

### **3.1 Essential IPRs for ARIB STD-T64 “IMT-2000 MC-CDMA System”**

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(See Section 3.1 and 3.2 below), 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.

In the following List of Essential IPRs, the patents which have no footnote are applied to the part defined by ARIB STD-T64 Ver.1.00.

List of Essential Industrial Property Rights (IPRs) for  
ARIB STD-T64 "IMT-2000 MC-CDMA System"

**ARIB STD-T64 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 DoCoMo, Inc	(1) 移動通信ハンドオーバー方法および移動局装置と基地局装置	特許 2939116 (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	特許 2688686 (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	特許 2801967 (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	特許 2993554 (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ー方式を持つ移動通信システム	WO95/32594 (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 DoCoMo, 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	特許 2855172 (特再平 8-826582)	Applied in United States, Germany, United Kingdom, Italy, France, Sweden, Canada, China, Korea (South)
	(9) D S - C D M A 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	WO97/50197 (特再平 9-850197)	Applied in United States, Germany, United Kingdom, Italy, France, Sweden, Canada, China, Korea (South)
	(11) C D M A 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) C D M A 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 DoCoMo, Inc	(13) CDMA移動通信システムにおけるハンドオーバー種別判定方法およびCDMA移動通信システム	特許 3224345 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、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	特開 2000-353965 (特願平 11-98160) (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 TELEPHONE 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 COMMUNICATION)	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) 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装置	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, United States 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 and Apparatus for Performing Reduced Rate Variable Rate Vocoding	506728/96	Applied in Other countries: United States Patent # 5,911,128, Australia, Brazil, Canada, Chile, China, European Patent Office, Finland, India, Indonesia, Israel, Federation of Malaysia, Russian Federation, South Africa, Korea (South), Taiwan, Vietnam
	(15) 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

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
Qualcomm Incorporated	(16) 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,
	(17) 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
	(18) 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

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
Qualcomm Incorporated	(19) 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
	(20) 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

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
Qualcomm Incorporated	(21) 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
	(22) 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
	(23) 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



PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
Qualcomm Incorporated	(24) 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
	(25) 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
	(26) 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

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
Qualcomm Incorporated	(27) 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
	(28) 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
	(29) 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
	(30) Transmitter Power Control System	507203/93 Patent No. 2935896	Applied in Other countries: United States Patent # 5,267,262

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
Qualcomm Incorporated	(31) 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
	(32) Adaptive Despreader	507873/97	Applied in Other countries: United States Patent # 5,692,006, Argentina, Chile, Indonesia, Federation of Malaysia, South Africa, Taiwan
	(33) 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
	(34) 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

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
Qualcomm Incorporated	(35) 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)
	(36) 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	(37) 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	(38) 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, EA, European Patent Office, Finland, Indonesia, Israel, Federation of Malaysia, Mexico, New Zealand, Singapore, South Africa, Korea (South), Taiwan, Vietnam
	(39) 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
	(40) 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, Ukraine

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
Qualcomm Incorporated	(41) 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
	(42) 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
	(43) 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	(44) 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
	(45) 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)
	(46) 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	(47) 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
	(48) 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)
	(49) 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	(50) 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
	(51) 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
	(52) 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	(53) 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
	(54) 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	(55) 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
	(56) 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
	(57) 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	(58) 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
	(59) 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
	(60) 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	(61) 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
	(62) 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
	(63) 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	(64) 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 (2) 処理利得可変型CDMA通信方式及び送受信機 (3) DS-SS-SSMA方式移動局のハンドオフ方式及びハンド オフ装置 (4) 初期同期捕捉方法及び初期同期捕捉回路 (5) セクタアンテナ装置 (6) スペクトラム拡散通信用関連回路 (7) CDMA基地局装置	特願平 8-210315 特願平 9-58599 特願平 9-215239 特願平 9-280956 特願平 10-338241 特願平 10-371463 特願平 11-204331	Applied in United States



PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
KDD Corporation / Hitachi, Ltd.	(1) 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  (2) 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  (3) セル半径の制御方法  (4) 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  特願 2000-027547  特願平 11-75756  特願平 10-362871	
KDD Corporation	(1) セルラーシステム送信電力制御方法  (2) CDMA 移動通信システムにおける符号割当方法  (3) アダプティブアレイアンテナ制御方式	特願平 11-53896  特願平 11-185543  特許 2684888	

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  (2) スペクトラム拡散信号受信装置の復調装置  (3) 符号多重受信装置	特許第 01624765  特許第 01864986  特開平 09-027796	

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
Telefonaktiebolaget LM Ericsson	(1) セル方式デ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
Ericsson Inc.	(2) デジタルセルラ通信用暗号化システム (Encryption system for digital cellular communications)	特表平 06-501350 (JP-06501350)	Applied in Australia, Brazil, Canada, China, United Kingdom, Hong Kong, Korea (South), Mexico, New Zealand, Singapore, Taiwan, United States, WIPO
Ericsson GE Mobile Communications Inc.	(3) 最大値探索回路 (Maximum search circuit)	特表平 06-505587 (JP-06505587)	Applied in Australia, Spain, France, United Kingdom, Hong Kong, Mexico, Singapore, Taiwan, United States, WIPO
Telefonaktiebolaget LM Ericsson	(4) 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

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
Telefonaktiebolaget LM Ericsson	(5) セル式無線電話装置の信号通信の信頼性を増強する方法 と装置 (Method and apparatus for enhancing signaling reliability in a cellular mobile radio telephone system)	特開平 06-121374 (JP-06121374)	Applied in Argentina, Austria, Australia, Belgium, Brazil, Switzerland, Germany, Denmark, Spain, France, United Kingdom, Greece, Italy, Korea (South), Luxembourg, Mexico, Netherlands, New Zealand, Sweden, Taiwan, United States
Ericsson GE Mobile Communications Inc.	(6) 選択レイ結合レーキ受信機 (Rake receiver with selective ray combining)	特表平 06-510411 (JP-06510411)	Applied in Australia, Mexico, New Zealand, Taiwan, United States, WIPO
	(7) 不連続 CDMA 受信方式 (Discontinuous CDMA reception)	特表平 08-501665 (JP-08501665)	Applied in Australia, Mexico, New Zealand, Taiwan, United States, WIPO
Telefonaktiebolaget LM Ericsson	(8) デジタル移動電話システムにおける送信電力調整方法 (Method for power regulation in a digital mobile telephony system)	特開平 04-233334 (JP-04233334)	Applied in Austria, Australia, Belgium, Brazil, Switzerland, China, Germany, Denmark, Spain, France, United Kingdom, Greece, Hong Kong, Italy, Korea (South), Luxembourg, Mexico, Federation of Malaysia, Netherlands, New Zealand, Sweden, Singapore, Taiwan, United States

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
Telefonaktiebolaget LM Ericsson	(9) CDMA 周波数割当て (CDMA frequency allocation)	特表平 06-511128 (JP-06511128)	Applied in Australia, Mexico, New Zealand, Taiwan, United States, WIPO
Ericsson GE Mobile Communications Inc.	(10) 量子化コヒーレント RAKE 受信機 (Quantized coherent rake receiver)	特表平 07-508393 (JP-07508393)	Applied in Australia, Mexico, New Zealand, United States, WIPO
	(11) 二重電力制御 (Duplex power control)	特表平 06-511129 (JP-06511129)	Applied in Australia, Mexico, New Zealand, Taiwan, United States, WIPO
	(12) 無線通信用多重アクセスコーディング (Multiple access coding for mobile radio communications)	特表平 06-511371 (JP-06511371)	Applied in Australia, Mexico, New Zealand, Taiwan, United States, WIPO
	(13) 発呼チャンネルの CDMA 通信システム (Calling channel in CDMA communications system)	特表平 06-511610 (JP-06511610)	Applied in Australia, Mexico, New Zealand, Taiwan, United States, WIPO
	(14) 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

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
Ericsson GE Mobile Communications Inc.	(15) 移動電話システムにおけるランダム・アクセス (Random access in mobile radio telephone systems)	特表平 08-502151 (JP-08502151)	Applied in Australia, Korea (South), Mexico, New Zealand, Taiwan, United States, WIPO
Ericsson Inc.	(16) 移動無線通信用のイベント系列を用いた多元接続符号化 (Multiple access coding using bent sequences for mobile radio communications)	特表平 10-507322 (JP-10507322)	Applied in Australia, Singapore, United States, 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  (2) 音声符号化装置  (3) 音声符号化・復号化装置  (4) 音声符号化装置  (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  (6) 移動体スペクトル拡散通信方式	特許第 1715101 号  特許第 1740692 号  特許第 1740693 号  特許第 1740694 号  特許第 1790895 号  特許第 1801744 号	Applied in United States, Canada  Applied in United States, Canada  Applied in United States, Canada

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
Hitachi, Ltd./ Hitachi Telecom Technologies, Ltd.	(1) 通信装置 (Telecommunication system for spread spectrum communication)  (2) 交換装置 (Switching system for spread spectrum communication)  (3) 端末装置 (Mobile radio terminal for spread spectrum communication)  (4) 無線基地局 (Radio base station for spread spectrum communication)  (5) 端末装置 (Mobile radio terminal for spread spectrum communication)	特許第 2644723 号 (Reg. No.2644723)  特開平 10-191410 号 (Pub. No.Hei10-191410)  特開平 10-173591 号 (Pub. No.Hei10-173591)  特開平 10-215478 号 (Pub. No.Hei10-215478)  特開平 10-262027 号 (Pub. No.Hei10-262027)	
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)  (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)  (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 07-038496 号 (Pub. No.Hei07-038496)  特開 2000-004198 号 (Pub. No.2000-004198)  特開平 09-055693 号 (Pub. No.Hei09-055693)	

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
Hitachi, Ltd.	<p>(4) 移動通信システムおよび移動端末装置 (Mobile communication system and mobile terminal)</p> <p>(5) 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)</p> <p>(6) 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)</p> <p>(7) 移動体通信ハンドオフ方式 (Handoff method for CDMA mobile communication system)</p>	<p>特願平 11-223429 号 (App. No.Hei11-223429)</p> <p>特開平 10-173594 号 (Pub. No.Hei10-173594)</p> <p>特願平 11-233450 号 (App. No.Hei11-233450)</p> <p>特願平 11-355461 号 (App. No.Hei11-355461)</p>	
Hitachi, Ltd./ KDD Corp.	<p>(1) 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)</p> <p>(2) セル半径の制御方法 (Control method of cell radius in CDMA communication system)</p> <p>(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 (CDMA mobile communication system, base station controller and base station, and transmission power control method for therefor)</p>	<p>特願平 11-058917 号 (App. No.Hei11-058917)</p> <p>特願平 11-075756 号 (App. No.Hei11-075756)</p> <p>特願 2000-027847 (App. No.2000-027547)</p>	

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
Fujitsu Limited	(1) 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)	
	(2) 直接拡散スペクトラム拡散通信方式 (Direct Sequence Spread Spectrum Communication Method)	特願平 5-233059 (Japanese Application No. TOKUGANHEI 5-233059)	
	(3) スペクトル拡散通信方式 (Spread Spectrum Communication Method)	特願平 8-139268 (Japanese Application No. TOKUGANHEI 8-139268)	Applied in United States, United Kingdom
	(4) 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
	(5) 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)
	(6) CDMA移動通信におけるハンドオーバー方法並びにその 基地局及び移動局 (Handover Method in CDMA Mobile Communication, Base Station and Mobile Station of Same)	特願平 10-232934 (Japanese Application No. TOKUGANHEI 10-232934)	Applied in United States, United Kingdom, Germany, France

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
Fujitsu Limited	(7) 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
	(8) ソフトハンドオフ方法及びそれを用いた移動通信システム (Soft-Handoff Method and Mobile Communication System Based on Same)	特願平 10-252342 (Japanese Application No. TOKUGANHEI 10-252342)	Applied in United States, China, Korea (South)

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
Matsushita Electric Industrial Co., Ltd.	(1) 自動車・携帯電話システム	登録 2863975	Applied in United States, Canada, China, Korea (South), India
	(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) 移動通信装置自動車・携帯電話システム	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	
	(6) データ通信システム	特開平 07-231479	Applied in United States, United Kingdom, Germany, France
	(7) 画像・音声電送装置及びその方法	特開平 11-239330	

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
Matsushita Electric Industrial Co., Ltd.	(8) 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
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	<p>(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)</p> <p>(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&amp;A for data transmission within a broadband communications system)</p>	<p>特開平 10-136428 号 (Japanese Laid-open No.10-136428)</p> <p>特願 2000-503635 (JPN Patent Application No. 2000-503635)</p>	<p>Applied in United States, (USP5,920,550)</p> <p>Applied in United States, (USP5,964,356)</p>

**Attachment 2 List of Essential Industrial Property Rights for ARIB STD-T64**

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO.	REMARKS
Mitsubishi Electric Corporation * <sup>10</sup>	(1) Voice Decoding Apparatus and Voice Coding / Decoding Apparatus	REGISTRATION NO. 2659605	Countries of filing : JP
	(2) Voice Coding Apparatus	REGISTRATION NO. 2905155	Countries of filing : JP
	(3) Voiced Sound / Unvoiced Sound Discriminating Apparatus	Laid-open NO.:Hei-07-056598	Countries of filing : JP
	(4) Voice Activity Detection Deciding Apparatus and Voice Activity Detection Deciding Method	APPLICATION NO. :2000-188942	Countries of filing : JP
	(5) Voice Activity Detection Deciding Apparatus and Voice Activity Detection Deciding Method	APPLICATION NO. :2000-188987	
Nippon Telegraph and Telephone Corporation * <sup>12</sup> NTT DoCoMo, Inc * <sup>12</sup>	(1) チャンネル変更制御方式	特許 2637166	
	(2) 移動通信制御方式	特許 2560854	
Mitsubishi Electric Corporation * <sup>11</sup>	It would be submitted before 25 January 2001.	It would be submitted before 25 January 2001.	Submitted comprehensive confirmation
NEC Corporation * <sup>11</sup>	It would be submitted before 25 January 2001.	It would be submitted before 25 January 2001.	Submitted comprehensive confirmation
Qualcomm Incorporated * <sup>11</sup>	It would be submitted before 25 January 2001.	It would be submitted before 25 January 2001.	Submitted comprehensive confirmation
Mitsubishi Electric Corporation. * <sup>12</sup>	It would be submitted before 30 June 2001.	It would be submitted before 30 June 2001.	Submitted comprehensive confirmation

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO.	REMARKS
NEC Corporation. * <sup>12</sup>	It would be submitted before 30 June 2001.	It would be submitted before 30 June 2001.	Submitted comprehensive confirmation
NTT DoCoMo Inc. * <sup>12</sup>	It would be submitted before 30 June 2001.	It would be submitted before 30 June 2001.	Submitted comprehensive confirmation
Mitsubishi Electric Corporation * <sup>13</sup>	It would be submitted before 30 November 2001.	It would be submitted before 30 November 2001.	Submitted comprehensive confirmation
Motorola Japan Ltd. * <sup>13</sup>	It would be submitted before 30 November 2001.	It would be submitted before 30 November 2001.	Submitted comprehensive confirmation
NEC Corporation. * <sup>13</sup>	It would be submitted before 30 November 2001.	It would be submitted before 30 November 2001.	Submitted comprehensive confirmation
Qualcomm Incorporated * <sup>13</sup>	It would be submitted before 30 November 2001.	It would be submitted before 30 November 2001.	Submitted comprehensive confirmation

\*<sup>10</sup>: These patents are applied to the part defined by ARIB STD-T64 Ver.1.00.

\*<sup>11</sup>: These patents are applied to the revised part of ARIB STD-T64 Ver.1.10.

\*<sup>12</sup>: These patents are applied to the revised part of ARIB STD-T64 Ver.1.20.

\*<sup>13</sup>: These patents are applied to the revised part of ARIB STD-T64 Ver.1.30.

**Attachment 2 List of Essential Industrial Property Rights for ARIB STD-T64**

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
NTT DoCoMo Inc. *12	(1) CDMA移動通信システムにおける信号伝送方法  (2) 多重化装置、インターリービング処理装置、データ信号伝送装置  (3) 移動通信制御方法及びそのシステム及びそれに用いられる基地局及び移動局  (4) 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  (5) 移動通信システムにおける送信電力制御方法  (6) 移動通信システムにおける拡散コードの同期確立方法および移動局装置と基地局装置  (7) 通信アクセス制御方式およびアダプタ  (8) 移動通信システム、移動局、およびダイバーシティ・ハンドオーバ・ブランチ制御方法  (9) フレーム送受信装置	特開平 10-210541  W000/69079  特開 2001-189693  特許 2939114  特許 3014308  特開平 9-275582  特開平 10-32605  WO98-56196  WO98-29970	Applied in United States, Canada, United Kingdom, Germany, France, Italy, China, Korea(South), Singapore, Australia  Applied in United States, United Kingdom, Germany, Italy, China, Korea(South), Singapore  Applied in United States, United Kingdom, Germany, Italy, Sweden, China  Applied in United States, Canada, United Kingdom, China, Korea(South)  Applied in United States, Canada, United Kingdom, Germany, France, Italy, Sweden, China, Korea(South)

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
NTT DoCoMo Inc. *12	<p>(10) データ伝送方法、データ伝送システム、送信装置および受信装置</p> <p>(11) データ信号送信方法</p> <p>(12) データ伝送方法、データ伝送システムおよび送信装置、受信装置</p> <p>(13) 送信電力制御方法および移動局装置</p>	<p>W000/79720</p> <p>特許 3159301</p> <p>WO97-50219</p> <p>特許 2904335</p>	<p>Applied in United States, Canada, United Kingdom, Germany, France, Italy, China, Korea(South), Singapore, Australia</p> <p>Applied in United States, Canada, United Kingdom, China, Korea(South)</p> <p>Applied in United States, Canada, United Kingdom, Germany, France, Italy, Sweden, China, Korea(South)</p>

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
NEC Corporation. * <sup>14</sup>	It would be submitted before 27 September 2002.	It would be submitted before 27 September 2002.	Submitted comprehensive confirmation
Qualcomm Incorporated. * <sup>14</sup>	It would be submitted before 27 September 2002	It would be submitted before 27 September 2002	Submitted comprehensive confirmation

\*<sup>12</sup>: These patents are applied to the revised part of ARIB STD-T64 Ver.1.20.

\*<sup>14</sup>: These patents are applied to the revised part of ARIB STD-T64 Ver.1.40.

**Attachment 2 List of Essential Industry Property Rights**

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
Motorola Incorporated * <sup>20</sup>	A comprehensive confirmation form has been submitted with regard to ARIB STD-T64 Ver.2.00.		
NEC Corporation * <sup>20</sup>	A comprehensive confirmation form has been submitted with regard to ARIB STD-T64 Ver.2.00.		
Qualcomm Incorporated * <sup>20</sup>	A comprehensive confirmation form has been submitted with regard to ARIB STD-T64 Ver.2.00.		

\*<sup>20</sup>: These patents are applied to the revised part of ARIB STD-T64 Ver.2.00.



**Attachment 2 List of Essential Industry Property Rights****(Selection of option 2)**

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
Motorola Incorporated * <sup>21</sup>	A comprehensive confirmation form has been submitted with regard to ARIB STD-T64 Ver.2.10.		
NTT DoCoMo, Inc. * <sup>21</sup>	A comprehensive confirmation form has been submitted with regard to ARIB STD-T64 Ver.2.10.		
Qualcomm Incorporated * <sup>21</sup>	A comprehensive confirmation form has been submitted with regard to ARIB STD-T64 Ver.2.10.		

**Attachment 2 List of Essential Industrial Property Rights for ARIB STD-T64 Ver.1.40**

**(Selection of option 2)**

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO.	REMARKS
Qualcomm Incorporated * <sup>14</sup>	(65) Alternating Sequential Half Duplex Communication System	502240/89	Applied in Other countries: United States Patent # 4,979,170, Australia, Austria, Belgium, Canada, European Patent Office, France, Germany, Italy Luxembourg, Netherlands, Singapore, Sweden, Switzerland, United Kingdom
	(66) Apparatus and Method for Reducing Power Consumption in a Mobile Communications Receiver	515898/93	Applied in Other countries: United States Patent # 5,392,287, Australia, Brazil, Bulgaria, Canada, China, Czech Republic, European Patent Office, Finland, Hungary, Israel, Mexico, Korea (North), Romania, Russian Federation, Slovak Republic, South Africa, Korea (South)
	(67) Fast Forward Link Power Control in a Code Division Multiple Access System	515247/95	Applied in Other countries: United States Patent #5,383,219, 5,461,639

**Attachment 2 List of Essential Industrial Property Rights for ARIB STD-T64 Ver.1.40**

**(Selection of option 2)**

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO.	REMARKS
Qualcomm Incorporated * <sup>14</sup>	(68) Linear Coverage Area Antenna System for a CDMA Communication System	501949/97	Applied in Other countries: United States Patent # 5,602,834, Australia, Finland, Israel, Korea (South), Taiwan
	(69) Detection and Bypass of Tandem Vocoding Using Detection Codes	523051/96	Applied in Other countries: United States Patent # 5,956,673 (U.S. Application No. 08/378,300), Australia, Brazil, Canada, China, European Patent Office, India, Indonesia, Malaysia, New Zealand, Russian Federation, Korea (South), Taiwan, Ukraine, Vietnam
	(70) Method and Apparatus for Paging A Concentrated Subscriber System for Wireless Local Loop	523785/96	Applied in Other countries: United States Patent # 5,544,223, Argentina, Brazil, Chile, European Patent Office, India, Indonesia, Israel, Malaysia, Mexico, Russian Federation, South Africa, Taiwan, Ukraine, Vietnam

**Attachment 2 List of Essential Industrial Property Rights for ARIB STD-T64 Ver.1.40**

**(Selection of option 2)**

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO.	REMARKS
Qualcomm Incorporated * <sup>14</sup>	(71) Method and Apparatus for Performing Reduced Rate Variable Rate Vocoding	507404/96	Applied in Other countries: United States Patent # 5,911,128, (U.S. Application No. 08/815,354), Australia, Brazil, Canada, Chile, China, European Patent Office, Finland, India, Indonesia, Israel, Malaysia, Russian Federation, South Africa, Korea (South), Taiwan, Vietnam
	(72) Network Echo Canceller	509197/94	Applied in Other countries: United States Patent # 5,307,405, United States Patent # 5,559,881, Australia, Brazil, Bulgaria, Canada, China, Czech Republic, European Patent Office, Finland, Hungary, Israel, Mexico, Korea (North), Norway, Poland, Romania, Russian Federation, Slovak Republic, South Africa, Korea (South)

**Attachment 2 List of Essential Industrial Property Rights for ARIB STD-T64 Ver.1.40**

**(Selection of option 2)**

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO.	REMARKS
Qualcomm Incorporated *14	(73) Time-Division Duplex Repeater for Use in a CDMA system	510554/97	Applied in Other countries: United States Patent # 6,108,364, (U.S. Application No. 08/522,469
	(74) Method and System for Providing a 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, Malaysia, Mexico, Norway, Singapore, South Africa, Korea (South), Taiwan
	(75) Linear Gain Control Amplifier	5414728	Applied in Other countries: United States Patent # 5,099,204, Australia, Brazil, Canada, European Patent Office, Finland, Mexico, Norway, Korea (South), Taiwan

