Siemens AG	(1) Method and arrangement for joint channel estimation in a digital multiple access communication system	4 212 300	Applied in Germany
	(2) Method and arrangement for transmitting information in a digital radio system	5,648,967	Applied in United States
	(3) Data transmission method for mobile communications system - inserting administration data in dedicated transmission channel, and transmitting channel with power which is increased in comparison with respective transmitting powers for connections with usage data.	19747453	Applied in Germany ** pending IPRs in other countries
	(4) Synchronising subscriber station in radio communication system - performing time synchronisation based on receiving time of synchronisation sequence, synchronisation sequence indicating time offset and/or succession of several sequences.	19840232	Applied in Germany ** pending IPRs in other countries

(Reference : Not applied in Japan**)**

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO.	REMARKS
SHARP CORPORATION	(1) System and Method for CDMA Channel Estimation	PCT/JP 99/00327	Applied in United States, United Kingdom, France, Germany, Korea (South)

(Reference : Not applied in Japan)

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO.	REMARKS
Telefonaktiebolaget LM Ericsson	(1) Handover method for mobile radio system	US-36078	
	(2) Handover method for mobile radio system	US-36079	Applied in Germany, Spain, France, United Kingdom, Hong Kong, Italy, Netherlands, Norway, Sweden, Singapore, United States
	(3) Method of transmitting signaling messages in a mobile radio communication system	US-5182753	
	(4) Minicell sequence number count	WO-9748250	Applied in Taiwan, United States, WIPO
	(5) Multiplexing of voice and data minicells	WO-9748251	Applied in Taiwan, United States, WIPO
	(6) Minicell decoupling	WO-9744907	Applied in Taiwan, United States, WIPO
	(7) Minicell segmentation and reassembly	WO-9738550	Applied in Taiwan, United States, WIPO
	(8) Method for multiplexing of parallel information streams in a CDMA system	WO-9818218	Applied in United States, WIPO

(Reference : Not applied in Japan)

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO.	REMARKS
Telefonaktiebolaget LM Ericsson	(9) Code-rate increased compressed mode DS-CDMA systems and methods	WO-9740593	Applied in United States, WIPO
	(10) Multi-code compressed mode DS-CDMA systems and methods	WO-9740592	Applied in United States, WIPO
	(11) Synchronization to a base station and code acquisition within a spread spectrum communications system	WO-9912273	Applied in United States, South Africa, WIPO
	(12) Handover without notice	EP-537795	Applied in Germany, Spain, France, United Kingdom, Italy, Netherlands, Sweden
	(13) Methods and arrangements in a radio communications system	WO-9857450	Applied in Sweden, WIPO
	(14) Transmit power control in a radio communication system	WO-9856120	Applied in South Africa, WIPO
	(15) Modified downlink power control during macrodiversity	WO-9856200	Applied in South Africa, WIPO
	(16) Channelization code allocation for radio communication systems	WO-9903224	Applied in South Africa, WIPO

(Reference : Not applied in Japan**)**

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO.	REMARKS
Telefonaktiebolaget LM Ericsson	(17) Cell search in a CDMA communications system	WO-9912295	Applied in South Africa, WIPO
	(18) Multi-service handling by a single mobile station	WO-9916264	Applied in South Africa, WIPO
	(19) System and method for positioning a mobile station in a CDMA cellular system	WO-9921388	Applied in South Africa, WIPO
Ericsson Inc.	(20) Navigation assistance for call handling in mobile telephone systems	US-5670964	

(Reference : Not applied in Japan**)**

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO.	REMARKS
Nippon Telegraph and Telephone Corporation	(1) Sound synthesizer	US 4393272 CA 1157564 CA (Division) 1170370 DE 3037276 DE (Division) 3050742 FR 8021110 GB 2059726 GB (Division) 2131659 NL 189320 SE 444730	Applied in United States, Canada, Germany, France, United Kingdom, Netherlands, Sweden

(Reference : Not applied in Japan)

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO.	REMARKS
University de Sherbrooke	(1) Dynamic codebook for efficient speech coding based on algebraic code	US 5,444,816	Nokia has the exclusive license with the right to grant sub-licenses in regard of this patent.
	(2) Fast sparse-algebraic-codebook search for efficient speech coding	US 5,699,482	Nokia has the exclusive license with the right to grant sub-licenses in regard of this patent.
Voicecraft	(1) Vector adaptive predictive coder for speech and audio	US 4,969,192	Nokia has the exclusive license with the right to grant sub-licenses in regard of this patent.
University de Sherbrooke	(1) Algebraic codebook with signal-selected pulse amplitude/position combinations for fast coding of speech	US 5,754,976	Nokia has the exclusive license with the right to grant sub-licenses in regard of this patent.
	(2) Depth-first algebraic-codebook search for fast coding of speech	US 5,701,392	Nokia has the exclusive license with the right to grant sub-licenses in regard of this patent.
	(3) Predictive split-matrix quantization of spectral parameters for efficient coding of speech	US 5,664,053	Nokia has the exclusive license with the right to grant sub-licenses in regard of this patent.
Nokia Mobile Phones Ltd.	(1) Speech synthesizer	US 5,946,651	

(Reference : Not applied in Japan)