Attachment 2 List of Essential Industrial Property Rights for ARIB STD-T64 Ver.1.00

(Selection of option 2)

特許出願人	発明の名称	出願番号等	備考（出願国名）
Nokia Corporation * <sup>10</sup>  ノキア モービルフォーンズ リミテッド * <sup>10</sup>	(1)Sparse feedback in high delay-low bandwidth wireless systems	WO 01/35568	CA CN EP JP US WO
	(2)Defining context identifier in header field compression	WO 02/25895	FI US WO
	(3)Defining header field compression for data packing connection	WO 02/33931	FI US WO
	(4)音声符号化方式及び装置	特開平 11-24699	AU CN EP FI IN JP KR US WO
	(5)マルチレートCDMA通信システムのためのフレーム構成方法	特開平 10-107764	BR CN EP KR JP US
	(6)信号を符号化するためのデータ伝送方法及び機器	特表 2000-503185	BR CN EP FI JP KR RU US WO
	(7)スピーチコーダ	特表平 11-507739	AU BR CA CH CN DE EP ES FR GB IN IT JP RU SE US WO
	(8)移動局を動作させるための方法及び符号分割多元接続（CDMA） 移動局を動作させるための方法及び無線データ端末	特開平 11-74835	EP JP KR US

Attachment 2 List of Essential Industrial Property Rights for ARIB STD-T64 Ver.1.00

(Selection of option 2)

特許出願人	発明の名称	出願番号等	備考（出願国名）
ノキア モバイルフォーンズ リミテッド * <sup>10</sup>	(9)音声活性検出装置及び移動局並びに音声活性検出方法	特開平 9-212195	CH DE EP FR GB IT JP NL SE US WO
ノキア テレコミュニケーションズ オサケユキチュア * <sup>10</sup>	(10)移動通信システムの packets 交換データサービスのための位置更新方法	特表平 9-511632	AU CN EP FI HK JP US WO
	(11)接続確立方法、加入者ターミナルユニット及び無線システム	特表 2000-504186	AU CN EP FI JP NO US WO
	(12)移動通信ネットワークの高速データ送信方法	特表平 11-501779	AU CA CN EP FI HK JP KR NO SG US WO
	(13)TDMA 移動通信システムにおけるデータ送信方法	特表平 10-509566	AU CA CN EP FI HK JP KR SG US WO
	(14)パイロットチャンネルの送信方法及びセルラー無線システム	特表平 10-503912	AU CN EP FI JP NO US WO
	(15)TDMA 移動通信システムにおけるデータ送信方法	特表平 10-511818	AU CA CN EP FI HK JP KR SG US WO

Attachment 2 List of Essential Industrial Property Rights for ARIB STD-T64 Ver.1.00

(Selection of option 2)

特許出願人	発明の名称	出願番号等	備考（出願国名）
ノキア テレコミュニケーションズ オンス オサケユイチュア *10	(16)マルチチャンネル高速データ転送方法	特表平 11-501185	CN WO FI AU NO EP US JP KR
ノキア モービルフォーンズ ズ リミティド, ノキア テレコミュニケーションズ オンス オサケユイチュア *10	(17)無線電話システム、及び無線電話ネットワーク内でのデータ送信方法、並びに無線電話機	特開平 7-170579	CN EE EP FI JP US
Nokia Mobile Phones Ltd, Nokia Telecommunications Oy *10	(18)A wide-band application based upon a narrow-band TDMA system	WO 97/02674	BR EP WO FI AU
Nokia Networks Oy *10	(19)Method and System for transmitting and receiving packets	WO 01/28180	CA CN EP JP US WO
	(20)A Technique for Compressing a header field in a data packet	WO 01/67709	US WO
	(21)Variable length encoding of compressed data	WO 01/35534	CA CN EP JP US WO



Attachment 2 List of Essential Industrial Property Rights for ARIB STD-T64 Ver.2.00

(Selection of option 2)

特許出願人	発明の名称	出願番号等	備考（出願国名）
ノキア テレコミュニケーションズ オサケユキチュア *20	(22)ハンドオーバ方法及びセルラ無線システム	特表平 11-511601	AU CN EP JP NO US WO
	(23)データ送信方法及びセルラ無線システム	特表平 11-511599	AU CN EP JP NO US WO

**Attachment 2 List of Essential Industrial Property Rights for ARIB STD-T64 Ver.2.10**

**(Selection of option 2)**

特許出願人	発明の名称	出願番号等	備考（出願国名）
ノキア モバイルフォーンズ リミテッド * <sup>21</sup>	(24)無線資源制御方法	特開平 10-190621	BR CN EP FI HK IN JP KR US

\*<sup>10</sup>: These patents are applied to the part defined by ARIB STD-T64 Ver.1.00.

\*<sup>14</sup>: These patents are applied to the revised part of ARIB STD-T64 Ver.1.40.

\*<sup>20</sup>: These patents are applied to the revised part of ARIB STD-T64 Ver.2.00.

\*<sup>21</sup>: These patents are applied to the revised part of ARIB STD-T64 Ver.2.10.

**Attachment 2 List of Essential Industrial Property Rights for ARIB STD-T64 Ver.2.20**

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. 〔Applied in Japan〕	REMARKS
Motorola Incorporated *22	A comprehensive confirmation form has been submitted with regard to ARIB STD-T64 Ver.2.20.		
Matsushita Electric Industrial Co.,Ltd. *22	A comprehensive confirmation form has been submitted with regard to ARIB STD-T64 Ver.2.20.		
Qualcomm Incorporated *22	A comprehensive confirmation form has been submitted with regard to ARIB STD-T64 Ver.2.20.		

**Attachment 2 List of Essential Industrial Property Rights for ARIB STD-T64 Ver.2.00**

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. 〔Applied in Japan〕	REMARKS
Matsushita Electric Industrial Co., Ltd. *20	(9) CDMA移動送信装置及びこれを用いた送信方法	特開平11-41203	US EP CA KR CN
	(10) PN符号発生装置及び移動無線通信システム	特許3329705	US EP CA MX KR CN IN
	(11) CDMA無線伝送システム並びに該システムにおいて用いられる送信電力制御装置および送信電力制御用測定装置	特開平10-56421	US EP GB DE FR SE KR CN Finland
	(12) 送信装置及びこれを用いた基地局装置	特許3260716	US EP CA KR CN IN SG MY
	(13) 無線通信端末装置及び無線通信基地局装置	特許3323443	US EP KR CN IN
	(14) スペクトル拡散通信同期方法とその回路装置	特許3142222	US EP
	(15)符号／復号化装置及び符号／復号化方法	特許3297668	US EP CN KR

**Attachment 2 List of Essential Industrial Property Rights for ARIB STD-T64 Ver.2.00**

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
Matsushita Electric Industrial Co., Ltd. *20	(16) 無線通信システム	特許3286308	US EP CA KR CN IN SG MY
	(17) 無線通信システム	特開2002-94453	US EP CA KR CN IN SG MY
	(18) 無線通信システム、移動局装置及び基地局装置	特開2002-94454	US EP CA KR CN IN SG MY
	(19) 通信基地局装置及び通信端末装置	特許3242098	US EP CA KR CN IN SG MY
	(20)送信電力制御方法	特許3215699	US EP CA KR CN IN SG MY

**Attachment 2 List of Essential Industrial Property Rights for ARIB STD-T64 Ver.2.00**

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
モトローラ・インコーポレイテッド *20	ドロップした通話保護回路を具えるセルラー無線電話装置及び方法	特許第2586631号	米国(USP4,811,380)、オーストリア、ベルギー、カナダ、EPC、フィンランド、フランス、イギリス、ドイツ、ギリシャ、香港、イタリア、ルクセンブルク、オランダ、スペイン、スウェーデン、スイス、タイ
	独立したネットワーク群におけるクロック速度の一致	特許第2987935号	米国 (USP 5,502,752)、オーストラリア、オーストリア、ブラジル、カナダ、中国、デンマーク、フィンランド、フランス、イギリス、グルジア、ドイツ、ギリシャ、香港、インド、イスラエル、イタリア、韓国、メキシコ、ニュージーランド、ロシア、南アフリカ、スウェーデン、台湾、タイ、トルコ、ウクライナ
	スペクトラム拡散通信システムにおけるコヒーレント通信方法および装置	特表平7-506713	米国 (5,329,547)、アルゼンチン、カナダ、中国、EPC、フィンランド、フランス、イギリス、グルジア、ドイツ、イタリア、マレーシア、メキシコ、ポーランド、シンガポール、スウェーデン

**Attachment 2 List of Essential Industrial Property Rights for ARIB STD-T64 Ver.2.00**

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
モトローラ・インコーポレイテッド *20	CDMA通信システムにおいてさまざまなチャンネル・タイプの信号を通信するための方法および装置	特表2002-523920	米国 (5,991,285) ブラジル、EPC、韓国
	符号分割多重接続信号を処理するための複素擬似雑音シーケンスを生成する方法およびシステム	特表2002-502163	米国 (6,246,697) 、ブラジル、中国、カナダ、EPC,イスラエル、韓国、PCT
	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	特許第2750638号	米国 (5,239,294) カナダ、メキシコ
	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	特許第2750638号	米国 (5,572,193) カナダ、メキシコ
	通信システムにおいて信号を発信するための方法および装置	特表2001-512921	米国 (6,038,263) アルゼンチン、オーストラリア、ブラジル、カナダ、中国、EPC,イスラエル、韓国、ロシア
	拡散スペクトル通信システム内のデータ送信方法	特表2002-535875	米国 (6,091,757) 、ブラジル、EPC、韓国
	通信システムにおけるレート決定装置および方法	特表2001-513906	米国 (6,104,993) 、ブラジル、カナダ、EPC, 中国、イスラエル、韓国、
	通信システムにおけるレート決定装置および方法	特表2001-513906	米国 (6,453,291) 、ブラジル、カナダ、EPC, 中国、イスラエル、韓国、

**Attachment 2 List of Essential Industrial Property Rights for ARIB STD-T64 Ver.2.00**

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
モトローラ・リミテッド *20	送信経路重みのための装置および方法	特開平10-117162	イギリス (2,313,261) オーストラリア、ブラジル、カナダ、中国、フィンランド、フランス、ドイツ、ハンガリー、インド、イスラエル、イタリア、韓国、ロシア、スウェーデン、米国
	送信経路重みのための装置および方法	特開平10-117162	イギリス (EP0,807,989) オーストラリア、ブラジル、カナダ、中国、フィンランド、フランス、ドイツ、ハンガリー、インド、イスラエル、イタリア、韓国、ロシア、スウェーデン、米国
	音声パケット通信の方法と装置	特表2000-563080	米国 (6,130,883) 、ブラジル、EPC、韓国
	ワイヤレス通信システムにおいて適応型アンテナ・アレイを利用して通信信号を送信および復調するための方法およびシステム	特表2000-557556	米国 (6,067,324) 、ブラジル、カナダ、中国、EPC、韓国
	コード分割多重アクセス・システムにおけるプリアンブル・シーケンスを発生するための方法	特表2001-510175	米国 (6,175,559) 、ブラジル、EPC、韓国
	回線交換音声データとGPRSデータとの同時交換のための方法と装置	特表2001-552658	米国 (6,282,182) 、オーストラリア、ブラジル、中国、EPC、イギリス、ハンガリー、インド、メキシコ



**Attachment 2 List of Essential Industrial Property Rights for ARIB STD-T64 Ver.1.00**

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
ノキア モービルフォーンズ リミテッド * <sup>10</sup>  NOKIA MOBILE PHONES LTD. * <sup>10</sup>  ノキアネットワークス オサケユキチュア * <sup>10</sup>	パケットデータ送信をスケジューリングする方法	特開平 11-4236	Brazil, China, European Patent Office, Japan, Korea (South), United States
	A METHOD AND APPARATUS FOR DETERMINING SPEECH CODING PARAMETERS	WO00/41163	Japan, China, United States, Finland, European Patent Office, Hong Kong
	ADDRESS ACQUISITION	WO01/54437	Brazil, Canada, China, European Patent Office, Finland, Japan, Korea (South), Singapore, United States, South Africa,
	パケット無線ネットワークの I P 移動機構	特表 2002-525995	European Patent Office, Finland, Japan, United States, WO
データ送信のサービスクオリティを制限する方法及びシステム	特表 2002-533030	Brazil, Canada, China, European Patent Office, Japan, United States	

**Attachment 2 List of Essential Industrial Property Rights for ARIB STD-T64 Ver.2.00**

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
NOKIA NETWORKS OY *20	PREVENTION OF SPOOFING IN TELECOMMUNICATIONS SYSTEMS	WO01/47179	China, European Patent Office, Finland, Japan, United States

**Attachment 2 List of Essential Industrial Property Rights for ARIB STD-T64 Ver.2.00**

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
Qualcomm * <sup>20</sup>	(76) System for Generating an Accurate Low-Noise Periodic Signal	WO00/01072	
	(77) Method and Apparatus for Controlling Data Transfer Between Two Stations	WO00/01190	
	(78) Method and apparatus for fast WCDMA acquisition	WO00/01596	
	(79) Method and apparatus for controlling transmission energy in a communication system employing orthogonal transmit diversity	WO00/01604	
	(80) Automatic transmission of a mobile phone's own identification number	WO00/01723	
	(81) Improved inter-device serial bus protocol	WO00/02134	
	(82) Improved Power Supply Assembly for Hand-Held Communications Device	WO00/02299	
	(83) Methods and Apparatuses for Fast Power Control of Signals Transmitted on a Multiple Access Channel	WO00/03495	

**Attachment 2 List of Essential Industrial Property Rights for ARIB STD-T64 Ver.2.00**

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
Qualcomm *20	(84) Method and Apparatus for Transmitting and Receiving High Speed Data Using Code Division Multiple Access Channels	WO00/03502	CN,EP,HK,KR,TW,US
	(85) Transmission of Data Packets Over CDMA Type Cellular Telephone	WO00/04691	AU,CA,CN,EP,HK,IL,KR,MX,RU,SG,TW,US
	(86) Base Station Handover in a Hybrid GSM/CDMA Network	WO00/04729	AU,BR,CA,CL,CN,EP,ID,IL,IN,KR,MX,SG
	(87) Automatic Gain Control Circuit for Controlling Multiple Variable Gain Amplifier Stages While Estimating Received Signal Power	WO00/08751	AU,BR,CA,CN,EP,HK,ID,KR,MX,RU,US
	(88) Method and Apparatus for Rotating Modulation Symbol Indices	WO00/08771	
	(89) IP Mobility Support Using Proxy Mobile Node Registration	WO00/08822	AR,CA,CN,EP,HK,IN,KR,MY,TW,US
	(90) Time Offset Technique for Increasing the Capacity of a CDMA System	WO00/11802	AR,AU,BR,CA,CL,CN,EP,HK,ID,IL,KR,MX,NO,RU,SG,TW,UA,US
	(91) Method and Apparatus for Transmission and Construction of Quasi-Orthogonal Vectors	WO00/11825	AU,BG,BR,CA,CN,CZ,EP,HK,HU,ID,IL,IN,KR,MX,NO,PL,PT,RU,SG,SI,SK,US,ZA
	(92) Secure Processing for Authentication of a Wireless Communications Device	WO00/11835	CN,EP,HK,KR,US

**Attachment 2 List of Essential Industrial Property Rights for ARIB STD-T64 Ver.2.00**

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
Qualcomm *20	(93) System and Method for Priority Access Channel Assignment in a Cellular Telephone System	WO00/11879	AR,AU,BR,CA,CL,CN,EP,FI,H K,ID,IL,IN,KR,MX,NO,NZ,RU, SG,TW,UA,US
	(94) Method and Apparatus for Reducing Amplitude Variations in Communication Signals Employing Inserted Pilot Symbol	WO00/13337	CN,EP,HK,KR
	(95) Signal Splitting Method for Limiting Peak Power in a CDMA System	WO00/13343	CN,EP,HK,KR,US
	(96) Transmission of GSM Circuit-Switched Data Over a CDMA Link	WO00/13440	AR,AU,BR,CA,CL,CN,EP,ID,IL ,IN,KR,MX,NZ,PT,SG,TR,SG,T R,UA,VN,ZA
	(97) CDMA Transmission of Packet-Switched Data	WO00/13441	AR,AU,BR,CA,CL,CN,EP,FI,ID ,IL,IN,KR,MX,SG,TW,US
	(98) Accumulated Phase Measurement Using Open-Loop Phase Estimation	WO00/14553	
	(99) High Resolution Position Location	WO00/14563	AU,BR,CA,CN,EP,FI,HK,ID,IL, IN,KR,MX,SG,US
	(100) Energy Based Communication Zero-Rate Detection System and Method	WO00/14899	

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PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
Qualcomm *20	(101) Method and Apparatus for Distributed Optimal Reverse Link Scheduling of Resources, such as Rate and Power, in a Wireless Communication System	WO00/14900	CN,EP,HK,KR
	(102) A Method and Apparatus for the Reflection and Transmission of Quasi Orthogonal Vectors	WO00/14916	CN,EP,HK,KR
	(103) Loopback Processing Method and Apparatus	WO00/16514	
	(104) High Efficiency Switched Gain Power Amplifier	WO00/18004	
	(105) High Efficiency Switched Gain Power Amplifier	WO00/18005	AU,CA,CN,EP,HK,JP,US
	(106) Method and Apparatus for Transmitting and Receiving Variable Rate Data	WO00/18055	CN,EP,HK,KR,US
	(107) Interface Between Standard Terminal Equipment Unit and High Speed Wireless Link	WO00/18066	CN,EP,HK,KR,US
	(108) Method and Apparatus for Rapid Assignment of a Traffic Channel in Digital Cellular Communication Systems	WO00/18172	CN,EP,HK,KR,US
	(109) Method for Robust Handoff in Wireless Communication System	WO00/18173	AU,BR,CA,CN,EP,HK,ID,IL,KR, MX,NO,RU,SG,UA,US
	(110) Architecture for Dependability Enhancement of Wireless Base Stations	WO00/19637	CN,EP,HK,KR,US

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PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
Qualcomm *20	(111) Methods and Apparatuses for Fast Power Control of Signals Transmitted on a Multiple Access Channel	WO00/21213	BR,CA,CN,EP,HK,KR,MX,TW,US
	(112) Coding system having state machine based interleaver	WO00/22738	AU,BR,CA,CN,EP,HK,ID,IL,KR,MX,NO,RU,SG,UA,US
	(113) Combined Searching and Page Monitoring Using Offline Sample Storage	WO00/22747	BR,CA,CN,EP,HK,IN,KR,MX,US
	(114) Offline page monitoring	WO00/22748	AU,BR,CA,CN,EP,ID,IN,KR,MX,RU,US
	(115) Reservation Multiple Access	WO00/22873	CN,EP,HK,KR,US
	(116) Method and Apparatus for Pseudonoise Spreading in a CDMA Communication System	WO00/24136	CN,EP,HK,JP,KR,US
	(117) Method and Apparatus for Assigning Walsh Codes	WO00/24147	CN,EP,KR
	(118) SMS Initiation of a Data Call	WO00/24225	KR
	(119) Method and apparatus for multipath demodulation in a code division multiple access communication system	WO00/25439	CN,EP,JP,KR,US
	(120) A Mobile Terminal and Wireless Device with Common IP Address	WO00/25497	BR,CA,CN,EP,HK,IN,KR,MX

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PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
Qualcomm *20	(121) Method and Apparatus for Reverse Link Overload Detection	WO00/25548	CN,EP,HK,KR,US
	(122) Efficient Trellis State Metric Normalization	WO00/27034	CN,EP,KR,US
	(123) A system and method for reducing deinterleaver memory requirements through chunk allocation	WO00/27036	AU,BR,CA,CN,EP,KR
	(124) Efficient Iterative Decoding	WO00/27037	CN,EP,KR,US
	(125) Low Bit-Rate Coding of Unvoiced Segments of Speech	WO00/30074	CN,EP,HK,KR,US
	(126) Closed-Loop Variable-Rate Multimode Predictive Speech Coder	WO00/30075	
	(127) Processing signals of different data rates	WO00/31889	AU,CA,CN,EP,IL,KR,NO,SG,US
	(128) Method and Apparatus for Transmitting Reverse Link Power Control Signals Based on the Probability that the Power Control Command is in Error	WO00/31893	BR,CN,EP,HK,KR,US
	(129) Method and apparatus for reverse link loading estimation	WO00/33475	CN,EP,HK,KR,TW,US
	(130) Method and Apparatus for Controlling Transmission Power While in Soft Handoff	WO00/33480	CN,EP,HK,KR,US,TW



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PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
Qualcomm *20	(131) Turbo code interleaver using linear congruential sequences	WO00/35103	AU,BR,CA,CN,EP,HK,ID,KR,MX,NO,RU,SG,UA,US,VN
	(132) Method and apparatus for providing wireless communication system synchronization	WO00/35117	CN,EP,HK,KR,TW,US
	(133) Method and Apparatus for Improving Neighbor Searching Performance	WO00/35220	AU,BR,CA,CN,EP,HK,KR,US
	(134) Method of negotiating weakened keys in encryption systems	WO00/36787	CN,EP,HK,KR
	(135) Periodic Speech Coding	WO00/38177	CN,EP,HK,KR
	(136) Variable rate speech coding	WO00/38179	CN,EP,HK,KR,US
	(137) System and method for segmentation and recognition of speech signals	WO00/41164	CN,EP,HK,KR,US
	(138) System for allocating resources in a communication system	WO00/41542	
	(139) Active differential to single-ended converter	WO00/42703	AU,BR,CA,CN,EP,HK,ID,IL,KR,MX,NO,RU,SG,US
	(140) Pilot Filtering in the Presence of Phase Discontinuities in a CDMA Receiver	WO00/42713	AU,BR,CA,CN,EP,HK,ID,IL,KR,MX,RU,SG

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PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
Qualcomm *20	(141) System and method for the automatic identification of accessories coupled to a wireless communication device	WO00/42797	AU,CA,CN,EP,IL,KR,MX,SG,US
	(142) Method and apparatus for variable and fixed forward link rate control in a mobile radio communication system	WO00/42810	CN,EP,HK,KR,US
	(143) Automatic invocation of mobile IP registration in a wireless communication network	WO00/44183	AU,BR,CA,CN,EP,KR,US
	(144) System and method for providing access to a wireless communication service to a group of subscribers who share a set of modems	WO00/44190	AU,BR,CA,CN,EP,ID,IN,KR,NZ,UA,US,VN
	(145) Method and Apparatus for Reducing Peak-to-Average Ratio in a CDMA Communication System	WO00/45518	CN,EP,HK,KR,US
	(146) Method and Apparatus for Controlling Transmission Power in a CDMA Communication System	WO00/45527	CA,CN,EP,HK,KR,US
	(147) Method and Apparatus for Controlling Transmission Power in a Potentially Transmission Gated or Capped Communication System	WO00/45528	CN,EP,HK,KR,US
	(148) Blind Frame Identification in a Communication System	WO00/45544	AU,CA,CN,EP,KR,US

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PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
Qualcomm *20	(149) Method and Apparatus for Testing User Interface Integrity of Speech-Enabled Devices	WO00/46793	EP,KR,US
	(150) Distributed Voice Recognition System	WO00/46794	CN,EP,HK,KR,US
	(151) Method and apparatus for eighth-rate random number generation for speech coders	WO00/46796	CN,EP,HK,KR,US
	(152) Method and Apparatus for generating encryption stream ciphers	WO00/46954	CN,EP,HK,KR
	(153) Slotted Idle Mode for Dual Mode Subscriber Stations	WO00/48326	AU,BR,CA,CN,EP,KR,US
	(154) Simultaneous Set Up of PPP on a Um and a Rm Interface	WO00/51312	AU,BR,CA,CN,EP,IL,KR,MX,US
	(155) Method and system for reducing synchronization time in a CDMA wireless communication system	WO00/51392	
	(156) Method and system for handoff between an asynchronous CDMA base station and a synchronous CDMA base station	WO00/51393	
	(157) Radiotelephone Timer	WO00/52847	
	(158) Method and Apparatus for Efficient Data Retransmission in a Voice-Over-Data Communication System	WO00/52873	

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PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
Qualcomm *20	(159) CDMA signal power control using quadrature signal calculations	WO00/54415	
	(160) Spectral Shaping a CDMA Signal	WO00/54425	
	(161) Decreasing Peaks in a CDMA Signal	WO00/54426	
	(162) CDMA Signal Transmission Control	WO00/54428	
	(163) CDMA Signal Transmission Using Ratios of In-Band and Out-of-Band Signals	WO00/54429	
	(164) Methods and apparatus for power allocation on a reverse link power control channel of a communication system	WO00/54430	CN,EP,HK,KR,US
	(165) Method and apparatus for maximizing the use of available capacity in a communication system	WO00/54437	AU,BR,CA,CNEP,HK,ID,IL,KR, MX,NO,RU,SG,US,US,VN
	(166) Method of rate allocation in a data communications network	WO00/54438	CN,EP,KR,US
	(167) System and method for independently downloading features into a set of storage locations in a wireless communication device	WO00/54530	AU,BR,CA,CN,EP,ID,IL,IN,KR, MX,SG,US
(168) Method and apparatus for supervising the performance of a quick paging channel in a dual event slotted paging system	WO00/57662		

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PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
Qualcomm *20	(169) Reservation Multiple Access	WO00/57663	CN,EP,HK,KR,US
	(170) Handoff control in an asynchronous CDMA system	WO00/57664	CN,EP,KR,US
	(171) Method and Apparatus for Determining the Position of a Cellular Telephone	WO00/59257	AU,BR,CA,CN,EP,ID,IL,IN,KR, MX,SG,VN
	(172) Channel Estimation in a CDMA Wireless Communication System	WO00/60762	BR,CA,CN,DE,EP,FR,GB,KR,US
	(173) Method and system for detecting in-band jammers in a spread spectrum wireless base station	WO00/62437	
	(174) Interleaver and deinterleaver for use in a diversity transmission communication system	WO00/64073	
	(175) Method and apparatus for processing a punctured pilot channel	WO00/65749	
	(176) Method and Apparatus for Transmitting the Sync Channel Message in a Multi-Carrier Communication System	WO00/65798	
	(177) Callback Queuing of Calls from Wireless to Wireline Telecommunications Network in Case of Wireline Congestion	WO00/65813	CA,CN,EP,HK,IN,MX

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PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
Qualcomm *20	(178) Low delay decoding	WO00/67383	BR,CN,EP,KR,US
	(179) Estimation Method, Receiver and Decoder, of Channel Conditions in Wireless Communications	WO00/67439	BR,CN,EP,KR,,US
	(180) Multipulse Interpolative Coding of Transition Speech Frames	WO00/68935	
	(181) System and method for providing an accurate estimation of received signal interference for use in wireless communications systems	WO00/69090	BR,CN,EP,HK,KR,TW,US
	(182) System and method for reducing dropped calls in a wireless communications network	WO00/69197	
	(183) Amplitude and phase estimation method in a wireless communication system	WO00/70773	AU,BR,CA,CN,EP,HK,ID,IN,KR,MX,NO,RU,SG,UA,US
	(184) Method and apparatus for efficient candidate frequency search while initiating a handoff in a code division multiple access communication system	WO00/70902	
	(185) Method and apparatus for scheduling wake-up time in a CDMA mobile station	WO00/72615	
(186) Method for Allocating a Channel According to a Channel Condition Indicator	WO00/72621		



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PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
Qualcomm *20	(196) Method and apparatus for using frame energy metrics to improve rate determination	WO00/77995	AU,BR,CA,CN,EP,HK,IN,KR,MX,SG,US
	(197) Method and Apparatus for Controlling Transmission Power in a CDMA Communication System	WO00/79700	
	(198) Method and apparatus for supervising a potentially gated signal in a wireless communication system	WO00/79711	
	(199) Method and System for Monitoring Traffic on a Code Division Multiple Access Repeater	WO00/79821	
	(200) SIR Threshold in a Closed Loop Power Control System	WO01/01603	
	(201) Dynamic control of search duration in a wireless communication device	WO01/03321	
	(202) Method and Apparatus for Determining a Reverse Link Transmission Rate in a Wireless Communication System	WO01/03357	
	(203) System and method for edge of coverage detection in a wireless communication device	WO01/03464	
	(204) Method and apparatus for securely transmitting distributed rand for use in mobile station authentication	WO01/05091	



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PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
Qualcomm *20	(205) Method and apparatus for avoiding data loss during a PPP renegotiation on a Um interface	WO01/05175	AU,BR,CA,CN,EP,HK,IL,IN,KR, MX,RU,TW,US
	(206) Independent Synchronization of PPP Links on Um and Rm Interfaces	WO01/05176	AU,BR,CA,CN,EP,HK,IL,IN,KR, MX,RU,SG
	(207) Selectively framing and unframing PPP packets depending on negotiated options on the Um and Rm interfaces	WO01/05177	
	(208) Method and Apparatus for Maintaining a Target Bit Rate in a Speech Coder	WO01/06490	
	(209) Method and apparatus for providing feedback from decoder to encoder to improve performance in a predictive speech coder under frame erasure conditions	WO01/06491	
	(210) Method and apparatus for subsampling phase spectrum information	WO01/06492	
	(211) Spectral Magnitude Quantization for a Speech Coder	WO01/06493	
	(212) Method and apparatus for identifying frequency bands to compute linear phase shifts between frame prototypes in a speech coder	WO01/06494	

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PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
Qualcomm *20	(213) Method and Apparatus for Interleaving Line Spectral Information Quantization Methods in a Speech Coder	WO01/06495	BR,CN,EP,HK,KR,US  CA,CN,EP,HK,KR,TW     AU,BR,CA,CN,EP,HK,ID,IN,KR,MX,NO,RU,SG,TW,UA,US
	(214) CDMA multiple access interference cancellation using signal estimation	WO01/06664	
	(215) Method and apparatus for reducing frame error rate	WO01/08323	
	(216) Method and Apparatus for Controlling Transmission Gated Communication System	WO01/08324	
	(217) Method and apparatus for estimating reverse link loading in a wireless communication system	WO01/08325	
	(218) Method and Apparatus for Sequentially Synchronized Network	WO01/08344	
	(219) Mobile station supervision of the forward dedicated control channel when in the discontinuous transmission mode	WO01/08439	
	(220) Method and apparatus for multiple band voltage controlled oscillator with noise immunity	WO01/10025	
	(221) Method and system for controlling transmission energy in a variable rate gated communication system	WO01/10056	

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PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
Qualcomm *20	(222) Cell Broadcast in a Hybrid GSM/CDMA Network	WO01/10146	AU,CA,CN,EP,HK,KR,MX,SG          AU,BR,CA,CN,EP,HK,ID,IL,KR, MX,NO,RU,SG,UA,US          BR,CN,EP,HK,KR,US
	(223) System for tracking base stations in a wireless communication network	WO01/10161	
	(224) System and Method for Restricting Mobility of Cellular Telephones	WO01/10162	
	(225) Method and apparatus for determining the closed loop power control set point in a wireless packet data communication system	WO01/11800	
	(226) Method and apparatus for generating a message authentication code	WO01/11818	
	(227) Method and System for Performing a Handoff in a Wireless Communication System, Such as a Hard Handoff	WO01/11914	
	(228) Method and apparatus for coherent demodulation in communication system employing a potentially gated pilot signal	WO01/13533	
	(229) System and method for identifying user zone using broadcast addressed notification messages	WO01/13670	
	(230) Network Based Muting of a Cellular Telephone	WO01/13671	

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PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
Qualcomm * <sup>20</sup>	(231) Estimating Interference in a Communication System	WO01/15328	AU,BR,CA,CN,EP,HK,ID,IL,IN,JP,KR,MX,NO,RU,SG,TW,US
	(232) Adaptive Channel Estimation in a Wireless Communication System	WO01/15332	BR,CN,EP,HK,KR,TW,US
	(233) Method and Apparatus Using a Multi-Carrier Forward Link in a Wireless Communication System	WO01/15481	
	(234) A method and apparatus for generating multiple bits of a pseudonoise sequence with each clock pulse by computing the bits in parallel	WO01/16699	
	(235) Method and apparatus for beamforming in a wireless communication system	WO01/17131	
	(236) Method and apparatus for detecting zero rate frames in a communications system	WO01/17158	
	(237) Method and apparatus for remote activation of wireless device features using short message services (SMS)	WO01/17297	
	(238) Methods for Efficient Early Protocol Detection	WO01/19027	
	(239) System and method for automatically determining when to answer incoming packet data calls in a wireless communication network	WO01/19099	AU,CA,CN,IL,IN,KR,US

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PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
Qualcomm *20	(240) Method and system for initiating idle handoff in a wireless communications system	WO01/19121	AU,BR,CA,CN,EP,HK,ID,IN,KR,MX,NO,RU,SG,UA,US
	(241) System and method for selectively blocking or dropping calls in a telecommunications network	WO01/19124	
	(242) System and method for accurately predicting signal to interference and noise ratio to improve communications system performance	WO01/20789	
	(243) Method and Apparatus for Overlaying Two CDMA Systems on the Same Frequency Bandwidth	WO01/20817	
	(244) System and method for synchronizing base stations in cellular and PCS networks	WO01/20818	
	(245) Method and apparatus for rotating a phase of a modulated signal	WO01/20866	
	(246) Radio link protocol frame sorting mechanism for dynamic capacity wireless data channels	WO01/20874	
	(247) System and Method for Persistence-Vector-Based Modification of Usage Rates	WO01/24004	
	(248) System and method for persistence-vector-based rate assignment	WO01/24005	

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PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
Qualcomm *20	(249) Wireless communication system with base station beam sweeping	WO01/24385	CN,EP,HK,KR,TW,US       BR,CN,EP,HK,KR,TW,US
	(250) Method and apparatus for reverse link loading estimation	WO01/24404	
	(251) Method and apparatus for encrypting transmissions in a communication system	WO01/24436	
	(252) Method and system for querying attributes in a cellular communications system	WO01/24557	
	(253) Signaling Data Link for GSM-CDMA Air Interface	WO01/24567	
	(254) Closed-Loop Resource Allocation in a High Speed Wireless Communications Network	WO01/24568	
	(255) Candidate system search and soft handoff between frequencies in a multi-carrier mobile communication system	WO01/26248	
	(256) Associating dial numbers with call origination schemes	WO01/26402	
	(257) Base station beam sweeping method and apparatus using multiple rotating antennas	WO01/28036	
	(258) Full-Duplex Transceiver with Distributed Duplexing Function	WO01/28114	

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PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
Qualcomm *20	(259) Method and apparatus for minimizing total transmission energy in a communication system by using channel quality	WO01/28127	
	(260) Method and apparatus for improving cell life of sequential counters stored in non-volatile memory	WO01/29839	AU,CA,CN,EP,HK,IN,KR,MX,US
	(261) Multi-mode communications system with efficient oscillator synchronization	WO01/29980	AU,BR,CA,CN,EP,HK,ID,IL,IN,KR,MX,SG,US
	(262) System and method for rapidly accessing and storing contact information based on use of a communications device	WO01/31509	
	(263) Non stationary sectorized antenna	WO01/31742	
	(264) Method and apparatus for efficient data transmission control in a wireless voice-over-data communication system	WO01/31887	
	(265) Method and Apparatus for Determining the Position Location Using Reduced Number of GPS Satellites and Synchronized and Unsynchronized Base Stations	WO01/33302	
	(266) Synchronized Pilot Reference Transmission for a Wireless Communication System	WO01/33744	

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PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
Qualcomm * <sup>20</sup>	(267) Random number generation for encrypting cellular communications	WO01/33766	
	(268) Method and apparatus for performing handoff in a high speed communication system	WO01/33871	
	(269) Method and apparatus for providing mobility within a network	WO01/33893	
	(270) Method for monitoring transmission quality	WO01/35546	
	(271) Method and apparatus for efficient irregular synchronization of a stream cipher	WO01/35572	
	(272) Radio link protocol enhancements to reduce setup time for data calls	WO01/35580	
	(273) Method and Apparatus for Re-Synchronization of a Stream Cipher during Handoff	WO01/35681	
	(274) Non-bandlimiting antenna sharing method and apparatus for base stations	WO01/35684	
	(275) Method and apparatus for a voice controlled foreign language translation device	WO01/39036	
	(276) Method and apparatus for a pilot search using a matched filter	WO01/39388	AU,BR,CL,EP,HK,KR,TW,US



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PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
Qualcomm *20	(277) Method and apparatus for acquiring emergency service in a mobile radio communication system	WO01/39532	CN,EP,HK,IN,KR,US    AU,CA,CN,EP,HK,ID,IN,KR,US S
	(278) Method and apparatus for rotating the phase of a complex PSK signal	WO01/41386	
	(279) Method and apparatus for authentication in a wireless telecommunications system	WO01/41470	
	(280) System and method for the detection of service from alternate wireless communication systems	WO01/43487	
	(281) Method of authenticating anonymous users while reducing potential for "middleman" fraud	WO01/46787	
	(282) Method and apparatus for performing search acquisition in a multi-carrier communication system	WO01/47136	
	(283) Time synchronization in a cellular network device	WO01/47220	
	(284) System and method for enhancing call waiting functionality via voice recognition	WO01/47225	
	(285) Mobile Terminal and Point of Attachment to an IP Network	WO01/47296	
	(286) Improved soft handoff algorithm and wireless communication system for third generation CDMA systems	WO01/49061	

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PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
Qualcomm *20	(287) Method and apparatus for requesting point-to-point protocol (PPP) instances from a packet data services network	WO01/50783	
	(288) Hybrid Cellular Network System and Communications Method	WO01/50795	
	(289) Method and Apparatus for Supporting Adaptive Multi-Rate (AMR) Data in a CDMA Communication System	WO01/52467	
	(290) Method for avoiding PPP time-outs during IPCP negotiations	WO01/52499	
	(291) System and method for connecting home entertainment and computer devices using a local CDMA-based network	WO01/52534	
	(292) Base station synchronization for handover in a hybrid GSM/CDMA network	WO01/52567	
	(293) Method and Apparatus for Testing Wireless Communication Channels	WO01/52568	
	(294) Method and Wireless System for Terminating a Dormant Mode in a Packet Data Session	WO01/52574	
	(295) System for allocating resources in a communication system	WO01/52588	

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PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
Qualcomm *20	(296) Method for Performing Radio Resource Level Registration in a Wireless Communication System	WO01/52589	
	(297) Method and apparatus for achieving crypto-synchronization in a packet data communication system	WO01/54343	
	(298) System and method for time-based information management in a wireless communication device	WO01/54381	
	(299) Auto name lookup	WO01/54385	
	(300) Wireless communications receiver employing quick paging channel symbols and carrier signal to interference ratios to facilitate detection of a primary paging channel	WO01/54430	
	(301) Efficient system and method for facilitating quick paging channel demodulation via an efficient offline searcher in a wireless communications system	WO01/54432	
	(302) Wireless communications receiver employing quick paging channel symbols	WO01/54445	
	(303) PN generators for spread spectrum communications systems	WO01/56172	

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PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
Qualcomm *20	(304) Multi-link transmission of data over a cellular network	WO01/56190	
	(305) Method and apparatus for channel optimization during point-to-point protocol (PPP) session requests	WO01/56232	
	(306) System and method for using an IP address as a wireless unit identifier	WO01/56254	
	(307) System and method for modularizing the functionality of an electronic device	WO01/58039	
	(308) Method and apparatus for reducing radio link supervision time in a high data rate system	WO01/58045	
	(309) Method and apparatus for supervising transmit power in a high data rate system	WO01/58046	
	(310) Method and apparatus for providing configurable layers and protocols in a communications system	WO01/58108	
	(311) System for transmitting and receiving short message service (SMS) messages	WO01/58179	
	(312) Multipath doppler adjusted frequency tracking loop	WO01/59937	
	(313) Multiple band wireless telephone with multiple antennas	WO01/59938	

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PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
Qualcomm *20	(314) A method and apparatus for selecting among calling options in a wireless communication device	WO01/60097	
	(315) A method and apparatus for maximizing standby time in remote stations configured to receive broadcast data burst messages	WO01/60104	
	(316) Method and apparatus for generating pilot strength measurement messages	WO01/60106	
	(317) Method and Apparatus for Power Control of Multiple Channels in a Wireless Communication System	WO01/61884	
	(318) DSP with dual-MAC processor and dual-MAC coprocessor	WO01/63379	
	(319) Closed-loop multimode mixed-domain linear prediction (MDLP) speech coder	WO01/65544	
	(320) Method and apparatus for computing soft decision input metrics to a turbo decoder	WO01/67617	
	(321) Velocity-estimation-based gain tables	WO01/67631	
	(322) Intersystem base station handover	WO01/67788	

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PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
Qualcomm *20	(323) Method and apparatus for combined soft-decision based interference cancellation and decoding	WO01/69873	
	(324) High efficiency, high performance communications system employing multi-carrier modulation	WO01/71928	
	(325) Slotted mode decoder state metric initialization	WO01/76080	
	(326) Efficient searching by a remote unit in a slotted mode communication system	WO01/76081	
	(327) Fast acquisition of a pilot signal in a wireless communication device	WO01/76087	
	(328) Symbol combiner synchronization after a jump to a new time alignment	WO01/76089	
	(329) Method and apparatus for controlling transmissions of a communications system	WO01/76098	
	(330) Method and Apparatus for Measuring and Reporting Channel State Information in a High Efficiency, High Performance Communications System	WO01/76110	
	(331) Method and apparatus for a mobile station application to identify specified events	WO01/76177	

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PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
Qualcomm *20	(332) Method and apparatus for notifying a mobile station application of specified events	WO01/76178	
	(333) Method and apparatus for servicing specified events by a mobile station application	WO01/76179	
	(334) Method and apparatus for a mobile station application to receive and transmit raw packetized data	WO01/76180	
	(335) Method and apparatus for a mobile station application to identify specified status messages	WO01/76279	
	(336) Prioritization of searching by a remote unit in a wireless communication system	WO01/76311	
	(337) Efficient detection of general paging messages in poor signal to noise environments	WO01/76312	
	(338) Reacquisition and handoff in a slotted mode communication system	WO01/76313	
	(339) A method for coding in a telecommunications system	WO01/78293	
	(340) Handoff Method for Digital Base Stations with Different Spectral Capabilities	WO01/78440	
	(341) Method and apparatus for adaptive transmission control in a high data rate communication system	WO01/80475	

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PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
Qualcomm *20	(342) A method and an apparatus for a quick retransmission of signals in a communication system	WO01/80477	
	(343) Frame erasure compensation method in a variable rate speech coder	WO01/82289	
	(344) Method and apparatus for predictively quantizing voiced speech	WO01/82293	
	(345) Improved Radio Frequency Coverage of an Enclosed Region by Arrangement of Transceivers Within the Region	WO01/82505	
	(346) Method and apparatus for a rate control in a high data rate communication system	WO01/82521	
	(347) System and Method for Extracting, Decoding, and Utilizing Hidden Data Embedded in Audio Signals	WO01/82554	
	(348) Generation of keyed integer permutations for message authentication codes	WO01/84772	
	(349) A method and an apparatus for providing both voice services and data services in a High Data Rate communication system	WO01/86837	
	(350) Decoding method and apparatus	WO01/89095	



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PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
Qualcomm *20	(351) A method and an apparatus for improving stability and capacity in CDMA medium data rate systems	WO01/89099	
	(352) Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	WO01/89162	
	(353) Method and Apparatus for Transmission Rate Modification of Communication Channels	WO01/89257	
	(354) Method and Apparatus for Soft Handoff in a CDMA Communication System	WO01/91338	
	(355) Method and apparatus for puncturing code symbols in a communications system	WO01/93431	
	(356) Method and Apparatus for Puncturing Code Symbols in a Communications System	WO01/95500	
	(357) Method and apparatus for recovery of particular BITS of a received frame	WO01/95501	
	(358) Method and apparatus for improved forward link power control while in soft handoff	WO01/95521	
	(359) Method and apparatus for demodulating signals processed in a transmit diversity mode	WO01/97400	

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PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
Qualcomm *20	(360) Method and apparatus for forwarding messages among multiple radio networks	WO01/97545	
	(361) Reliability of Vias and Diagnosis by E-Beam Probing	WO01/98788	
	(362) Method and apparatus for adaptive power control in a wireless voice and data communication system	WO01/99303	
	(363) Method and apparatus for adaptive rate selection in a communication system	WO01/99385	
	(364) Improved Diversity Coverage	WO01/99467	
	(365) System, method, and apparatus for access channel traffic management	WO02/01810	
	(366) Method and apparatus for tracking the phase of a quasi-periodic signal	WO02/03381	
	(367) System and Method for DTX Frame Detection	WO02/03588	
	(368) Method and apparatus for beam switching in a wireless communication system	WO02/03721	
	(369) Method and apparatus for secure identity authentication with audible tones	WO02/05078	

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PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
Qualcomm *20	(370) Method and apparatus for proportionately multiplexing data streams onto one data stream	WO02/05466	
	(371) Method and apparatus for carrying packetized voice and data in wireless communication networks	WO02/05575	
	(372) Method and Apparatus for Reducing Code Phase Search Space	WO02/06847	
	(373) Multi-state power control mechanism for a wireless communication system	WO02/07340	
	(374) Maximum distance block coding scheme	WO02/07372	
	(375) Method and Apparatus for Broadcasting Position Location Data in a Wireless Communication System	WO02/07458	
	(376) Method and Apparatus for Performing Idle Mode Reacquisition and Handoff in an Asynchronous Communication System	WO02/07459	
	(377) Method and apparatus for combined puncturing and repeating of code symbols in a communications system	WO02/09294	
	(378) Method and apparatus for processing a modulated signal using an equalizer and a rake receiver	WO02/09305	