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO.	REMARKS
Nokia Mobile Phones Ltd.	(2) Method for transmitting two parallel channels using code division and an apparatus···	EP 0881786	
	(3) Mobile station employing selective discontinuous transmission for high speed data services	EP 0887948	
	(4) Method of ciphering data transmission, and cellular radio system	WO 9939525	
	(5) Speech coding	WO 9850910	
Nokia Telecommunications Ltd.	(1) Method of implementing macrodiversity	WO 9913652	
	(2) Method for transmitting pilot channels, and a cellular radio system	WO 9637970	
	(3) Multiple pilot signals in a cdma cellular communication system	FI 98171	
Nokia Networks Ltd.	(1) Two stage rate matching for multiservice operation	FI 980703	

(Reference : Not applied in Japan)

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO.	REMARKS
Hitachi, Ltd.	(1) Spread spectrum communication system and transmission power control method therefore	USP5,559,790	Applied in United States
	(2) CDMA communication system and method	USP5,870,393	Applied in United States
	(3) CDMA mobile communication system and communication method	08/690819	Applied in United States
	(4) CDMA mobile communication system and communication method	32857/96	Applied in Korea (South)
	(5) CDMA mobile communication system and communication method	96109419.2	Applied in China
	(6) CDMA mobile communication system and communication method	2182429	Applied in Canada
	(7) CDMA communication system and method	USP5,930,244	Applied in United States.
	(8) CDMA communication system and method	97110809.7	Applied in EPC
	(9) CDMA communication system and method	97110809.7	Applied in United Kingdom

(Reference : Not applied in Japan)

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO.	REMARKS
Hitachi, Ltd.	(10) CDMA communication system and method	97110809.7	Applied in Germany
	(11) CDMA communication system and method	97110809.7	Applied in France
	(12) CDMA communication system and method	31046/97	Applied in Korea (South)
	(13) CDMA communication system and method	97114639.X	Applied in China
	(14) CDMA communication system and method	86109271	Applied in Taiwan
	(15) CDMA communication system and method	2209457	Applied in Canada
	(16) CDMA communication system and method	9702386-5	Applied in Singapore
	(17) CDMA communication system and method	038339	Applied in Thailand
	(18) Method of mobile communication and apparatus therefor	08/907088	Applied in United States

(Reference : Not applied in Japan)

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO.	REMARKS
Hitachi, Ltd.	(19) Method of mobile communication and apparatus therefor	37218/97	Applied in Korea (South)
	(20) Method of mobile communication and apparatus therefor	97117308.7	Applied in China
	(21) Method of mobile communication and apparatus therefor	2212420	Applied in Canada
	(22) CDMA communication system and its transmission power control method	08/985281	Applied in United States
	(23) CDMA communication system and its transmission power control method	97121324.4	Applied in EPC
	(24) CDMA communication system and its transmission power control method	97121324.4	Applied in United Kingdom
	(25) CDMA communication system and its transmission power control method	97121324.4	Applied in Germany
	(26) CDMA communication system and its transmission power control method	97121324.4	Applied in France
	(27) CDMA communication system and its transmission power control method	97121324.4	Applied in Sweden

(Reference : Not applied in Japan**)**

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO.	REMARKS
Hitachi, Ltd.	(28) CDMA communication system and its transmission power control method	97121324.4	Applied in Finland
	(29) CDMA communication system and its transmission power control method	63887/97	Applied in Korea (South)
	(30) CDMA communication system and its transmission power control method	97125446.X	Applied in China
	(31) CDMA communication system and its transmission power control method	2250/CAL/97	Applied in India
	(32) CDMA communication system and its transmission power control method	P19705877	Applied in Malaysia
	(33) CDMA communication system and its transmission power control method	041105	Applied in Thailand
	(34) Code division multiple access mobile communication system	09/257002	Applied in United States
	(35) Code division multiple access mobile communication system	99102816.8	Applied in EPC
	(36) Code division multiple access mobile communication system	99102816.8	Applied in United Kingdom

(Reference : Not applied in Japan)

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO.	REMARKS
Hitachi, Ltd.	(37) Code division multiple access mobile communication system	99102816.8	Applied in Germany
	(38) Code division multiple access mobile communication system	99102816.8	Applied in France
	(39) Code division multiple access mobile communication system	99102816.8	Applied in Finland
	(40) Code division multiple access mobile communication system	99102816.8	Applied in Korea (South)
	(41) Code division multiple access mobile communication system	99102816.8	Applied in China
	(42) Code division multiple access mobile communication system	99102816.8	Applied in Singapore
Hitachi, Ltd./ KDD Corp.	(1) CDMA mobile communication system and base station therefor	PCT/JP99/07175	Applied in PCT
	(2) Transmission power control method for a CDMA communication system	PCT/JP99/07174	Applied in PCT

(Reference : Not applied in Japan)

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO.	REMARKS
Motorola, Inc	(1) Method of operating a radio transmission or communication system including a central station and a plurality of individual remote stations, a radio transmission or communication system, and a remote station	USP 4,872,204	Applied in Austria, Belgium, Denmark, France, England, Germany, Italy, Netherlands, Singapore, Sweden, Switzerland
	(2) Handoff apparatus and method with interference reduction for a radio system	USP 4,696,027	Applied in Austria, Canada, France, England, Germany, Italy, Netherlands, Switzerland
	(3) Method and apparatus for transmitting information for multiple independent users in a communication system	USP 5,627,830	
	(4) M&A for data transmission within a broadband communications system	USP 5,966,384	Applied in PCT/US99/04868