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PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
Qualcomm *20	(379) Page monitoring method and apparatus	WO02/09306	
	(380) Method, Apparatus and System for Signal Prediction	WO02/12913	
	(381) Control of Receiver Immunity to Interference by Controlling Linearity	WO02/13402	
	(382) Method and Apparatus for Base Station and Mobile Station Time Calibration	WO02/13411	
	(383) Method and apparatus for adaptive linear equalization for WALSH covered modulation	WO02/15502	
	(384) A method and an apparatus for granting use of a session of a packet data transmission standard designated by an identifier	WO02/15512	
	(385) Method and apparatus for using non-symmetric speech coders to produce non-symmetric links in a wireless communication system	WO02/17500	
	(386) Method and apparatus for providing real-time packetized voice and data services over a wireless communication network	WO02/17592	
	(387) Method and Apparatus for Time-Division Power Assignments in a Wireless Communication System	WO02/19563	

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PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
Qualcomm *20	(388) Method and apparatus for delayed frame detection in third generation radio link protocol	WO02/19604	
	(389) Method and Apparatus for Gated ACK/NAK Channel in a Communication System	WO02/19605	
	(390) Method and Apparatus for Wireless Video Communication	WO02/19660	
	(391) Data Buffer Structure for Asynchronously Received Physical Channels in a CDMA System	WO02/21715	
	(392) Method and Apparatus for Providing a Reference Signal from Time Division Multiplexed Pilot Data	WO02/21716	
	(393) Method and Apparatus for Processing a Physical Channel with Partial Transport Format Information	WO02/21729	
	(394) Dual-edge M/N Counter	WO02/23725	
	(395) Method and Apparatus for High Data Rate Transmission in a Wireless Communication System	WO02/23745	
	(396) Transfer of Captured Data Via Wireless Data link	WO02/23856	
	(397) Paging Mode Selection Based on Channel Quality	WO02/23937	

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PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
Qualcomm *20	(398) Method and Apparatus for Reducing Transmission Overhead in a Communication System	WO02/25898	
	(399) Method and Apparatus for Encoding of Linear Block Codes	WO02/27939	
	(400) Method and Apparatus for Processing Paging Indicator BITS Transmitted on a Quick Paging Channel	WO02/27958	
	(401) Method and Apparatus for Efficient Walsh Covering and Summing of Signals in a Communication System	WO02/27959	
	(402) Assignment and Deassignment of CDMA Second Finger	WO02/27960	
	(403) Method and Apparatus for Generating PN Sequences at Arbitrary Phases	WO02/27961	
	(404) Methods and apparatus for allocation of power to base station channels	WO02/27967	
	(405) Method and Apparatus for Power Control in a Wireless Communication System	WO02/27968	
	(406) Method and Apparatus for Determining Available Transmit Power in a Wireless Communication System	WO02/27969	

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PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
Qualcomm *20	(407) Method and Apparatus for Efficient Processing of Signal in a Communication System	WO02/29979	SMV
	(408) Communication System Method and Apparatus	WO02/29980	
	(409) Data Buffer Structure for Physical and Transport Channels in a CDMA System	WO02/30000	
	(410) Method and apparatus for reducing power consumption of a decoder in a communication system	WO02/30004	
	(411) GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	WO02/31526	
	(412) Simplified Quality Indicator Bit Test Procedures	WO02/31987	
	(413) Method and Apparatus for Measuring Timing of Signals Received from Multiple Base Stations in a CDMA Communication System	WO02/32184	
	(414) Method and Apparatus for High Performance Low Bit-Rate Coding of Unvoiced Speech	WO02/33695	
	(415) Method and Apparatus for Canceling Pilot Interference in a CDMA Communication System	WO02/33840	
(416) Bi-Directional Vector Rotator	WO02/33924		

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PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
Qualcomm *20	(417) Technique for Reducing Average Power Consumption in a Wireless Communications Device	WO02/33989	
	(418) A Method and Apparatus for Controlling Registration Activity	WO02/33994	
	(419) Method and Apparatus for Performing Reverse Rate Matching in a CDMA System	WO02/37698	
	(420) Method and Apparatus for Adaptive Transmission Control in a High Data Rate Communication System	WO02/37890	
	(421) System for Direct Sequence Spreading	WO02/39611	
	(422) Pseudorandom Dither for Frequency Synthesis Noise	WO89/06009	
	(423) High Resolution Phase to Sine Amplitude Conversion	WO89/06838	
	(424) Power-of-Two Length Pseudo-Noise Sequence Generator With Fast Offset Adjustment	WO93/20630	
	(425) System and Method for Orthogonal Spread Spectrum Sequence Generation in Variable Data Rate Systems	WO95/03652	
	(426) Method for Handling Unrecognized Commands in a Wireless Environment	WO95/14345	



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PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
Qualcomm *20	(427) Method for Providing a Voice Request in a Wireless Environment	WO95/14357	
	(428) Data Communication Using a Dual Mode Radiotelephone	WO95/14359	
	(429) Method and Apparatus of Providing Audio Feedback over a Digital Channel	WO95/22875	AT,AAU,BE,BR,CA,CH,CL,CN,DE,DK,EP,ES,FI,FR,GB,GR,HK, ID,IE,IN,IT,KR,LT,LU,MC,MX,NL,PT,RU,SE,SI,US,VN
	(430) Method and Apparatus for Automatic Gain Control in a Digital Receiver	WO95/30274	AU,BR,CA,CL,CN,EP,FI,HK, ID,IL,IN,KR,MX,MY,RU,SG,TW,US,VN,ZA
	(431) Method and Apparatus for Automatic Gain Control and DC Offset Cancellation in Quadrature Receiver	WO95/30275	AT,AU,BE,BR,CA,CH,CL,CN,DE,DK,EP,ES,FI,FR,GB,GR,HK, ID,IE,IL,IN,IT,KR,LI,LT,LU,MC, MX,MY,NL,PT,RU,SE,SG,SI, TW,US,VN,ZA
	(432) Airborne Radiotelephone Communications System	WO96/02093	AU,BR,CA,CN,EP,FI,HK,KR, MX,RU,SG,US
	(433) Airborne Radiotelephone Communications System.	WO96/02094	CN,US

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PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
Qualcomm *20	(434) System and Method for Simulating Interference Received by Subscriber Units in a Spread Spectrum Communication Network	WO96/02987	
	(435) Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	WO96/05592	AU,BR,CA,CN,EP,FI,HK,KR,MX,SG,VN
	(436) Multiple Frequency Communication Device	WO96/10871	
	(437) Method for Power Saving in a Cellular Radiotelephone Apparatus	WO96/11556	AU,BR,CA,CN,EP,FI,KR,MX,RU,SG
	(438) Method and Apparatus for Increasing Receiver Immunity to Interference	WO96/19048	AR,AU,CA,CL,CN,EP,FI,HK,ID,IL,IN,KR,MX,MY,NO,RU,SG,TW,US,VN,ZA
	(439) Dual-Mode FM/CDMA Communication System	WO96/20540	AR,CL,ID,IL,IN,MY,TW,US,ZA,AU,BR,CA,CN,EP,FI,HK,KR,MX,RU,SG,VN
	(440) Method and System for Providing a Charging Indication to a Mobile Radio Station	WO96/24226	
	(441) A Multi-User Communication System Architecture with Distributed Receivers	WO96/31960	AU,BR,CA,CN,EP,FI,HK,IN,KR,RU
	(442) Method and Apparatus for System Determination in a Multi-Mode Subscriber Station	WO97/05753	

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PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
Qualcomm *20	(443) Communication System Using Repeated Data Selection	WO97/08853	AU,EA,EP,HK,IE,IL,IN,KR,MX,TW,US,ZA
	(444) Method and System for Over-the-Air (OTA) Service Programming	WO97/14258	AU,BR,CA,EP,HK,IL,KR,MX,RU,SG,UA,US
	(445) Method and Apparatus for Searching an Excitation Codebook in a Code Excited Linear Prediction (CELP) Coder	WO98/05030	AU,BR,CA,CN,EP,FI,HK,IL,JP,KR,MX,SG
	(446) Method and Apparatus for Performing Decoding of Codes at Variable Data Rates	WO98/11670	CA,EP,HK,KR,MX,US
	(447) Method and Apparatus for Performing Distributed Forward Power Control	WO98/11677	CA,CN,EP,HK,IL,KRMX
	(448) Method and Apparatus for Detecting Bad Data Packets Received by a Mobile Telephone Using Decoded Speech Parameters	WO98/13941	CA,EP,HK,KR,MX,US
	(449) Method and Apparatus for Detecting Facsimile Transmission	WO98/21879	CA,CL,EA,EP,IL,IN,KR,NO,SG,TW,US,ZA
	(450) Method and Apparatus for Adjusting Thresholds and Measurements of Received Signals by Anticipating Power Control Commands Yet to be Executed	WO98/23044	
	(451) Phase Shift Encoded Subchannel	WO98/26519	CA,CN,EP,KR,TW,US,ZA

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PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
Qualcomm *20	(452) Collision Avoidance in a Half-Duplex Communication System	WO98/31139	CN,EP,HK,KR
	(453) Method and Apparatus for Transmitting and Receiving Concatenated Code Data	WO98/32231	BR,CA,CN,EP,HK,KR,MX,US
	(454) Method and Apparatus for Performing Mobile Assisted Handoff Between Communication Systems	WO98/32262	AU,BR,CA,CL,CN,EA,EP,HK,IL,JP,KR,MX,NZ,SG,TW,UA,US,ZA
	(455) High-Data-Rate Supplemental Channel for CDMA Telecommunications System	WO98/32263	CA,CL,CN,EA,EP,HK,IL,IN,JP,KR,MX,TR,TW,US,ZA
	(456) Method and Apparatus for Providing Authentication Security in a Wireless Communication System	WO98/32306	AU,BR,CA,CN,EA,EP,HK,IL,KR,MX,NZ,US,VN
	(457) Method and Apparatus for Performing Soft Hand-off in a Wireless Communication System	WO98/33288	AR,AU,BR,CA,CL,CN,EP,FI,HK,ID,IL,IN,KR,MX,MYMNO,RU,SG,TW,US,VN,ZA
	(458) Method and Apparatus for Satellite Positioning System Based Time Measurement	WO98/34164	
	(459) Method and Apparatus for Using State Determination to Control Functional Elements in Digital Telephone Systems	WO98/34354	CA,CN,EP,HK,IN,KR,MX,TW,ZA

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PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
Qualcomm *20	(460) Pilot Based Transmit Power Control	WO98/34356	AU,BR,CA,CN,EA,EP,HK,ID,IL,IN,KR,MY,TW,ZA
	(461) Method and Apparatus for Forward Link Rate Scheduling	WO98/35514	CA,CN,EP,HK,IL,KR,MX,US,ZA
	(462) A System for Exchanging Asynchronous Data over a Synchronous Communication Interface Between a Communication Device and an External Accessory	WO98/35517	
	(463) A Method of and Apparatus for Controlling Handoff in a Communication System	WO98/35525	CN,EP,HK,KR
	(464) Method of and Apparatus for Merging Neighbor Lists in a CDMA Mobile Telephone System	WO98/36588	CN,EP,KR
	(465) A Power Control Subsystem	WO98/36606	CN,EP,HK,KR
	(466) Method of and Apparatus for Avoiding Lost Communication with a Mobile Station	WO98/36607	CN,EP,HK,KR
	(467) A Wireless Communication Device and Method	WO98/39938	AU,BR,CA,CN,EP,HK,IL,KR,MX,NO,RU,SG
	(468) Method of and Apparatus for Encrypting Signals for Transmission	WO98/40984	BR,CA,CN,EP,FI,HK,IL,KR,MX,RU
(469) List Output Viterbi Decoding with CRC Outer Code for Multi-Rate Signal	WO98/43360	BR,CA,AN,EP,FI,HK,KR,MX,SG	

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PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
Qualcomm *20	(470) A Method of and Apparatus for Processing Variable Rate Data for Transmission in a Fixed Rate Transmission Medium	WO98/43374	KR
	(471) A Method of and System for Synchronously Communicating Data to a Network Having a Reference Clock Signal	WO98/44671	
	(472) Method of and Apparatus for Scheduling Data Transmissions in a Communication Network	WO98/45966	CN,EP,HK,KR,TW,ZA
	(473) Method of and Apparatus for Controlling Transmission Power in a Communication System	WO98/49785	AU,BR,CA,CN,EP,HK,ID,IL,KR, MX,NO,RU,SG,TW,UA,ZA
	(474) A Cellular Telephone System and a Method of Conducting an Inter-System Soft Handoff	WO98/49858	CN,EP,HK,KR
	(475) A Method of and Apparatus for Tracking Propagation Delay Between a Base Station and a Subscriber Unit	WO98/49859	
	(476) A Method of and Apparatus for Detecting and Preventing Message Collisions in a Communication System	WO98/52299	CN,EP,HK,KR,TW,ZA
	(477) Method and Apparatus for Providing Error Protection for Over The Air File Transfer	WO98/54866	AU,CA,CN,EP,HK,KR,MX,US

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PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
Qualcomm *20	(478) Reduced Peak-To-Average Amplitude Multichannel Link	WO98/58457	CN,EP,HK,KR,US
	(479) Sequence Numbering Range Extending Method and System for Selecting Repeat Transmission Protocols	WO98/58469	AU,BR,CA,CN,EP,FI,HK,ID,KR, MX,NO,RU,SG,UA
	(480) A Method of and Apparatus for Transmission Data at a High Data Rate in a Plurality of Low Data Rate Channels	WO98/58472	CN,EP,KR,MY,TW
	(481) Transmission of Digital Signals by Orthogonal Frequency Division Multiplexing	WO98/58496	AR,AU,BR,CA,CL,CN,EP,FI,H K,IL,IN,KR,MX,MY,NO,RU,SG ,TW,ZA
	(482) Method and Apparatus for Power Adaptation Control in Closed-Loop Communications	WO98/59432	CN,EP,HK,KR,MY,US,ZA
	(483) A Method and System for Conducting Wireless Communications	WO98/59449	CN,EP,HK,KR
	(484) A Method of and Apparatus for Selecting Base Stations to Communicate with a Remote Station	WO99/04593	AU,BR,CA,CL,CN,EP,FI,HK,H U,ID,IL,KR,MX,MY,NO,NZ,PL, RU,SG,TW,UA,ZA
	(485) Method and Apparatus for Data Transmission Using Time Gated Frequency Division Duplexing	WO99/05801	AR,AU,CA,CN,EP,HK,IN,KR,M Y,TW,US,ZA
	(486) System and method for preventing replay attacks in wireless communication	WO99/07178	CN,EP,KR,US

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PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
Qualcomm *20	(487) A Method of and Apparatus for Controlling Transmission Signal Power of Communication Signals in a Communication System	WO99/08399	CN,EP,HK,KR,TW
	(488) Method and Apparatus for Determining the Rate of Received Data in a Variable Rate Communication System	WO99/08425	CN,EP,HK,KR,TW,US,ZA
	(489) Method and apparatus for interference cancellation for a high data rate user in a CDMA system	WO99/09674	
	(490) Method and Apparatus for Reverse Link Rate Scheduling	WO99/09779	CN,EP,HK,KR,TW,US
	(491) A Method of and Apparatus for Selecting Cyclic Redundancy Check Generators in a Concatenated Code	WO99/10984	CN,EP,HK,KR,TW,ZA
	(492) Method and Apparatus for Processing Power Control Signals in a CDMA Mobile Telephone System	WO99/10985	CN,EP,HK,KR,US
	(493) Channel Gain Modification System and Method for Noise Reduction in Voice Communication	WO99/12155	CN,EP,HK,KR
	(494) Apparatus and Method for Supporting Analog Fax Calls in a Tandem Configuration	WO99/12342	CN,EP,HK,KR,TW,US



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PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
Qualcomm *20	(495) Method and Apparatus for Providing Orthogonal Spot Beams, Sectors, and Picocells	WO99/13605	AR,AU,BR,CA,CN,CZ,EP,FI,HK,HU,ID,IL,IN,KR,MX,NO,NZ,PL,RU,SG,TR,TW,UA,US,VN,ZA
	(496) Method and System for Changing Forward Traffic Channel Power Allocation During Soft Handoff	WO99/13675	AU,BR,CA,CN,EP,FI,HK,ID,IL,KR,MX,NO,RU,SG,TW,UA,US,ZA
	(497) Accurate Open Loop Power Control in a Code Division Multiple Access Communication System	WO99/14869	AR,AT,AU,BG,BR,CA,CH,CL,CN,CZ,DE,DK,EP,ES,FI,FR,GB,HK,HU,ID,IL,IN,KR,MX,NO,NZ,PL,PT,RO,RU,SE,SG,SI,SK,TR,TW,UA,US,VN,ZA
	(498) A Method of and Apparatus for Transmitting Data in a Multiple Carrier System	WO99/14878	AU,BR,CA,CN,EP,HK,ID,IL,JP,KR,MX,NO,RU,SG,TW,UA
	(499) Channel Structure for Communication Systems	WO99/14975	AU,BR,CA,CL,CN,EP,HK,ID,KR,MX,NO,RU,SG,TW,UA,US
	(500) Mobile Station Assisted Timing Synchronization in a CDMA Communication System	WO99/16183	AR,AT,AU,BG,BR,CA,CH,CL,CN,CZ,DE,DK,EP,ES,FI,FR,GB,HK,HU,ID,IL,IN,KR,MX,NO,NZ,PL,PT,RO,RU,SE,SG,SI,SK,TR,TW,UA,US,VN,ZA

**Attachment 2 List of Essential Industrial Property Rights for ARIB STD-T64 Ver.2.00**

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
Qualcomm *20	(501) Method and Apparatus for Generating Encryption Stream Ciphers	WO99/16208	EP,HK,KR
	(502) Method for Acquiring an Alternate Communication System	WO99/17475	AU,BR,CA,EA,EP,IL,KR,SG
	(503) System and Method for Optimized Power Control	WO99/19995	AU,CA,CN,EP,HK,KR,US
	(504) Apparatus and Method for Selecting Power Control Modes	WO99/20005	AU,CA,CN,EP,HK,KR
	(505) Method and Apparatus for Performing Idle Handoff in a Multiple Access Communication System	WO99/20074	CN,HK,KR,US
	(506) Method and Apparatus for Generating Encryption Stream Ciphers	WO99/22484	AR,US,EP,HK,KR,,KR,CN,TW
	(507) Method and Apparatus for High Rate Packet Data Transmission	WO99/23844	AR,AU,BR,CA,CL,CN,CZ,EP,HK,HU,ID,IL,IN,KR,MX,MY,NO,NZ,PL,PT,RO,RU,SG,UA,US,VN,ZA
	(508) Rapid signal acquisition and synchronization for access transmissions	WO99/25079	AU,BR,CA,CN,EP,HK,KR,MX,RU,US
	(509) Method and Apparatus for Time Efficient Retransmission Using Symbol Accumulation	WO99/26371	AU,CA,CN,EP,FI,HK,IL,KR,MX,NO,SG,TW,US
	(510) Method and Apparatus for Performing Handoff in a CDMA System Through the Use of Repeaters	WO99/27747	AU,CA,CN,EP,FI,HK,IL,KR,MX,NO,SG,VN

**Attachment 2 List of Essential Industrial Property Rights for ARIB STD-T64 Ver.2.00**

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
Qualcomm *20	(511) Method and Apparatus for Increasing Receiver Immunity to Interference	WO99/29047	AR,AU,CA,CL,CN,EP,FI,HK,ID,IL,IN,KR,MX,MY,NO,RU,SG,TW,US,VN,ZA
	(512) Method and Apparatus for Providing Ternary Power Control in a Communication System	WO99/29048	CN,EP,HK,KR,TW,US
	(513) Method and apparatus for obtaining transmit diversity using switched antennas	WO99/29050	AU,CA,CN,EP,FI,HK,IL,JP,KR,NO,SG,US
	(514) Spread Spectrum Multipath Demodulator for a Multichannel Communication System	WO99/30433	BR,CA,CN,DE,EP,FI,FR,GBHK,IT,KR,SE
	(515) Method and Apparatus for Providing a Dual Purpose Connection for Interface with an Antenna or Connection Interface	WO99/31769	AU,BR,CA,CL,CN,DE,EP,ES,FR,GB,GR,HK,IL,IN,IT,KR,SE,US
	(516) Quadrature Modulator and Demodulator	WO99/35736	AU,BR,CA,CN,EP,HK,ID,IN,KR,MX,RU,US
	(517) Noise Cancellation Circuit and Quadrature Downconverter	WO99/35746	AU,BR,CA,CH,CN,DE,EP,ES,FI,FR,GB,HK,IL,IT,KR,LI,MX,NO,RU,SE,SG,US,
	(518) Mobile Station Assisted Timing Synchronization in a CDMA Communication System	WO99/37037	
	(519) System, Method and Computer Program Product for Eliminating Unnecessary Retransmissions	WO99/37071	

**Attachment 2 List of Essential Industrial Property Rights for ARIB STD-T64 Ver.2.00**

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
Qualcomm *20	(520) Method and Apparatus for Performing Mobile Station Assisted Hard Handoff Using Off Line Searching	WO99/38347	US,CN,EP,HK,KR,TW,US
	(521) Method and Apparatus for Reducing Messaging Traffic in a Wireless Communication System	WO99/39538	AU,CA,CL,CN,EP,HK,IL,KR,MY,TW,US
	(522) System and Method for Noise-Compensated Speech Recognition	WO99/40571	CN,EP,HK,KR,TW,US
	(523) Method and Apparatus for Performing Rate Determination Using Orthogonal Rate-Dependent Walsh Covering Codes	WO99/41847	
	(524) Method and System for Performing a Handoff in a Wireless Communication system, such as a Hard Handoff	WO99/41934	
	(525) Power Supply Assembly for Portable Phone	WO99/43095	AR,AU,BR,CA,CL,EP,HK,ID,IN,KR,MX,MY,RU,TW,US
	(526) Synchronization of forward link base station power levels during handoff between base station sectors in a mobile radio communication system	WO99/43100	AU,BR,CA,CN,EP,FI,ID,IL,KR,MX,NO,SG,US
	(527) Forward Link Power Control in a Cellular System Using NT/IO Values	WO99/43101	AU,BR,CA,CN,EP,FI,ID,IL,KR,MX,NO,SG,US

**Attachment 2 List of Essential Industrial Property Rights for ARIB STD-T64 Ver.2.00**

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
Qualcomm *20	(528) Method and system for transmit gating in a wireless communication system	WO99/43105	
	(529) Configuration of a Base Station Transceiver System in a Mobile Communication System	WO99/43174	BR,CA,CN,EP,HK,JP,KR
	(530) A method and apparatus for maximizing standby time using a quick paging channel	WO99/43180	
	(531) System and Method for Use of Feature Codes in a Wireless Communication Device	WO99/46911	AU,CA,CN,EP,HK,IL,KR,TW
	(532) Method for Generating a Broadcast Challenge Value	WO99/46942	CN,EP,HK,KR,US
	(533) System and Method for Determining the Position of a Wireless CDMA Transceiver	WO99/47943	AR,AU,BR,CA,CL,CN,EP,FI,HK,IL,IN,KR,MX,MY,NO,NZ, RU,SG,TW,UA,US,VN,ZA
	(534) Multiple Bus Architecture in a Digital Signal Processor	WO99/47999	AR,AU,CA,CL,EP,HK,KR,MY,ZA
	(535) Adaptive Reacquisition Time in a Slotted Paging Environment	WO99/48221	AU,BR,CA,CN,EP,HK,IL,KR,MX, RU,SG,TW,US
(536) System and Method for the Automatic Prepending of Digits in a Wireless Communication Device	WO99/48266	AU,BR,CA,CN,EP,HK,IL,IN,KR,MX, RU,US	

**Attachment 2 List of Essential Industrial Property Rights for ARIB STD-T64 Ver.2.00**

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
Qualcomm * <sup>20</sup>	(537) Method and System for Providing an Estimate of the Signal Strength of a Received Signal	WO99/49588	CN,EP,HK,KR,US
	(538) Apparatus for connecting communications devices to a mobile communications network using a mobile telephone	WO99/49682	CN,EP,HK,KR
	(539) Signal Combining Method	WO99/50973	CN,EP,HK,KR
	(540) Method and Apparatus for Coordinating Transmission of Short Messages with Hard Handoff Searches in a Wireless Communications System	WO99/57849	AU,BR,CA,CN,EP,FI,HK,IL,KR, MX,NO,SG,TW,US
	(541) Method and Apparatus for Supporting Expanded Electronic Serial Number (EESN) Format	WO99/59361	CN,EP,HK,KR,TW,US
	(542) Method for Detecting Delayed Data Frames in a Transport Function	WO99/60761	AU,BR,CA,CN,EP,FI,HK,ID,IN, KR,MX,NO,NZ,RU,SG,UA,US
	(543) Cellular communication system with common channel soft handoff and associated method	WO99/67972	CN,EP,KR,US

\*<sup>10</sup>: These patents are applied to the part defined by ARIB STD-T64 Ver.1.00.

\*<sup>20</sup>: These patents are applied to the revised part of ARIB STD-T64 Ver.2.00.

\*<sup>22</sup>: These patents are applied to the revised part of ARIB STD-T64 Ver.2.20.

**Attachment 2 List of Essential Industrial Property Rights for ARIB STD-T64 Ver.2.30**

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
DENSO CORPORATION * <sup>23</sup>	A comprehensive confirmation form has been submitted with regard to ARIB STD-T64 Ver.2.30.		
Motorola Incorporated * <sup>23</sup>	A comprehensive confirmation form has been submitted with regard to ARIB STD-T64 Ver.2.30.		
Nokia Industrial Co. Ltd. * <sup>23</sup>	A comprehensive confirmation form has been submitted with regard to ARIB STD-T64 Ver.2.30.		
Qualcomm Incorporated * <sup>23</sup>	A comprehensive confirmation form has been submitted with regard to ARIB STD-T64 Ver.2.30.		

**Attachment 2 List of Essential Industrial Property Rights for ARIB STD-T64 Ver.1.00**

特許出願人	発明の名称	出願番号等	備考（出願国名）
ノキアコーポレーション* <sup>10</sup>	テレコミュニケーションシステムにおけるなりすましの防止	特表 2003-518821	WO
	アドレス取得	特表 2003-520535	WO
	アクセスネットワークにおける移動エージェントの選択	特許 3373501	WO
	マルチメディア・メッセージ・サービス実施方法、マルチメディア・メッセージ・システム、マルチメディア・メッセージ・システムのサーバ、およびマルチメディア端末	特表 2003-513541	WO
ノキアテレコミュニケーションズオサケユキチュア* <sup>10</sup>	ハンドオーバー方法及びセルラー通信システム	特表平 10-507040	WO
	セルラー無線ネットワークの位置更新方法	特表平 9-507005	WO
	マルチサービスネットワークにおける情報伝達方法	特表平 05-506138	WO
	ワイヤレス通信システムにおいて全形式のメッセージに対して同じプロトコルを使用してメッセージを配送する方法	特表 2002-518957	WO
ノキアネットワークスオサケユキチュア* <sup>10</sup>	テレコミュニケーションネットワークにおける同時コールの遂行	特表 2002-525934	WO
	パケット無線ネットワークのIP移動機構	特表 2002-525995	WO
	データ送信のサービスクオリティを制限する方法及びシステム	特表 2002-533030	WO
	パケット無線ネットワークにおけるQoSマッピング情報の搬送	特表 2002-534923	WO



**Attachment 2 List of Essential Industrial Property Rights for ARIB STD-T64 Ver.1.00**

特許出願人	発明の名称	出願番号等	備考（出願国名）
ノキアネットワークス オサケユキチュア * <sup>10</sup>	アクセスネットワークにおける I Pルーティング最適化	特表 2002-539688	WO
	メッセージを送出する方法	特表 2002-542548	WO
ノキアモバイルフォーンズ リミテッド * <sup>10</sup>	パケットデータ送信をスケジューリングする方法	特開平 11-4236	BR CN EP JP KR US
NOKIA NETWORKS OY * <sup>10</sup>	ACCESS CONTEXT MANAGEMENT FOR MACRO-LEVEL MOBILITY MANAGEMENT REGISTRATION IN AN ACCESS NETWORK	WO 01/05171	WO
NOKIA CORPORATION * <sup>10</sup>	SETTING MODE OF COMMUNICATION	WO 03/032587	WO
	METHOD FOR FORMING A MULTIMEDIA STREAMING SESSION	WO 02/11398	WO
	MULTIMEDIA MESSAGING METHOD AND SYSTEM	WO 02/063849	WO
	APPARATUS, AND ASSOCIATED METHOD, FOR EFFECTUATING A DATA SERVICE DESIGNATED BY A SERVICE DELIVERY MODE	WO/IB02/02068	WO

\*<sup>10</sup>: These patents are applied to the part defined by ARIB STD-T64 Ver.1.00.

\*<sup>23</sup>: These patents are applied to the revised part of ARIB STD-T64 Ver.2.30.

**Attachment 2 List of Essential Industrial Property Rights for ARIB STD-T64 Ver.2.40**

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
DENSO CORPORATION * <sup>24</sup>	A comprehensive confirmation form has been submitted with regard to ARIB STD-T64 Ver.2.40.		
Motorola Incorporated * <sup>24</sup>	A comprehensive confirmation form has been submitted with regard to ARIB STD-T64 Ver.2.40.		
Qualcomm Incorporated * <sup>24</sup>	A comprehensive confirmation form has been submitted with regard to ARIB STD-T64 Ver.2.40.		

\*<sup>24</sup>: These patents are applied to the revised part of ARIB STD-T64 Ver.2.40.

**Attachment 2 List of Essential Industrial Property Rights for ARIB STD-T64 Ver.3.00**

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
Motorola Incorporated *30	A comprehensive confirmation form has been submitted with regard to ARIB STD-T64 Ver.3.00		
Qualcomm Incorporated *30	A comprehensive confirmation form has been submitted with regard to ARIB STD-T64 Ver.3.00		



**Attachment 2 List of Essential Industrial Property Rights for ARIB STD-T64 Ver.2.40**

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. 〔Applied in Japan〕	REMARKS
ノキア テレコミュニケーションズ オサケユキチュア *24	不連続送信の電力制御方法	特表 2000-507433	China, European Patent Convention, Finland, Japan, United States
ノキア ネットワークス オサケユキチュア *24	インテリジェントネットワークの交換ポイント及び制御ポイント	特表 2001-506474	China P.R., European Patent Convention, Finland, Japan, United States
	移動通信システムにおける加入者識別情報の伝送	特表平 11-510030	Australia, Canada, China, European Patent Convention, Finland, India, Japan, Philippines, Thailand, United States
	移動通信システム用のアクセス制御方法	特許 3464492	Canada, China P.R., European Patent Convention, Finland, Hong Kong, Japan, United States, South Africa
	インテリジェントネットワークにおけるメッセージトラフィックの削減	特表 2001-510305	Canada, China P.R., European Patent Convention, Finland, India, Japan, Malaysia, United States, South Africa

**Attachment 2 List of Essential Industrial Property Rights for ARIB STD-T64 Ver.2.40**

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
ノキア モービルフォーンズ リミテッド *24	移動機器を動作させる方法、移動機器および電子データ記憶モジュール	特開 2001-16634	Brazil, China P.R., European Patent Convention, Hong Kong, India, Japan, Korea South, United States
	基地局から移動局へ制御情報を送信する方法及び基地局からの制御情報を移動局で受信する方法	特開平 11-252009	Austria, Brazil, China, Germany, European Patent Convention, Spain, Finland, France, Great Britain, India, Italy, Japan, Korea, Netherlands, United States
	基地局から端末装置へ情報を送信する方法、基地局、及び端末装置	特許 3163070	China P.R., European Patent Convention, Finland, Japan, United States
	実時間サービスにおけるヘッダ圧縮	特表 2002-537716	China, European Patent Convention, Finland, Hong Kong, Japan, United States
	電気通信システムにおける無線リンクプロトコルの動的構成方法及び装置	特開平 10-341488	Brazil, China P.R., European Patent Convention, Japan, Korea South, United States
ユニヴェルシテ ドゥ シェルブルック *24	音声の効率的な符号化のためのスペクトルパラメータの予測分割マトリックス量子化	特表平 11-503531	Australia, Brazil, Canada, China P.R., European Patent Convention, Japan, United States

**Attachment 2 List of Essential Industrial Property Rights for ARIB STD-T64 Ver.2.40**

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
NOKIA CORPORATION *24	TECHNIQUES FOR PERFORMING UMTS-AUTHENTICATION USING SIP (SESSION INITIATION PROTOCOL) MESSAGES	WO 02/011469	Australia, Brazil, Canada, China P.R., European Patent Convention, India, Japan, Korea South, Mexico, Russian Federation, United States
	OUTING OF CALL MADE TO SUBSCRIBER	WO 02/054686	Japan, United States
	IP BASED SERVICE ARCHITECTURE	WO 02/069616	Canada, China P.R., European Patent Convention, Japan, Korea South, United States
	METHOD FOR INDICATING A UE THAT IT MUST REGISTER	WO 02/091780	Australia, Brazil, Patent Cooperation Treaty, Canada, European Patent Convention, India, Japan, Mexico, Russian Federation, United States, South Africa
	SUBSCRIBER REGISTRATIONS IN A MOBILE COMMUNICATION SYSTEM	WO 02/091786	Australia, Brazil, Canada, China P.R., European Patent Convention, Great Britain, India, Japan, Korea South, Mexico, Patent Cooperation Treaty

**Attachment 2 List of Essential Industrial Property Rights for ARIB STD-T64 Ver.2.40**

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
NOKIA CORPORATION *24	CHARGING IN TELECOMMUNICATIONS NETWORK	WO 02/098099	Australia, Brazil, Canada, China P.R., European Patent Convention, Japan, Korea South, Mexico, United States, Patent Cooperation Treaty, South Africa
	COMMUNICATION SYSTEM AND METHOD PROVIDING A MODE SELECTION PROCEDURE	WO 02/15625	Brazil, Canada, China P.R., European Patent Convention, Japan, Korea South, United States
	IMPROVED METHOD AND ARRANGEMENT FOR TRANSFERRING INFORMATION IN A PACKET RADIO SERVICE	WO 02/17573	Canada, China P.R., Japan, Korea South, Singapore, United States, South Africa
	MONITORING CONNECTION TO USER TERMINAL IN TELECOMMUNICATIONS SYSTEM	WO 02/17664	Australia, Brazil, Canada, China P.R., European Patent Convention, Finland, India, Japan, Korea South, Mexico, Russian Federation, United States
	TECHNIQUES FOR HIDING NETWORK ELEMENT NAMES AND ADDRESSES	WO 02/32050	Brazil, Canada, China P.R., European Patent Convention, Japan, Korea South, United States
	METHOD AND SYSTEM FOR CHANGING A SUBSCRIPTION	WO 03/061236	Patent Cooperation Treaty



**Attachment 2 List of Essential Industrial Property Rights for ARIB STD-T64 Ver.2.40**

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
NOKIA CORPORATION * <sup>24</sup>	<p>A METHOD OF REGISTERING AND DEREGISTERING A USER</p> <p>METHOD AND SYSTEM FOR RE-AUTHENTICATION IN IP MULTIMEDIA CORE NETWORK SYSTEM (IMS)</p> <p>METHOD AND COMMUNICATION SYSTEM FOR CONTROLLING SECURITY ASSOCIATION LIFETIME</p>	<p>WO 03/081937</p> <p>WO 03/084257</p> <p>WO 03/096603</p>	<p>United States, Patent Cooperation Treaty</p> <p>United States, Patent Cooperation Treaty</p> <p>United States, Patent Cooperation Treaty</p>

\*<sup>24</sup>: These patents are applied to the revised part of ARIB STD-T64 Ver.2.40.

\*<sup>30</sup>: These patents are applied to the revised part of ARIB STD-T64 Ver.3.00.

**Attachment 2 List of Essential Industrial Property Rights for ARIB STD-T64 Ver.3.10**

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
DENSO Corporation * <sup>31</sup>	A comprehensive confirmation form has been submitted with regard to ARIB STD-T64 Ver.3.10.		
Motorola Incorporated * <sup>31</sup>	A comprehensive confirmation form has been submitted with regard to ARIB STD-T64 Ver.3.10.		
Qualcomm Incorporated * <sup>31</sup>	A comprehensive confirmation form has been submitted with regard to ARIB STD-T64 Ver.3.10.		

**Attachment 2 List of Essential Industrial Property Rights for ARIB STD-T64 Ver.3.10**

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO.	REMARKS
Mitsubishi Electric Corporation * <sup>31</sup>	音声復号化装置及び音声符号化・復号化装置	REGISTRATION NO. JP 2,659,605	Country: JP (This is identical to that previously submitted relating to ARIB STD-T64 Ver.1.00.)
	音声符号化装置	REGISTRATION NO. JP 2,905,155	Country: JP (This is identical to that previously submitted relating to ARIB STD-T64 Ver.1.00.)
	音声判別装置及び音声判別方法	REGISTRATION NO. JP 3,328,642	Country: JP (This is identical to that previously submitted relating to ARIB STD-T64 Ver.1.00.)

\*<sup>31</sup>: These patents are applied to the revised part of ARIB STD-T64 Ver.3.10.

**Attachment 2 List of Essential Industrial Property Rights for ARIB STD-T64 Ver.3.20**

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
Motorola Incorporated * <sup>32</sup>	A comprehensive confirmation form has been submitted with regard to ARIB STD-T64 Ver.3.20.		
Mitsubishi Electric Corporation * <sup>32</sup>	A comprehensive confirmation form has been submitted with regard to ARIB STD-T64 Ver.3.20.		
Qualcomm Incorporated * <sup>32</sup>	A comprehensive confirmation form has been submitted with regard to ARIB STD-T64 Ver.3.20.		

\*<sup>32</sup>: These patents are applied to the revised part of ARIB STD-T64 Ver.3.20.

**Attachment 2 List of Essential Industrial Property Rights for ARIB STD-T64 Ver.3.30**

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
Motorola Incorporated* <sup>33</sup>	A comprehensive confirmation form has been submitted with regard to ARIB STD-T64 Ver.3.30.		
Qualcomm Incorporated* <sup>33</sup>	A comprehensive confirmation form has been submitted with regard to ARIB STD-T64 Ver.3.30.		

**Attachment 2 List of Essential Industrial Property Rights for ARIB STD-T64 Ver.3.20**

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO.	REMARKS
三菱電機株 * <sup>32</sup>	広帯域音声復元装置及び広帯域音声復元方法及び音声伝送システム及び音声伝送方法  広帯域音声復元装置及び広帯域音声復元方法及び音声伝送システム及び音声伝送方法	日本特許第3,483,958号  日本特許第3,560,964号	JP  JP

\*<sup>32</sup>: These patents are applied to the revised part of ARIB STD-T64 Ver.3.20.

\*<sup>33</sup>: These patents are applied to the revised part of ARIB STD-T64 Ver.3.30.

**Attachment 2 List of Essential Industrial Property Rights for ARIB STD-T64 Ver.3.40**

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO. [Applied in Japan]	REMARKS
Motorola Incorporated * <sup>34</sup>	A comprehensive confirmation form has been submitted with regard to ARIB STD-T64 Ver.3.40.		
Qualcomm Incorporated * <sup>34</sup>	A comprehensive confirmation form has been submitted with regard to ARIB STD-T64 Ver.3.40.		

**Attachment 2 List of Essential Industrial Property Rights for ARIB STD-T64 Ver.3.00**

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO.	REMARKS
NTT DoCoMo Inc. *30	CDMA 移動通信システムにおける無線チャネル構成方法	特許第 3224346 号	



**Attachment 2 List of Essential Industrial Property Rights for ARIB STD-T64 Ver.3.30**

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO.	REMARKS
ノキア モービル フォーンズ リミテッド *33	希望のQoSレベルを維持するための電力制御の実施	特表 2003-524315	European Patent Convention, Japan, United States
ノキア ネットワークス オサケ ユキチュア *33	移動ステーションへの接続を制御する方法	特表 2002-510917	Belgium, Brazil, China P.R., Germany, European Patent Convention, Spain, Finland, France, Great Britain, Italy, Japan, Netherlands, Sweden, United States
	パケット無線ネットワークにおけるルーティング領域の更新	特表 2001-508971	Canada, China P.R., European Patent Convention, Finland, Hong Kong, India, Japan, Philippines, United States
ノキア コーポレーション *33	WCDMAコミュニケーションにおけるリンク適応を行なうべきかどうかを決める方法	特表 2004-537228	Brazil, Canada, China P.R., European Patent Convention, Japan, Korea South, Singapore, United States, South Africa

**Attachment 2 List of Essential Industrial Property Rights for ARIB STD-T64 Ver.3.30**

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO.	REMARKS
NOKIA CORPORATION *33	CHANNEL ALLOCATION WITH CODE DIVISION MULTIPLEXING FOR 1XEV-DV SYSTEM	WO 03/026180	Patent Cooperation Treaty , United States
NOKIA CORPORATION , NOKIA INC. *33	RLP LOGICAL LAYER OF A COMMUNICATION STATION	WO 03/090391	Patent Cooperation Treaty , United States
NOKIA CORPORATION *33	APPARATUS, AND ASSOCIATED METHOD, FOR PERFORMING REVERSE-LINK TRAFFIC MEASUREMENTS IN A RADIO COMMUNICATION SYSTEM	WO 03/105498	Patent Cooperation Treaty , United States
NOKIA CORPORATION , NOKIA, INC. *33	APPARATUS, AND ASSOCIATED METHOD, FOR PERFORMING PACKET ZONE TIMING OPERATIONS AT A MOBILE NODE OPERABLE IN A PACKET RADIO COMMUNICATION SYSTEM	WO 04/064292	Patent Cooperation Treaty , United States
	APPARATUS AND AN ASSOCIATED METHOD FOR FACILITATING COMMUNICATIONS IN A RADIO COMMUNICATION SYSTEM THAT PROVIDES FOR DATA COMMUNICATIONS AT MULTIPLE DATA RATES	WO 03/105381	Patent Cooperation Treaty



**Attachment 2 List of Essential Industrial Property Rights for ARIB STD-T64 Ver.2.00**

特許出願人 PATENT HOLDER	発明の名称 NAME OF PATENT	出願番号等 REGISTRATION NO./ APPLICATION NO.	備考（出願国名） REMARKS
KDDI CORPORATION *20	セルラーシステムにおける下り回線ハンドオーバー制御方法	特許3525738	Japan

\*20: These patents are applied to the revised part of ARIB STD-T64 Ver.2.00.

**Attachment 2 List of Essential Industrial Property Rights for ARIB STD-T64 Ver.4.00**

特許出願人 PATENT HOLDER	発明の名称 NAME OF PATENT	出願番号等 REGISTRATION NO./ APPLICATION NO.	備考 (出願国名) REMARKS
Motorola Incorporated *40	A comprehensive confirmation form has been submitted with regard to ARIB STD-T64 Ver.4.00.		
Qualcomm Incorporated *40	A comprehensive confirmation form has been submitted with regard to ARIB STD-T64 Ver.4.00.		

**Attachment 2 List of Essential Industrial Property Rights for ARIB STD-T64 Ver.4.00**

特許出願人 PATENT HOLDER	発明の名称 NAME OF PATENT	出願番号等 REGISTRATION NO./ APPLICATION NO.	備考（出願国名） REMARKS
ノキア コーポレーション *40	サーバからの要求メッセージが最大サイズを有する同期システムにおけるサーバ起動の同期方法	特表 2005-505990	CN, EP, ID, IN, KR, MY, RU, TW, US, WO, ZA
	異なるデータ記憶部にデータを記憶する手法に関して同期を取るための方法および装置	特表 2005-521946	CN, EP, ID, KR, RU, US, WO
	DS-CDMAセルラー電話のマルチキャスト通信	特開平 10-107770	DE, EP, FR, GB, KR, US
	通信システム及び方法	特表 2005-521335	US, BR, CA, CN, EP, GB, MX, WO
	無線通信システムにおけるQoS起動のためのトラフィッククラスサポートを提供する装置及び関連方法	特表 2006-509445	WO, US, CA, CN, EP, IN, KR, PH

**Attachment 2 List of Essential Industrial Property Rights for ARIB STD-T64 Ver.4.00**

特許出願人 PATENT HOLDER	発明の名称 NAME OF PATENT	出願番号等 REGISTRATION NO./ APPLICATION NO.	備考（出願国名） REMARKS
NOKIA CORPORATION *40	TECHNIQUES FOR UPDATING SECURITY-RELATED PARAMETERS FOR MOBILE STATIONS	WO 05/102017	WO
	QUALITY OF SERVICE SUPPORT AT AN INTERFACE BETWEEN MOBILE AND IP NETWORK	WO 05/015413	WO, US, AU, CN, EP, IN, KR
	APPARATUS, AND ASSOCIATED METHOD, FOR SELECTABLY EXTENDING A TIME PERIOD IN WHICH A MOBILE STATION IS OPERATED IN A NON-SLOTTED MODE	WO 05/006127	WO, US, MY, TW
	APPARATUS, AND ASSOCIATED METHOD, FOR STORING MULTIPLE SYNCHRONIZATION IDENTIFIER INFORMATION AT A MOBILE STATION OF A RADIO COMMUNICATION SYSTEM	WO 05/001605	WO, US, MY, TW
	APPARATUS AND ASSOCIATED METHOD, FOR FACILITATING LOCATION DETERMINATION OF A MOBILE STATION PURSUANT TO A LOCATION BASED APPLICATION	WO 05/034362	WO, KR, US
	METHOD AND APPARATUS FOR SWITCHING MOBILE STATION BETWEEN AUTONOMOUS AND SCHEDULED TRANSMISSIONS	WO 04/110081	AU, BR, CA, CN, EP, IN, KR, MX, RU, SG, US, WO, MY, TW
	METHOD, APPARATUS AND COMPUTER PROGRAM PRODUCT PROVIDING QUALITY OF SERVICE SUPPORT IN A WIRELESS COMMUNICATIONS SYSTEM	WO 05/089216	WO, US

**Attachment 2 List of Essential Industrial Property Rights for ARIB STD-T64 Ver.4.00**

特許出願人 PATENT HOLDER	発明の名称 NAME OF PATENT	出願番号等 REGISTRATION NO./ APPLICATION NO.	備考（出願国名） REMARKS
NOKIA CORPORATION *40	A COMMUNICATION SYSTEM	WO 04/075587	WO, US, CN, EP, ID, IN, SG
	REQUEST REDIRECTION HANDLING IN IMC	WO 04/086723	WO, US, CN, EP, IL, KR, NO, RU
	MULTIPLE REGISTRATION OF A SUBSCRIBER IN A MOBILE COMMUNICATION SYSTEM	WO 04/089022	WO, US, CN, EP, CA, GB, IN, KR, RU
	DISTRIBUTION OF A CHARGING IDENTIFIER IN PARTICULAR IN UMTS NETWORKS	WO 04/102943	WO, US, CN, EP, GB, MX, ZA
	REGISTRATIONS IN A COMMUNICATION SYSTEM	WO 04/102900	WO, US, EP, GB, BR, CA, IN, KR, NZ
	A METHOD FOR HANDLING SERVICE FAILURES	WO 05/039108	WO, EP, GB, TW
	COMMUNICATION SYSTEM AND METHOD PROVIDING A MODE SELECTION PROCEDURE	WO 02/15627	EP, WO, US

\*40: These patents are applied to the revised part of ARIB STD-T64 Ver.4.00.



## Attachment 2 List of Essential Industrial Property Rights for ARIB STD-T64 Ver.4.10

特許出願人 PATENT HOLDER	発明の名称 NAME OF PATENT	出願番号等 REGISTRATION NO./ APPLICATION NO.	備考 (出願国名) REMARKS
Motorola Incorporated * <sup>41</sup>	A comprehensive confirmation form has been submitted with regard to ARIB STD-T64 Ver.4.10.		
Qualcomm Incorporated * <sup>41</sup>	A comprehensive confirmation form has been submitted with regard to ARIB STD-T64 Ver.4.10.		
NOKIA CORPORATION * <sup>41</sup>	A comprehensive confirmation form has been submitted with regard to ARIB STD-T64 Ver.4.10.		

**Attachment 2 List of Essential Industrial Property Rights for ARIB STD-T64 Ver.4.10**

特許出願人 PATENT HOLDER	発明の名称 NAME OF PATENT	出願番号等 REGISTRATION NO./ APPLICATION NO.	備考（出願国名） REMARKS
NOKIA CORPORATION* <sup>41</sup>	INTEGRATED METHOD AND APPARATUS TO MANAGE MOBILE DEVICES AND SERVICES  METHOD AND APPARATUS FOR PROVIDING END-TO-END QUALITY OF SERVICE (QOS)	WO2006/0030261  WO2005/0076654	WO, US, MY, TH, TW  WO, EP, AU, IN, JP, KR, MY, TW, US

\*<sup>41</sup>: These patents are applied to the revised part of ARIB STD-T64 Ver.4.10.

**Attachment 2 List of Essential Industrial Property Rights for ARIB STD-T64 Ver.4.20**

特許出願人 PATENT HOLDER	発明の名称 NAME OF PATENT	出願番号等 REGISTRATION NO./ APPLICATION NO.	備考 (出願国名) REMARKS
Motorola Incorporated *42	A comprehensive confirmation form has been submitted with regard to ARIB STD-T64 Ver.4.20.	A comprehensive confirmation form has been submitted with regard to ARIB STD-T64 Ver.4.20.	
Qualcomm Incorporated *42	A comprehensive confirmation form has been submitted with regard to ARIB STD-T64 Ver.4.20.	A comprehensive confirmation form has been submitted with regard to ARIB STD-T64 Ver.4.20.	

IMT-2000 MC-CDMA SYSTEM標準規格（ARIB STD-T64 Ver.3.00）に係る必須の工業所有権(IPR)について

別表「第二号」

特許出願人	発明の名称	出願番号等	備考（出願国名）
(株)日立コミュニケーションテクノロジー *30	(1) 無線通信装置	特願 2004-295513	US, CN, KR

**IMT-2000 MC-CDMA SYSTEM 標準規格 (ARIB STD-T64 Ver.4.00) に係る必須の工業所有権(IPR)について**

別表「第二号」

特許出願人	発明の名称	出願番号等	備考 (出願国名)
(株)日立コミュニケーションテクノロジー *40	(2) 無線基地局及び無線通信システム	特願 2004-187223	US, CN
	(3) エリア管理システム	特願 2006-060667	US, CN

\*30: These patents are applied to the revised part of ARIB STD-T64 Ver.3.00.

\*40: These patents are applied to the revised part of ARIB STD-T64 Ver.4.00.

\*42: These patents are applied to the revised part of ARIB STD-T64 Ver.4.20.

## List of Essential Industrial Property Rights for ARIB STD-T64 Ver.4.30

## Attachment “No. 2”

特許出願人 PATENT HOLDER	発明の名称 NAME OF PATENT	出願番号等 REGISTRATION NO./ APPLICATION NO.	備考 (出願国名) REMARKS
Motorola Incorporated *43	A comprehensive confirmation form has been submitted with regard to ARIB STD-T64 Ver.4.30.		
Qualcomm Incorporated *43	A comprehensive confirmation form has been submitted with regard to ARIB STD-T64 Ver.4.30.		

**List of Essential Industrial Property Rights for ARIB STD-T64 Ver.4.30**

**Attachment “No. 2”**

特許出願人 PATENT HOLDER	発明の名称 NAME OF PATENT	出願番号等 REGISTRATION NO./ APPLICATION NO.	備考（出願国名） REMARKS
ノキア コーポレイション * <sup>43</sup>	スライド窓データ流制御式のデータ送信システム	特許第 3727066 号	JP, AT, AU, BE, CA, CN, DE, EP, ES, FI, FR, GB, IT, KR, NL, SE, SG, US, WO

\*<sup>43</sup>: These patents are applied to the revised part of ARIB STD-T64 Ver.4.30.

## List of Essential Industrial Property Rights for ARIB STD-T64 Ver.4.40

## Attachment “No. 2”

特許出願人 PATENT HOLDER	発明の名称 NAME OF PATENT	出願番号等 REGISTRATION NO./ APPLICATION NO.	備考 (出願国名) REMARKS
Motorola Incorporated * <sup>44</sup>	A comprehensive confirmation form has been submitted with regard to ARIB STD-T64 Ver.4.40.		
Qualcomm Incorporated * <sup>44</sup>	A comprehensive confirmation form has been submitted with regard to ARIB STD-T64 Ver.4.40.		

\*<sup>44</sup>: These patents are applied to the revised part of ARIB STD-T64 Ver.4.40.



**List of Essential Industrial Property Rights for ARIB STD-T64 Ver.4.50****Attachment “No. 2”**

特許出願人 PATENT HOLDER	発明の名称 NAME OF PATENT	出願番号等 REGISTRATION NO./ APPLICATION NO.	備考 (出願国名) REMARKS
Motorola Incorporated * <sup>45</sup>	A comprehensive confirmation form has been submitted with regard to ARIB STD-T64 Ver.4.50.		
Qualcomm Incorporated * <sup>45</sup>	A comprehensive confirmation form has been submitted with regard to ARIB STD-T64 Ver.4.50.		

## List of Essential Industrial Property Rights for ARIB STD-T64 Ver.4.50

### Attachment “No. 2”

特許出願人 PATENT HOLDER	発明の名称 NAME OF PATENT	出願番号等 REGISTRATION NO./ APPLICATION NO.	備考（出願国名） REMARKS
NOKIA CORPORATION *45	Method and apparatus for providing bootstrapping procedures in a communication network	PCT/IB2006/000272	WO, US, IN, MX, SG, ZA, EP, VN
	MULTI-CARRIER RADIO LINK PROTOCOL SUPERVISION IN A RADIO COMMUNICATION SYSTEM	WO2007/116280	WO, US, PK, TH,
	GBA IDENTITIES	PCT/IB2006/001505	WO, US, MY,TW, BR, CN, EP, IN, MX, SG, ZA, KP, VN
	S I Pにおけるコンテンツ・インダイレクションにおける使用のためにU R Iを伝送する方法及び装置	特表 2007-533185	WO, US, AU, BR, CN, EP, IN, KP, MX, RU, SG, ZA, CA,
	音声信号の効率的コーディングのための信号修正方法	特表 2005-513539	WO, US, AU, BR, CA, CN, EP, HK, IN, KP, MX, MY, NO, NZ, RU, ZA, CZ, FI, FR, DE, IT, NL, ES, CH, GB
	可変ビットレート通話符号化における線形予測パラメータの強力な予測ベクトル量子化方法と装置	特表 2006-510947	WO, US, BR, CA, CN, EP, HK, IN, KP, MX, MY, PH, RU, UA
	可変ビットレート広帯域通話符号化における利得量子化方法および装置	特表 2006-525533	WO, US, BR, CN, EP, HK, IN, KP, MY, RU, AT, FR, DE, NL, CH, GB
暗騒音存在時の音声を改善するための方法および装置	特表 2007-517249	WO, US, AU, BR, CA, CN, EP, IN, KP, MX, MY, RU, SG, TW, ZA, HK	

\*45: These patents are applied to the revised part of ARIB STD-T64 Ver.4.50.

**List of Essential Industrial Property Rights for ARIB STD-T64 Ver.4.60****Attachment “No. 2”**

特許出願人 PATENT HOLDER	発明の名称 NAME OF PATENT	出願番号等 REGISTRATION NO./ APPLICATION NO.	備考 (出願国名) REMARKS
Qualcomm Incorporated *46	A comprehensive confirmation form has been submitted with regard to ARIB STD-T64 Ver.4.60.		

**List of Essential Industrial Property Rights for ARIB STD-T64 Ver.1.00**

**Attachment “No. 2”**

特許出願人 PATENT HOLDER	発明の名称 NAME OF PATENT	出願番号等 REGISTRATION NO./ APPLICATION NO.	備考（出願国名） REMARKS
日本無線株式会社 * <sup>10</sup>	CDMA セルラー無線基地局	特許第 3422945	

List of Essential Industrial Property Rights for ARIB STD-T64 Ver.4.60

Attachment “No. 2”

特許出願人 PATENT HOLDER	発明の名称 NAME OF PATENT	出願番号等 REGISTRATION NO./ APPLICATION NO.	備考（出願国名） REMARKS
NOKIA CORPORATION *46	<p>METHOD AND APPARATUS FOR PROVIDING FAIR TRAFFIC SCHEDULING AMONG AGGREGATED INTERNET PROTOCOL FLOWS</p> <p>パケット無線ネットワークにおける移動ステーションの識別</p> <p>SYSTEM AND METHOD FOR DETERMINING WHEN A CSCF SHOULD ACT LIKE I-CSCF OR LIKE S-CSCF</p> <p>通信ネットワークのための共通課金用 I D</p> <p>移動ネットワークにおいてサービスのアドレス発見を提供するシステム及び方法</p> <p>SIGNALING FOR ADMINISTRATIVE DOMAIN CHANGE DURING LOCATION TRACKING</p> <p>METHOD AND APPARATUS FOR PROVIDING REVERSE ACTIVITY INFORMATION IN A MULTI-CARRIER COMMUNICATION SYSTEM</p>	<p>WO0056114</p> <p>特開 2006-5950</p> <p>WO0209365</p> <p>特許第 3904142 号</p> <p>特表 2003-520000</p> <p>WO2007/0010340</p> <p>WO 2007/020506</p>	<p>WO, US, EP</p> <p>WO, JP, US, EP, AT, BE, CN, DE, ES, FI, FR, GB, IT, NL, PT, SE</p> <p>WO, US, EP</p> <p>WO, JP, US, EP, AT, BE, CN, DE, ES, FR, GB, IT, NL, SE, TR</p> <p>WO, JP, US, EP, DE, FR, GB, IT</p> <p>WO, JP, US, MY, TW</p> <p>WO, JP, US, EP, BR, CN, IN, KR, MX, SG, TW, VN, ZA</p>

List of Essential Industrial Property Rights for ARIB STD-T64 Ver.4.60

Attachment “No. 2”

特許出願人 PATENT HOLDER	発明の名称 NAME OF PATENT	出願番号等 REGISTRATION NO./ APPLICATION NO.	備考（出願国名） REMARKS
NOKIA CORPORATION*46	METHOD AND APPARATUS FOR REFRESHING KEYS WITHIN A BOOTSTRAPPING ARCHITECTURE	WO 2007/034322	WO, JP, US, EP, CN, IN, KR, TH
	電話接続を追加情報で補う方法および装置	特表 2002-527951	WO, JP, US, EP, CN
	異種 I P ネットワークにおける認証のための装置および方法	特表 2007-508614	WO, JP, US EP, AU, CN, IN, KR
	通信方法及び通信システム	特表 2006-506012	WO, JP, US, EP, CN, KR
	SERVICE BASED BEARER CONTROL AND TRAFFIC FLOW TEMPLATE OPERATION WITH MOBILE IP	WO 2005/119982	WO, US, EP, IN
	A METHOD OF CONFIGURING A COMMUNICATION DEVICE	WO 2006/095269	WO, JP, US, EP, CN, IN, KR, MX, MY, SG, TW, VN, ZA
CDMA無線システム用可変ビットレート広帯域音声符号化時における効率のよい帯域内ディム・アンド・バースト (DIM-AND-BURST) シグナリングとハーフレートマックス処理のための方法および装置	特表 2005-532579	WO, JP, US, EP, AU, BR, CA, CN, HK, ID, IN, KR, MX, MY, RU	

## List of Essential Industrial Property Rights for ARIB STD-T64 Ver.4.60

### Attachment “No. 2”

特許出願人 PATENT HOLDER	発明の名称 NAME OF PATENT	出願番号等 REGISTRATION NO./ APPLICATION NO.	備考（出願国名） REMARKS
NOKIA CORPORATION *46	<p>ソース制御された可変ビットレート広帯域音声の符号化方法および装置</p> <p>適応マルチレート広帯域（AMR-WB）コーデックとマルチモード可変ビットレート広帯域（VMR-WB）コーデック間における相互運用方法</p> <p>音声コーデックにおける擬似高帯域信号の推定方法およびシステム</p> <p>音声復号における音声フレームのエラー隠蔽のための方法およびシステム</p>	<p>特表 2006-502426</p> <p>特表 2006-502427</p> <p>特表 2004-537739</p> <p>特表 2004-526173</p>	<p>WO, JP, US, BR, CA, CN, EG, HK, IN, KR, MY, PH, RU</p> <p>WO, JP, US, EP, BR, CA, CN, HK, ID, IN, KR, MY, PH, RU</p> <p>WO, JP, US, EP, BR, CA, CN, DE, DK, ES, FR, GB, IT, KR, NL, PT, SE, SG, TR, ZA</p> <p>WO, JP, US, EP, BR, CA, CH, CN, DE, ES, FR, GB, IT, KR, NL, PT, SE, SG, TR, ZA</p>

\*10: These patents are applied to the part defined by ARIB STD-T64 Ver.1.00.

\*46: These patents are applied to the revised part of ARIB STD-T64 Ver.4.60.

**List of Essential Industrial Property Rights for ARIB STD-T64 Ver.4.70****Attachment “No. 2”**

特許出願人 PATENT HOLDER	発明の名称 NAME OF PATENT	出願番号等 REGISTRATION NO./ APPLICATION NO.	備考 (出願国名) REMARKS
モトローラ株式会社 *47	A comprehensive confirmation form has been submitted with regard to ARIB STD-T64 Ver.4.70.		
QUALCOMM Incorporated *47	A comprehensive confirmation form has been submitted with regard to ARIB STD-T64 Ver.4.70.		



**List of Essential Industrial Property Rights for ARIB STD-T64 Ver.4.70**

**Attachment “No. 2”**

特許出願人 PATENT HOLDER	発明の名称 NAME OF PATENT	出願番号等 REGISTRATION NO./ APPLICATION NO.	備考（出願国名） REMARKS
(株)日立コミュニケーションテクノロジー *47	無線通信方式及び無線基地局集約装置  無線通信システムおよび端末  通信端末装置及び通信接続装置ならびにこれを用いた通信方法  通信接続装置及び通信端末ならびにこれを用いた通信方法	特願2007-078138  特願2007-044855  特許第3984965号  特許第3959402号	US  US  US, CN  US, CN
NOKIA CORPORATION *47	端末装置へ転送される電子情報のフィルタリング  METHOD AND DEVICE FOR LOW BIT RATE SPEECH CODING  SYSTEM AND METHOD FOR MULTIMEDIA STREAMING USING INTERLEAVED PACKETIZATION	特表 2003-515834  WO2006/048733  WO2006/038090	WO, US, JP, EP, BR, CN, DE, ES, FI, FR, GB, IT, KR, TR, ZA  WO, US, EP, AU, BR, XA, CN, HK, IN, KR, TW  WO, US, EP, CN, IN, TH, TW

\*47: These patents are applied to the revised part of ARIB STD-T64 Ver.4.70.

**List of Essential Industrial Property Rights for ARIB STD-T64 Ver.4.80****Attachment “No. 2”**

特許出願人 PATENT HOLDER	発明の名称 NAME OF PATENT	出願番号等 REGISTRATION NO./ APPLICATION NO.	備考 (出願国名) REMARKS
QUALCOMM Incorporated *48	A comprehensive confirmation form has been submitted with regard to ARIB STD-T64 Ver.4.80.		

**List of Essential Industrial Property Rights for ARIB STD-T64 Ver.1.00**

**Attachment “No. 2”**

特許出願人 PATENT HOLDER	発明の名称 NAME OF PATENT	出願番号等 REGISTRATION NO./ APPLICATION NO.	備考（出願国名） REMARKS
NOKIA CORPORATION *10	接続確立方法、加入者ターミナルユニット及び無線システム	特許第 4020967 号	WO, JP

List of Essential Industrial Property Rights for ARIB STD-T64 Ver.2.00

Attachment “No. 2”

特許出願人 PATENT HOLDER	発明の名称 NAME OF PATENT	出願番号等 REGISTRATION NO./ APPLICATION NO.	備考（出願国名） REMARKS
NTT ドコモ *20	インタリービング方法, インタリービング装置, 及びインタリーブパターン作成プログラムを記録した記憶媒体	特願平11-525965 特許第3347335号	US, CN, KR, CA, EP (DE, FR, GB, IT, SE)

List of Essential Industrial Property Rights for ARIB STD-T64 Ver.3.00

Attachment “No. 2”

特許出願人 PATENT HOLDER	発明の名称 NAME OF PATENT	出願番号等 REGISTRATION NO./ APPLICATION NO.	備考（出願国名） REMARKS
NTT ドコモ * <sup>30</sup>	移動通信システム  移動通信システムにおける基地局装置	特願平9-162750 特許第3323421号  特願平10-543752 特許第3884774号	US, EP (DE, GB, SE)  US, CN, KR, CA, EP (DE, FR, GB, IT, SE)

List of Essential Industrial Property Rights for ARIB STD-T64 Ver.3.30

Attachment “No. 2”

特許出願人 PATENT HOLDER	発明の名称 NAME OF PATENT	出願番号等 REGISTRATION NO./ APPLICATION NO.	備考（出願国名） REMARKS
NOKIA CORPORATION *33	肯定応答フィードバック方式を利用するパケット無線通信システムにおいてデータ・パケットの再送信を促進する装置およびその方法	特表 2007-531335	WO, US, JP

List of Essential Industrial Property Rights for ARIB STD-T64 Ver.3.40

Attachment “No. 2”

特許出願人 PATENT HOLDER	発明の名称 NAME OF PATENT	出願番号等 REGISTRATION NO./ APPLICATION NO.	備考（出願国名） REMARKS
NOKIA CORPORATION *34	無線通信システムにおけるサービス品質関連情報を選択する装置及び関連方法	特表 2007-503173	WO, US, JP

## List of Essential Industrial Property Rights for ARIB STD-T64 Ver.4.80

### Attachment “No. 2”

特許出願人 PATENT HOLDER	発明の名称 NAME OF PATENT	出願番号等 REGISTRATION NO./ APPLICATION NO.	備考（出願国名） REMARKS
NOKIA CORPORATION *48	マルチキャリアワイヤレスシステムのためのデータレート 制御信号の送信方法  強化チャネルインタリーブを提供する方法及び装置	特表 2009-502076  特表 2008-541534	TW, US, WO, CN, EP, IN, JP, MX, SG, ZA, KR, VN  MY, TW, US, WO, BR, CN, EP, IN, JP, MX, SG, ZA, KR, VN

\*10.: These patents are applied to the part defined by ARIB STD-T64 Ver.1.00.

\*20.: These patents are applied to the revised part of ARIB STD-T64 Ver.2.00.

\*30.: These patents are applied to the revised part of ARIB STD-T64 Ver.3.00.

\*33.: These patents are applied to the revised part of ARIB STD-T64 Ver.3.30.

\*34.: These patents are applied to the revised part of ARIB STD-T64 Ver.3.40.

\*48.: These patents are applied to the revised part of ARIB STD-T64 Ver.4.80.



**List of Essential Industrial Property Rights for ARIB STD-T64 Ver.4.90****Attachment “No. 2”**

特許出願人 PATENT HOLDER	発明の名称 NAME OF PATENT	出願番号等 REGISTRATION NO./ APPLICATION NO.	備考 (出願国名) REMARKS
モトローラ株式会社 *49	A comprehensive confirmation form has been submitted with regard to ARIB STD-T64 Ver.4.90.		
QUALCOMM Incorporated *49	A comprehensive confirmation form has been submitted with regard to ARIB STD-T64 Ver.4.90.		

List of Essential Industrial Property Rights for ARIB STD-T64 Ver.1.00

Attachment “No. 2”

特許出願人 PATENT HOLDER	発明の名称 NAME OF PATENT	出願番号等 REGISTRATION NO./ APPLICATION NO.	備考（出願国名） REMARKS
ユニバーシテ デ シャ ーブルク*10 *491	<p>会話の急速符号化のためのデプス第一代数コードブック</p> <p>スピーチ信号を高速符号化するための信号選択されたパルス振幅を備えた代数学的符号帳</p>	<p>特許 3160852</p> <p>特表平 10-513571</p>	<p>AR AU BR CA CN DE EP ES FR GB HK IN IT JP KR MX MY RU SE US WO ZA A license is available under this patent only for ACELP (IS-641) based speech codecs for the IMT-2000 MC-CDMA system.</p> <p>AR AU BR CA CN DE EP ES FI FR GB HK IN IT JP KR MX MY NO RU SE US WO ZA A license is available under this patent only for ACELP (IS-641) based speech codecs for the IMT-2000 MC-CDMA system.</p>
Universite de Sherbrooke *10 *491	Dynamic codebook for efficient speech coding based on algebraic codes	WO 91/13432	<p>AT BE CA CH DE DK EP ES FR GB GR IT LI LU NL SE US WO A license is available under this patent only for ACELP (IS-641) based speech codecs for the IMT-2000 MC-CDMA system.</p>

List of Essential Industrial Property Rights for ARIB STD-T64 Ver.1.00

Attachment “No. 2”

特許出願人 PATENT HOLDER	発明の名称 NAME OF PATENT	出願番号等 REGISTRATION NO./ APPLICATION NO.	備考（出願国名） REMARKS
ボイスラフト・インコーポレーテッド *10 *491	デジタル的にコード化されたスピーチを圧縮するための方法における改良	特許 2887286	CA DE EP FR GB IT JP US A license is available under this patent only for ACELP (IS-641) based speech codecs for the IMT-2000 MC-CDMA system.

**List of Essential Industrial Property Rights for ARIB STD-T64 Ver.1.30**

**Attachment “No. 2”**

特許出願人 PATENT HOLDER	発明の名称 NAME OF PATENT	出願番号等 REGISTRATION NO./ APPLICATION NO.	備考（出願国名） REMARKS
モトローラ・インコーポレ ーテッド *13 *492	異なるパワー・レベルでクイック・ページング・チャンネルを 送信する方法	特願 2000-587544	米国(USP6,138,034)他

List of Essential Industrial Property Rights for ARIB STD-T64 Ver.4.50

Attachment “No. 2”

特許出願人 PATENT HOLDER	発明の名称 NAME OF PATENT	出願番号等 REGISTRATION NO./ APPLICATION NO.	備考（出願国名） REMARKS
QUALCOMM Incorporated *45	<p>Synchronized Pilot Reference Transmission for a Wireless Communication System</p> <p>Method and wireless system for terminating a dormant mode in a packet data session</p> <p>Method and apparatus for requesting point-to-point protocol (PPP) instances from a packet data services network</p> <p>Method and apparatus for channel optimization during point-to-point protocol (PPP) session requests</p> <p>Reducing radio link supervision time in a high data rate system</p> <p>A method and apparatus for maximizing standby time in remote stations configured to receive broadcast databurst messages</p>	<p>JP2003-529971</p> <p>JP2003-524961</p> <p>JP2003-519994</p> <p>JP2003-521165</p> <p>JP2003-524965</p> <p>JP2003-536286</p>	<p>US7,289,473, US20080008136, BR, CN, DE, EP, ES, FI, FR, GB, HK, IT, KR, SE, WO</p> <p>US6,654,360, AU, BR, CA, CN, DE, EP, FI, FR, GB, HK, ID, IL, IN, IT, KR, MX, NO, RU, SE, SG, TW, UA, WO</p> <p>US7,190,687, US20060209751, AT, US, BE, BR, CA, CH, CN, DE, DK, EP, ES, FI, FR, GB, GR, HK, ID, IE, IL, IN, IT, KR, MX, NL, NO, NZ, PT, RU, SE, SG, TR, TW, UA, WO</p> <p>US7,197,017, US20070217365, AU, BR, CA, CN, EP, HK, ID, IL, IN, KR, MX, NO, NZ, RU, SG, TW, UA, WO</p> <p>US6,564,060, AU, BR, CA, CN, DE, EP, FI, FR, GB, HK, ID, IL, IN, KR, MX, NO, RU, SE, SG, TW, UA, WO</p> <p>US6,728,300, US6,977,957, US20060098718, BR, CN, DE EP, FR, GB, HK, KR, TW, WO</p>

List of Essential Industrial Property Rights for ARIB STD-T64 Ver.4.50

Attachment “No. 2”

特許出願人 PATENT HOLDER	発明の名称 NAME OF PATENT	出願番号等 REGISTRATION NO./ APPLICATION NO.	備考（出願国名） REMARKS
QUALCOMM Incorporated *45	Method and apparatus for supervising transmit power in a high data rate system	JP2003-522464	US6,377,814, US7,024,218, AU, BR, CA, CN, DE, EP, FI, FR, GB, HK, ID, IL, IN, IT, KR, MX, NO, RU, SE, SG, TW, UA, WO
	Method and apparatus for generating pilot strength measurement messages	JP2003-522506	US6,546,248, US6,728,538, AU, BR, CA, CN, EP, HK, ID, IL, IN, KR, MX, NO, RU, SG, TW, UA, WO
	Handoff method for digital base stations with different spectral capabilities	JP2003-530796	US6,535,739, US6,853,843, US7,151,933, US7,373,149, AU, BR, CA, CN, EP, HK, ID, IL, IN, KR, MX, NO, RU, SG, TW, UA, WO
	Method and apparatus for power control of multiple channels in a wireless communication system	JP2003-523689	US20010040880, AU, BE, BR, CA, CN, DE, EP, ES, FI, FR, GB, HK, ID, IE, IL, IN, IT, KR, MX, NL, NO, NO, RU, SE, SG, TW, UA, WO
	Method and apparatus for controlling transmit power of multiple channels in a CDMA communication system	JP4125599	US6,996,069, US20050208961, CN, EP, HK, IL, KR, MX, NO, RU, SG, TW, UA, WO

List of Essential Industrial Property Rights for ARIB STD-T64 Ver.4.50

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特許出願人 PATENT HOLDER	発明の名称 NAME OF PATENT	出願番号等 REGISTRATION NO./ APPLICATION NO.	備考（出願国名） REMARKS
QUALCOMM Incorporated *45	A method and an apparatus for a quick retransmission of signals in a communication system	JP2003-533078	US6,694,469, US7,127,654, US20070168825, AU, BE, BG, BR, CA, CN, CZ, DE, EP, ES, FI, FR, HK, HU, ID, IE, IL, IN, IT, KR, MX, NL, NO, PL, RO, RU, SE, SG, TW, UA, WO
	Method and apparatus for adaptive transmission control in a high data rate communication system	JP2003-531518	US7,088,701, BR, CN, DE, EP, ES, FI, FR, GB, HK, IT, KR, NL, SE, TW, WO
	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	JP2004-515932	US7,245,594, US20070064646, US20070263655, AU, BR, CA, CN, EP, HK, IN, ID, IL, KR, MX, NO, RU, SG, TW, UA, WO
	Method and apparatus for puncturing code symbols in a communications system	JP2004-501563	US6,690,734, US7,336,722, BR, CN, EP, HK, KR, TW, WO
	Method and apparatus for forwarding messages among multiple radio networks	JP2004-503967	US6,961,329, US20060148511, BR, CN, DE, EP, FR, GB, HK, IE, KR, TW, WO

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特許出願人 PATENT HOLDER	発明の名称 NAME OF PATENT	出願番号等 REGISTRATION NO./ APPLICATION NO.	備考（出願国名） REMARKS
QUALCOMM Incorporated *45	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	JP2004-512708	US7,042,869, AU, BR, CA, CL, CN, DE, EP, ES, FI, FR, GB, HK, ID, IL, IN, IT, KR, MX, NL, NO, NZ, RU, SE, SG, TW, UA, WO
	Method and apparatus for puncturing code symbols in a communications system	JP2003-535548	US6,614,850, BR, CN, EP, HK, KR, TW, WO
	Method and Apparatus for High Rate Packet Data and Low Delay Data Transmissions	JP2004-514369	US7,068,683, US20060187877, AU, BR, CA, CN, EP, HK, ID, IL, IN, KR, MX, NO, RU, SG, TW, UA, WO
	Method and apparatus for determining a data rate in a high rate packet data wireless communications system	JP4083578	US6,973,098, US20050254465, AU, BR, CA, CN, EP, HK, ID, IL, IN, KR, MX, NO, RU, SG, TW, UA, WO
	Method and apparatus for handoff of a wireless packet data services connection	JP4194840	US7,079,511, US20060165038, US20060187883, AU, BR, CA, CN, DE, EP, FI, FR, GB, HK, ID, IL, IN, IT, KR, MX, NO, RU, SE, SG, TW, UA, WO
	Local authentication in a communication system	JP2004-533174	US20020091933, US20050257255, BE, BR, CN, DE, EP, ES, FI, FR, GB, HK, IT, KR, NL, SE, TW, WO



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特許出願人 PATENT HOLDER	発明の名称 NAME OF PATENT	出願番号等 REGISTRATION NO./ APPLICATION NO.	備考（出願国名） REMARKS
QUALCOMM Incorporated *45	Method and apparatus for call recovery in a wireless communication system	JP4202132	US20020077104, AU, BR, CA, CN, EP, HK, ID, IL, IN, KR, MX, NO, RU, SG, TW, UA, WO
	Method and apparatus for power level adjustment in a wireless communication system	JP2005502216	US20020090965, AU, BR, CA, CN, EP, HK, ID, IL, IN, KR, MX, NO, RU, SG, TW, UA, WO
	Method and apparatus for testing traffic and auxiliary channels in a wireless data communication system	JP2005-512473	US20030142629, AU, BR, CA, CN, EP, HK, ID, IL, IN, KR, MX, NO, RU, SG, TW, UA, WO
	Reverse Link Channel Architecture for a Wireless Communication System	JP4040976	US7,120,134, US20050128964, US20050135320, AU, BR CA, CN, DE, EP, FI, FR, GB, HK, ID, IL, IN, IT, KR, MX, NO, RU, SE, SG, TW, UA, WO
	Method and apparatus for link quality feedback in a wireless communication system	JP2004-531114	US6,985,453, AU, BR, CA, CN, DE, EP, ES, FI, FR, GB, HK, ID, IE, IL, IN, IT, KR, MX, NL, NO, RU, SG, TW, UA, WO

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特許出願人 PATENT HOLDER	発明の名称 NAME OF PATENT	出願番号等 REGISTRATION NO./ APPLICATION NO.	備考（出願国名） REMARKS
QUALCOMM Incorporated *45	<p>Synchronization of stored service parameters in a communication system</p> <p>Ceasing transmission of data rate control information in a CDMA communication system when the mobile station transmits to the idle open state</p> <p>Method and Apparatus for WALSH Space Assignment in a Communication System</p> <p>Method and Apparatus for Call Setup Latency Reduction</p> <p>Call setup latency reduction by encapsulating signalling messages</p> <p>Method and apparatus for out-of-band transmission of broadcast service option in a wireless communication system</p>	<p>JP2004-533771</p> <p>JP4236579</p> <p>JP2005-517312</p> <p>JP2005-525713</p> <p>JP4163108</p> <p>JP2004-533746</p>	<p>US7,499,698, US12/391,077, US20050130707, US20050130708, US12/391,077, BR, CA, CN, CN, EP, HK, IN, KR, TW, WO</p> <p>US7,103,021, US20060291394, CN, DE, EP, FR, GB, HK, KR, TW, WO</p> <p>US20030039204, AU, BR, CA, CN, EP, HK, ID, IL, IN, KR, MX, NO, RU, SG, TW, UA, WO</p> <p>US7,180,879, US7,417,976, US20070086390, US20070086391, US20070086392, US20070086393, CN, EP, HK, IN, KR, TW, WO</p> <p>US6,952,411, CN, EP, HK, IN, KR, TW, WO</p> <p>US6,909,702, BR, CA, CN, DE, EP, FR, GB, HK, KR, MX, TW, WO</p>

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特許出願人 PATENT HOLDER	発明の名称 NAME OF PATENT	出願番号等 REGISTRATION NO./ APPLICATION NO.	備考（出願国名） REMARKS
QUALCOMM Incorporated *45	Channel Quality Feedback for Power Control in a CDMA System	JP2005-525730	US20030161285, US20080130613, BR, CA, CN, DE, EP, FI, FR, GB, HK, IN, IT, KR, MX, SE, TW, WO
	Method and apparatus for security in a data processing system	JP2004-532554	US20020141591, BR, CA, CN, EP, HK, KR, MX, TW, WO
	Method and Apparatus for Secure Data Transmission in a Mobile Communication System	JP2005-537713	US7,185,362, US20070116282, BR, CA, CN, EP, HK, IN, KR, MX, TW, WO
	Method and apparatus for transmission framing in a wireless communication system	JP2005-509310	US20020141371, BR, CA, CN, EP, HK, KR, MX, TW, US, WO
	Method and apparatus for data transport in a wireless communication system	JP2005-507572	US6,707,801, BR, CA, CN, EP, HK, KR, MX, TW, WO
	Method and apparatus for header compression in a wireless communication system	JP2005-509311	US7,031,666, BR, CA, CN, EP, HK, KR, MX, TW, WO
	Method and System for Utilization of an Outer Decoder in a Broadcast Services Communication System	JP2005-525712	US20030035389, CN, EP, HK, IN, KR, TW, WO

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特許出願人 PATENT HOLDER	発明の名称 NAME OF PATENT	出願番号等 REGISTRATION NO./ APPLICATION NO.	備考（出願国名） REMARKS
QUALCOMM Incorporated *45	Method and system for signaling in broadcast communication system	JP2005-500762	US6,980,820, US7,415,283, US20050143080, CN, DE, EP, ES, FI, FR, GB, HK, IN, IT, KR, SE, TW, WO
	Method and system for a handoff in a broadcast communication system	JP2005-500767	US6,731,936, US7,254,394, US20070243871, CN, EP, HK, IN, KR, TW, WO
	Flexible ARQ for packet data transmission	JP2005-506735	US20030067907, AU, BR, CA, CN, DE, EP, FI, FR, GB, HK, ID, IL, IN, IT, KR, MX, NO, RU, SE, SG, TW, UA, WO
	Method and apparatus for data packet transport in a wireless communications system using an internet protocol	JP2005-534202	US7,184,789, BR, CA, CN, EP, HK, ID, IL, IN, KR, MX, NO, RU, SG, TW, UA, WO
	Method and Apparatus for Security in a Data Processing System	JP2005-537689	US7,352,868, US20080226073, AU, BR, CA, CN, EP, HK, ID, IL, IN, KR, MX, RU, SG, TW, WO
	Concatenated encoding and decoding for multilayer communication protocol	JP2005-532701	US20030072384, BR, CN, EP, HK, KR, TW, WO
	Method for Processing Shared Sub-Packets in a Communication System	JP2005-507192	US20030072296, BR, CN, EP, HK, KR, TW, WO

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特許出願人 PATENT HOLDER	発明の名称 NAME OF PATENT	出願番号等 REGISTRATION NO./ APPLICATION NO.	備考（出願国名） REMARKS
QUALCOMM Incorporated *45	Method and System for a Multicast Service Initiation in a Communication System	JP2005-533414	US6,876,636, US20050169203, BR, CN, EP, HK, KR, TW, WO
	Selecting a packet data serving node for multi-cast/broadcast services	JP4236582	US6,987,764, BR, CA, CN, EP, HK, ID, IL, IN, KR, MX, NO, SG, TW, UA, WO
	Method and apparatus for controlling communications of data from multiple base stations to a mobile station in a communication system	JP2005-515666	US20030129989, AU, BR, CA, CN, CN, CN, EP, HK, HK, ID, IL, IN, KR, MX, NO, RU, SG, UA, WO
	Cryptosync Design for a Wireless Communication System	JP2005-515702	US20030206538, CN, EP, HK, IN, WO, KR, TW, WO
	Method and apparatus for generating control information for packet data	JP2005-505155	US6,804,220, US20050047377, AU, BR, CA, CN, EP, HK, ID, IL, IN, KR, MX, NO, RU, SG, TW, UA, WO
	System and Method for Channel Quality Feedback	JP2006-507702	US7,050,759, US20060211378, US20050180450, US20050159110, AU, BR, CA, CN, EP, HK, IN, KR, MX, SG, SG, TW, WO
	Handoff Between Base Stations of Different Protocol Revisions in a CDMA System	JP2005-522962	US20030193911, BR, CN, DE, EP, ES, FI, FR, GB, HK, IT, KR, NL, SE, TW, WO

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特許出願人 PATENT HOLDER	発明の名称 NAME OF PATENT	出願番号等 REGISTRATION NO./ APPLICATION NO.	備考（出願国名） REMARKS
QUALCOMM Incorporated *45	Power control for point-to-multipoint services provided in communication systems	JP2005-509313	US20030134655, AU, BR, CA, CN, EP, HK, ID, IL, IN, KR, MX, NO, RU, SG, TW, UA, WO
	Method and System for a Multicast Service Initiation in a Communication System	JP2005-533411	US20040131075, BR, CN, EP, HK, KR, TW, WO
	Method and Apparatus for Switching Between Shared and Individual Channels to Provide Broadcast Content Services in a Wireless Telephone Network	JP2006-504332	US7,283,782, US20070298709, AU, BR, CA, CN, EP, ID, IL, IN, KR, MX, RU, TW, UA, WO
	Method and Apparatus for Commencing Shared or Individual Transmission of Broadcast Content in a Wireless Telephone Network	JP2006-504331	US7,277,694, US20080076348, AU, BR, CA, CN, DE, EP, FI, FR, GB, HK, ID, IL, IN, IT, KR, MX, RU, SE, TW, UA, WO
	Method and Apparatus to Initiate Point-to-Point Call During Shared-Channel Delivery of Broadcast Content in a Wireless Telephone Network	JP2006-516870	US7,096,024, US7,328,022, US20080014949,US7,477,916, US12/331,270, US20080014983, AU, BR, CA, CN, EP, HK, ID, IL, IN, KR, MX, RU, TW, WO
Modified Power Control for Hybrid ARQ on the Reverse Link	JP2006-517761	US7,155,249,US20070030820, AU, BR, CA, CN, EP, HK, ID, IL, IN, KR, MX, RU, TW, UA, WO	

**List of Essential Industrial Property Rights for ARIB STD-T64 Ver.4.50**

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特許出願人 PATENT HOLDER	発明の名称 NAME OF PATENT	出願番号等 REGISTRATION NO./ APPLICATION NO.	備考（出願国名） REMARKS
QUALCOMM Incorporated *45	Operation of a Forward Link Acknowledgement Channel for the Reverse Link Data	JP2006513642	US6,996,763, US7,437,648, US12/250,324, AU, BR, CA, CN, EP, HK, ID, IL, IN, KR, MX, RU, RU, TW, UA, WO
	Variable Packet Lengths for High Packet Data Rate Communications	JP2006-518170	US7,280,562, AU, BR, CA, CN, EP, HK, ID, IL, IN, KR, MX, RU, TW, UA, WO
	Code Division Multiplexing Commands on a Code Division Multiplexed Channel	JP2006-518161	US20040160933, AU, BR, CA, CN, EP, HK, ID, IL, IN, KR, MX, RU, TW, UA, WO
	Method and Apparatus for Determining the Necessity of Transmission of a Primary and a Secondary Pilot Channel and Improvement of Chennel Estimation	JP2006-526962	US20040246924, US20070098017, US20070268869, AU, BR, CA, CN, EP, EP, HK, ID, IL, IN, KR, MX, NO, NZ, RU, SG, TW, WO
	Apparatus and Method for a Secure Broadcast System	JP2007-529147	US20050010774, AU, BR, CA, CN, EP, HK, IL, IN, KR, MX, MY, PH, RU, SG, TH, TW, VN, WO
	Apparatus, System, and Method for Autonomously Managing Reverse Link Communication Resources in a Distributed Communication System	JP2006-527976	US7,158,796,US20070093254, AU, BR, CA, CN, EP, HK, ID, IL, IN, KR, MX, RU, TW, UA, WO

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特許出願人 PATENT HOLDER	発明の名称 NAME OF PATENT	出願番号等 REGISTRATION NO./ APPLICATION NO.	備考（出願国名） REMARKS
QUALCOMM Incorporated *45	<p>Digital Signal Processors with Configurable Dual-MAC and Dual-ALU</p> <p>Method for Transmission Power Control Based on Evaluation of a Reverse Activity Bit and Data Flow Specific Upward/Downward Ramping Functions, and Corresponding Wireless Access Terminal</p> <p>Combining Acknowledgement and Rate Control</p> <p>Cooperative autonomous and scheduled resource allocation for a distributed communication system</p> <p>Grant, Acknowledgement, and Rate Control Active Sets</p>	<p>JP2007-526723</p> <p>JP2007-535201</p> <p>JP2007-501576</p> <p>JP2007-501571</p> <p>JP2007-501575</p>	<p>US20050198472, CA, EP, HK, RU, TW, WO</p> <p>US6,970,437, AU, BR, CA, CN, CO, EC, EP, HK, ID, IL, IN, KR, MX, NO, NZ, RU, SG, TW, UA, VN, WO, ZA</p> <p>US20050030911, US20070206623, AU, BR, CA, CN, EP, HK, ID, IL, IN, KR, MX, RU, TW, UA, WO</p> <p>US20050013282, AU, BR, CA, CN, EC, EP, HK, IL, IN, KR, MX, NO, NZ, RU, SG, TW, UA, VN, WO, ZA</p> <p>US7,126,928, BE, BG, BR, CA, CN, CZ, DE, EP, ES, FI, FR, GB, HK, HU, IE, IN, IT, KR, MX, NL, PL, RO, SE, TW, WO</p>



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特許出願人 PATENT HOLDER	発明の名称 NAME OF PATENT	出願番号等 REGISTRATION NO./ APPLICATION NO.	備考（出願国名） REMARKS
QUALCOMM Incorporated *45	Apparatus, System, and Method for Managing Reverse Link Communication	JP2007-505571	US20050124372, US20070111747, AU, BE, BG, BR, CA, CN, CZ, DE, EP, ES, FI, FR, GB, HK, HU, ID, IE, IL, IN, IT, KR, MX, NL, NO, PL, RO, RU, SE, TW, UA, WO
	Method and Apparatus for Acknowledging Reverse Link Transmissions in a Communications System	JP2007-508724	US20050117508, BR, CA, CN, EP, HK, IN, KR, MX, TW, WO
	Method and system for signaling in broadcast communication system	JP2007505581	US20050201321, AU, BR, CA, CN, EP, HK, ID, IL, IN, KR, MX, RU, TW, UA, WO
	Method and Apparatus for Controlling Reverse Link Data Rate of a Mobile Station	JP2007-525103	US20050201280, BR, CA, CN, EP, HK, IN, KR, MX, TW, WO
	Method and Apparatus for Data Rate Control in Soft Handoff and During Cell-Switching	JP2007-508790	US20050141454, AU, BR, CA, CN, EP, HK, ID, IL, IN, KR, MX, RU, TW, UA, WO
	Varied signaling channels for a reverse link in a wireless communication system	JP2008-538198	US20070097942, AU, BR, CA, CN, EP, ID, IL, IN, KR, MX, MY, NO, NZ, PH, RU, SG, TW, UA, VN, WO

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特許出願人 PATENT HOLDER	発明の名称 NAME OF PATENT	出願番号等 REGISTRATION NO./ APPLICATION NO.	備考（出願国名） REMARKS
QUALCOMM Incorporated *45	Interleaver and deinterleaver for use in a diversity transmission communication system	JP2002-542713	US6,356,528, US7,158,498, US20070077886, AU, BR, CA, CN, DE, EP, FI, FR, GB, HK, ID, IL, IN, IT, KR, MX, NL, NO, RU, SE, SG, UA, WO
	Method and Apparatus for Determining a Reverse Link Transmission Rate in a Wireless Communication System	JP2003-521847	US6,556,549, US6,804,210, US6,807,161, US6,680,926, AT, BE, BR, CA, CH, CN, DE, DK, EP, ES, FI, FR, GB, GR, HK,, ID, IE, IL, IN, IT, KR, LU, MC, MX, NL, NO, PT, RU, SE, SG, TW, UA, WO
	Mobile station supervision of the forward dedicated control channel when in the discontinuous transmission mode	JP2003-505993	US6,480,472, US20020150069, AU, BR, CA, CA, CN, DE, EP, FI, FR, GB, HK, ID, IL, IN, IT, KR, MX, NO, RU, SE, SG, UA, WO
	System and Method for Persistence-Vector-Based Modification of Usage Rates	JP2003-510928	US6,665,272, AU, CA, CN, EP, HK, IL, IN, KR, MX, NO, SG, TW, WO
	Method and apparatus for providing configurable layers and protocols in a communications system	JP2003-524328	US6,539,030, US7,158,537, US7,106,779, AU, BR, CA, CN, DE, EP, ES, FI, FR, GB, HK, ID, IL, IN, IT, KR, MX, NL, NO, RU, SE, SG, TW, WO

List of Essential Industrial Property Rights for ARIB STD-T64 Ver.4.50

Attachment “No. 2”

特許出願人 PATENT HOLDER	発明の名称 NAME OF PATENT	出願番号等 REGISTRATION NO./ APPLICATION NO.	備考（出願国名） REMARKS
QUALCOMM Incorporated *45	Method and Apparatus Using a Multi-Carrier Forward Link in a Wireless Communication System	JP2003-522446	US09/382,438, BR, CN, EP, HK, KR, TW, WO
	Method and Apparatus for Controlling Transmission Gated Communication System	JP2003-518344	US6,496,706, AU, BR, CA, CN, EP, HK, ID, IL, IN, KR, MX, NO, RU, SG, TW, UA, WO
	PN generators for spread spectrum communications systems	JP2003-523661	US6,661,833, US20040052302, AU, BR, CA, CN, EP, HK, ID, IL, IN, KR, KR, MX, NO, RU, SG, TW, UA, WO
	Method and apparatus for concurrently processing multiple calls in a spread spectrum communications system	JP2003507946	US6,625,198, US7,184,459, US7,466,741, AU, BR, CA, CN, DE, EP, FI, FR, GB, HK, ID, IL, IN, IT, KR, MX, NO, RU, SE, SG, TW, UA, WO
	Closed-Loop Resource Allocation in a High Speed Wireless Communications Network	JP2003-510991	US6,563,810, US7,339,894, US20070286081, BR, CN, DE, EP, ES, FI, FR, GB, HK, IE, IT, KR, NL, TW, WO
	Method and apparatus for encrypting transmissions in a communication system	JP2004-521521	US6,980,658, US20060056637, AU, BR, CA, CN, DE, EP, ES, FI, FR, GB, HK, ID, IL, IN, IT, KR, MX, NL, NO, RU, SE, SG, UA, WO

List of Essential Industrial Property Rights for ARIB STD-T64 Ver.4.50

Attachment “No. 2”

特許出願人 PATENT HOLDER	発明の名称 NAME OF PATENT	出願番号等 REGISTRATION NO./ APPLICATION NO.	備考（出願国名） REMARKS
QUALCOMM Incorporated *45	<p>Fast Power Control in a Variable Data Rate Mobile CDMA Communication System</p> <p>Digital network interface for analog fax equipment</p> <p>Collision Avoidance in a Half-Duplex Communication System</p> <p>Pilot based transmit power control</p> <p>Method of and apparatus for avoiding lost communication with a mobile station</p>	<p>JP3115608</p> <p>JP4132082</p> <p>JP2001508616</p> <p>JP2001-512632</p> <p>JP4108759</p>	<p>US6,137,840, US6,977,967, US20060098759, BR, CA, CN, DE, EP, ES, FI, FR, GB, HK, IE, IL, IT, KR, MX, NL, RU, SE, SG, VN, WO</p> <p>US6,038,037, US6,700,676, AT, BE, CA, CH, CL, CN, DE, CK, EP, ES, FI, FR, GB, GR, IE, IT, KR, LI, LU, MC, MX, MY, NL, PT, SE, WO, ZA</p> <p>US6,147,978, CN, DE, EP, FI, FR, HK, IN, KR, WO</p> <p>US5,933,781, AM, AT, AU, AZ, BE, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EP, ES, FI, FR, GB, GR, HK, ID, IE, IL, IN, IT, KG, KR, KZ, LI, LU, MC, MY, NL, NO, PL, PT, RO, RU, SE, TW, WO, ZA</p> <p>US5,999,816, AT, BE, BG, CH, CL, CN, CZ, DE, EP, ES, FI, FR, GB, HK, HU, IE, IN, IT, KR, NL, NO, PL, RO, SE, TW, WO, ZA</p>

List of Essential Industrial Property Rights for ARIB STD-T64 Ver.4.50

Attachment “No. 2”

特許出願人 PATENT HOLDER	発明の名称 NAME OF PATENT	出願番号等 REGISTRATION NO./ APPLICATION NO.	備考（出願国名） REMARKS
QUALCOMM Incorporated *45	<p>A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System</p> <p>Sequence Numbering Range Extending Method and System for Selecting Repeat Transmission Protocols</p> <p>A method of and apparatus for transmission data at a high data rate in a plurality of low data rate channels</p> <p>Method and System for Performing a Handoff in a Wireless Communication System, Such as a Hard Handoff</p>	<p>JP3983818</p> <p>JP4068165</p> <p>JP2002-504291</p> <p>JP2003-506983</p>	<p>US6,393,295, US6,832,094, US20050064880, US20070142066, US20070135142, US20070135143, US20070149221, US20080090594, AR, AT, AU, BE, BR, CA, CH, CL, CN, CZ, DE, DK, EP, ES, FI, FR, GB, GR, HK, HU, ID, IE, IL, IN, IT, KR, LI, LU, MC, MX, MY, NL, NZ, PL, PT, RU, SE, SG, TW, UA, WO, ZA</p> <p>US6,011,796, US6,418,143, AU, CA, CL, CN, EP, FI, HK, ID, KR, MX, NO, RU, SG, UA, WO</p> <p>US6,044,103, CN, DE, EP, ES, FI, FR, GB, IT, KR, MY, SE, TW, WO, ZA</p> <p>US6,587,446, AU, BR, CA, CN, DE, EP, ES, FI, FR, GB, HK, ID, IL, IT, KR, MX, NO, RU, SE, SG, UA, WO</p>

## List of Essential Industrial Property Rights for ARIB STD-T64 Ver.4.50

### Attachment “No. 2”

特許出願人 PATENT HOLDER	発明の名称 NAME OF PATENT	出願番号等 REGISTRATION NO./ APPLICATION NO.	備考（出願国名） REMARKS
QUALCOMM Incorporated *45	<p>A method for coding in a telecommunications system</p> <p>Reservation Multiple Access</p> <p>Reservation Multiple Access</p> <p>Method and Apparatus for Detection of Fax Calls</p> <p>Forward link power control of multiple data streams transmitted to a mobile station using a common power control channel</p>	<p>JP2003-530765</p> <p>JP2002-528017</p> <p>JP2002-540693</p> <p>JP2002-537690</p> <p>JP2002-542656</p>	<p>US6,560,292, US6,757,335, US7,436,892, US7,161,993, US20070086545, BR, CN, EP, HK, KR, TW, WO</p> <p>US6,256,301, CN, EP, HK, KR, WO</p> <p>US6,788,937, CN, EP, HK, KR, WO</p> <p>US6,075,847, CN, EP, HK, KR, WO</p> <p>US6,249,683, US7,031,740, US7,107,069, US6,975,880, US20060270443, AU, BR, CA, CN, DE, EP, ES, FI, FR, GB, HK, ID, IL, IT, KR, MX, NL, NO, RU, SE, SG, UA, VN, WO</p>

\*10: These patents are applied to the part defined by ARIB STD-T64 Ver.1.00.

\*13: These patents are applied to the part defined by ARIB STD-T64 Ver.1.30.

\*45: These patents are applied to the revised part of ARIB STD-T64 Ver.4.50.

\*49: These patents are applied to the revised part of ARIB STD-T64 Ver.4.90.

\*491: This application was submitted by Nokia on August 30, 2002.

\*492: This application was submitted by Motorola, Inc. on November 29, 2001.

**List of Essential Industrial Property Rights for ARIB STD-T64 Ver.5.00****Attachment “No. 2”**

特許出願人 PATENT HOLDER	発明の名称 NAME OF PATENT	出願番号等 REGISTRATION NO./ APPLICATION NO.	備考 (出願国名) REMARKS
モトローラ株式会社 * <sup>50</sup>	A comprehensive confirmation form has been submitted with regard to ARIB STD-T64 Ver.5.00.		
QUALCOMM Incorporated * <sup>50</sup>	A comprehensive confirmation form has been submitted with regard to ARIB STD-T64 Ver.5.00.		

\*<sup>50</sup>: These patents are applied to the revised part of ARIB STD-T64 Ver.5.00.

**List of Essential Industrial Property Rights for ARIB STD-T64 Ver.5.10****Attachment “No. 2”**

特許出願人 PATENT HOLDER	発明の名称 NAME OF PATENT	出願番号等 REGISTRATION NO./ APPLICATION NO.	備考 (出願国名) REMARKS
モトローラ株式会社 * <sup>51</sup>	A comprehensive confirmation form has been submitted with regard to ARIB STD-T64 Ver.5.10.		
QUALCOMM Incorporated * <sup>51</sup>	A comprehensive confirmation form has been submitted with regard to ARIB STD-T64 Ver.5.10.		



**List of Essential Industrial Property Rights for ARIB STD-T64 Ver.1.00**

**Attachment “No. 2”**

特許出願人 PATENT HOLDER	発明の名称 NAME OF PATENT	出願番号等 REGISTRATION NO./ APPLICATION NO.	備考（出願国名） REMARKS
QUALCOMM Incorporated *10	<p>A Predictive Speech Coder Using Coding Scheme Selection Patterns to Reduce Sensitivity to Frame Errors</p> <p>Method and apparatus for robust speech classification</p> <p>Method and system for validating detected rates of received variable rate speech frames</p> <p>Method and Apparatus for Interoperability Between Voice Transmission Systems During Speech Inactivity</p> <p>Bandwidth-Adaptive Quantization</p> <p>Adaptive de-jitter buffer for voice over IP</p>	<p>JP 2003515178</p> <p>JP 2004-515809</p> <p>JP 2004-515965</p> <p>JP 4071631</p> <p>JP 2006-510922</p> <p>JP 2008-512062</p>	<p>BR, CN, EP, FI, FR, DE, HK, IT, KR, ES, SE, TW, GB, US 6,438,518</p> <p>BR, CN, EP, FI, FR, DE, HK, IE, IT, KR, ES, SE, TW, GB, US 7,472,059</p> <p>AU, BR, CA, CN, EP, HK, IN, IL, JP, KR, MX, NO, RU, SG, TW, UA, US 6,804,218, US 7,590,096, US 12/537,906</p> <p>BR, CN, EP, FI, FR, DE, HK, IT, KR, ES, SE, TW, GB, US 6,631,139, US 7,061,934</p> <p>BR, EP, FR, DE, HK, IN, KR, SG, GB, US 20040030548</p> <p>BR, CA, CN, EP, HK, IN, JP, KR, MY, MX, TW, US 20060045138</p>

List of Essential Industrial Property Rights for ARIB STD-T64 Ver.1.00

Attachment “No. 2”

特許出願人 PATENT HOLDER	発明の名称 NAME OF PATENT	出願番号等 REGISTRATION NO./ APPLICATION NO.	備考（出願国名） REMARKS
QUALCOMM Incorporated *10	Time Warping Frames Inside the Vocoder by Modifying the Residual	JP 2008-533529	AU, BR, CA, CN, EP, HK, IN, ID, IL, KR, MX, NZ, NO, RU, SG, TW, UA, VE, US 20060206334,
	Systems, methods, and apparatus for frequency-domain waveform alignment	JP 2009-518666	CN, EP, IN, KR, TW, US 20070185708
	Systems, methods, and apparatus for detection of tonal components	JP 2009-518694	CN, EP, IN, KR, TW, US 20070174052
	Method and apparatus for phase matching frames in vocoders	JP 2008-533530	CN, EP, HK, IN, KR, MY, PK, TW, US 20060206318
	Systems, methods, and apparatus for wideband speech coding	JP 2008-537165	AU, BR, CA, CN, EP, HK, IN, ID, IL, KR, MX, NZ, NO, PH, RU, SG, TW, UA, VN, US 20070088542
	Systems, methods, and apparatus for highband excitation generation	JP 2008-535027	AU, BR, CA, CN, EP, HK, IN, ID, IL, KR, MX, NZ, NO, PH, RU, SG, TW, UA, VN, US 20060277038
	Method and apparatus for anti-sparseness filtering of a bandwidth extended speech prediction excitation signal	JP 2008-536170	AU, BR, CA, CN, EP, HK, IN, ID, IL, KR, MX, NZ, NO, PH, RU, SG, TW, UA, VN, US 20060277042

List of Essential Industrial Property Rights for ARIB STD-T64 Ver.1.00

Attachment “No. 2”

特許出願人 PATENT HOLDER	発明の名称 NAME OF PATENT	出願番号等 REGISTRATION NO./ APPLICATION NO.	備考（出願国名） REMARKS
QUALCOMM Incorporated *10	Methods and apparatus for encoding and decoding an highband portion of a speech signal	JP 2008-535026	AU, BR, CA, CN, EP, HK, IN, ID, IL, KR, MX, NZ, NO, PH, RU, SG, TW, UA, VN, US 20080126086
	Systems, methods, and apparatus for highband burst suppression	JP 2008-536169	AU, BR, CA, CN, EP, HK, IN, ID, IL, KR, MX, NZ, NO, PH, RU, SG, TW, UA, VN, US 20070088541
	Systems, methods, and apparatus for highband time warping	JP 2008-537606	AU, BR, CA, CN, EP, HK, IN, ID, IL, KR, MX, NO, PH, RU, SG, TW, UA, VN, US 20060282263
	METHOD AND APPARATUS FOR SPLIT-BAND ENCODING OF SPEECH SIGNALS	JP 2008-535025	AU, BR, CA, CN, EP, HK, IN, ID, IL, KR, MX, NZ, NO, PH, RU, SG, TW, UA, VN, US 20070088558
	Method and apparatus for vector quantizing of a special envelope representation	JP 2008-535024	AU, BR, CA, CN, EP, HK, IN, ID, IL, KR, MX, NZ, NO, PH, RU, SG, TW, UA, VN, US 20060271356
	Method and apparatus for modifying playback timing of talkspurts within a sentence without affecting intelligibility	WO 08134384	JP, BR, CA, CN, EP, IN, KR, RU, SG, TW, US 20080267224

List of Essential Industrial Property Rights for ARIB STD-T64 Ver.1.00

Attachment “No. 2”

特許出願人 PATENT HOLDER	発明の名称 NAME OF PATENT	出願番号等 REGISTRATION NO./ APPLICATION NO.	備考（出願国名） REMARKS
QUALCOMM Incorporated *10	Time-Warping Frames of Wideband Vocoder	JP 2009-525687	BR, CA, CN, EP, IN, KR, WO, RU, SG, TW, US 20080052065
	Systems, methods, and apparatus for wideband encoding and decoding of active frames	JP 2009-523017	BR, CA, CN, EP, IN, KR, WO, RU, SG, TW, US 20080027715
	Systems, methods, and apparatus for signal change detection	JP 2009-523024	BR, CA, CN, EP, IN, KR, RU, SG, TW, US 20080027716
	Systems, methods, and apparatus for wideband encoding and decoding of inactive frames	JP 2009-523021	BR, CA, CN, EP, IN, KR, RU, SG, TW, US 20080027717
	Systems and methods for including an identifier with a packet associated with a speech signal	JP 2009-523028	BR, CA, CN, EP, IN, KR, RU, SG, TW, US 20080027711
	Systems and methods for modifying a window with a frame associated with an audio signal	JP 2009-523026	BR, CA, CN, EP, IN, KR, WO, RU, SG, TW, US 20080027719
	Systems and methods for dimming a first packet associated with a first bit rate to a second packet associated with a second bit rate	JP 2009-544895	BR, CA, CN, EP, IN, KR, RU, SG, TW, US 20080165799

**List of Essential Industrial Property Rights for ARIB STD-T64 Ver.1.00**

**Attachment “No. 2”**

特許出願人 PATENT HOLDER	発明の名称 NAME OF PATENT	出願番号等 REGISTRATION NO./ APPLICATION NO.	備考（出願国名） REMARKS
QUALCOMM Incorporated * <sup>10</sup>	Synthesis of Speech from Pitch Prototype Waveforms by Time-Synchronous Waveform Interpolation  Periodic Speech Coding	JP 2003-501675  JP 2003522965	CN, EP, FR, DE, HK, KR, GB, US 6,754,630  CN, EP, FI, FR, DE, HK, IT, KR, ES, SE, GB US 6,456,964

\*<sup>10</sup>: These patents are applied to the part defined by ARIB STD-T64 Ver.1.00.

\*<sup>51</sup>: These patents are applied to the revised part of ARIB STD-T64 Ver.5.10.

**List of Essential Industrial Property Rights for ARIB STD-T64 Ver.5.20****Attachment “No. 2”**

特許出願人 PATENT HOLDER	発明の名称 NAME OF PATENT	出願番号等 REGISTRATION NO./ APPLICATION NO.	備考 (出願国名) REMARKS
モトローラ株式会社 * <sup>52</sup>	A comprehensive confirmation form has been submitted with regard to ARIB STD-T64 Ver.5.20.		
QUALCOMM Incorporated * <sup>52</sup>	A comprehensive confirmation form has been submitted with regard to ARIB STD-T64 Ver.5.20.		

\*<sup>52</sup>: These patents are applied to the revised part of ARIB STD-T64 Ver.5.20.

**List of Essential Industrial Property Rights for ARIB STD-T64 Ver.5.30****Attachment “No. 2”**

特許出願人 PATENT HOLDER	発明の名称 NAME OF PATENT	出願番号等 REGISTRATION NO./ APPLICATION NO.	備考 (出願国名) REMARKS
モトローラ株式会社 * <sup>53</sup>	A comprehensive confirmation form has been submitted with regard to ARIB STD-T64 Ver.5.30.		
QUALCOMM Incorporated * <sup>53</sup>	A comprehensive confirmation form has been submitted with regard to ARIB STD-T64 Ver.5.30.		

**List of Essential Industrial Property Rights for ARIB STD-T64 Ver.5.30**

**Attachment “No. 2”**

特許出願人 PATENT HOLDER	発明の名称 NAME OF PATENT	出願番号等 REGISTRATION NO./ APPLICATION NO.	備考（出願国名） REMARKS
NOKIA CORPORATION * <sup>53</sup>	Multimode roaming mobile devices	WOPCT/IB2005/002416, 2005/122601	EP, IN, US

\*<sup>53</sup>: These patents are applied to the revised part of ARIB STD-T64 Ver.5.30.



**List of Essential Industrial Property Rights for ARIB STD-T64 Ver.5.40****Attachment “No. 2”**

特許出願人 PATENT HOLDER	発明の名称 NAME OF PATENT	出願番号等 REGISTRATION NO./ APPLICATION NO.	備考 (出願国名) REMARKS
モトローラ株式会社 * <sup>54</sup>	A comprehensive confirmation form has been submitted with regard to ARIB STD-T64 Ver.5.40.		
QUALCOMM Incorporated * <sup>54</sup>	A comprehensive confirmation form has been submitted with regard to ARIB STD-T64 Ver.5.40.		

\*<sup>54</sup>: These patents are applied to the revised part of ARIB STD-T64 Ver.5.40.

**List of Essential Industrial Property Rights for ARIB STD-T64 Ver.5.50****Attachment “No. 2”**

特許出願人 PATENT HOLDER	発明の名称 NAME OF PATENT	出願番号等 REGISTRATION NO./ APPLICATION NO.	備考 (出願国名) REMARKS
QUALCOMM Incorporated *55	A comprehensive confirmation form has been submitted with regard to ARIB STD-T64 Ver.5.50.		

## List of Essential Industrial Property Rights for ARIB STD-T64 Ver.5.40

### Attachment “No. 2”

特許出願人 PATENT HOLDER	発明の名称 NAME OF PATENT	出願番号等 REGISTRATION NO./ APPLICATION NO.	備考（出願国名） REMARKS
NOKIA CORPORATION *54	<p>Method and apparatus for providing system selection using dynamic parameters</p> <p>Method and system for supporting the quality of service in wireless networks</p> <p>Method and system for handling a network-identified emergency session</p>	<p>JP2009-536815, 2010-510707</p> <p>JP2000-568269, 4467797 and JP2009-229463, 4477694</p> <p>JP20030514836, 4545436</p>	<p>CN, KR, US, WO</p> <p>CN, EP, US</p> <p>AU, CA, CN, DE,EP, FR, GB, IN, PT, RU, TR, US</p>

\*54: These patents are applied to the revised part of ARIB STD-T64 Ver.5.40.

\*55: This patent is applied to the revised part of ARIB STD-T64 Ver.5.50.

**List of Essential Industrial Property Rights for ARIB STD-T64 Ver.5.60****Attachment “No. 2”**

特許出願人 PATENT HOLDER	発明の名称 NAME OF PATENT	出願番号等 REGISTRATION NO./ APPLICATION NO.	備考 (出願国名) REMARKS
QUALCOMM Incorporated * <sup>56</sup>	A comprehensive confirmation form has been submitted with regard to ARIB STD-T64 Ver.5.60.		

\*<sup>56</sup>: This patent is applied to the revised part of ARIB STD-T64 Ver.5.60.

**List of Essential Industrial Property Rights for ARIB STD-T64 Ver.5.70****Attachment “No. 2”**

特許出願人 PATENT HOLDER	発明の名称 NAME OF PATENT	出願番号等 REGISTRATION NO./ APPLICATION NO.	備考 (出願国名) REMARKS
QUALCOMM Incorporated <sup>*57</sup>	A comprehensive confirmation form has been submitted with regard to ARIB STD-T64 Ver.5.70.		

<sup>\*57</sup>: This patent is applied to the revised part of ARIB STD-T64 Ver.5.70.

**List of Essential Industrial Property Rights for ARIB STD-T64 Ver.5.80****Attachment “No. 2”**

特許出願人 PATENT HOLDER	発明の名称 NAME OF PATENT	出願番号等 REGISTRATION NO./ APPLICATION NO.	備考 (出願国名) REMARKS
QUALCOMM Incorporated * <sup>58</sup>	A comprehensive confirmation form has been submitted with regard to ARIB STD-T64 Ver.5.80.		

\*<sup>58</sup>: This patent is applied to the revised part of ARIB STD-T64 Ver.5.80.

**List of Essential Industrial Property Rights for ARIB STD-T64**

**Attachment “No. 2”**

[Ver. 5.90]

(selection of option 2)

特許出願人 PATENT HOLDER	発明の名称 NAME OF PATENT	出願番号等 REGISTRATION NO./ APPLICATION NO.	備考 (出願国名) REMARKS
QUALCOMM Incorporated	A comprehensive confirmation form has been submitted with regard to ARIB STD-T64.		

**List of Essential Industrial Property Rights for ARIB STD-T64**

**Attachment “No. 2”**

[Ver. 6.10]

(selection of option 2)

特許出願人 PATENT HOLDER	発明の名称 NAME OF PATENT	出願番号等 REGISTRATION NO./ APPLICATION NO.	備考 (出願国名) REMARKS
QUALCOMM Incorporated	A comprehensive confirmation form has been submitted with regard to ARIB STD-T64.		



**List of Essential Industrial Property Rights for ARIB STD-T64**

**Attachment “No. 2”**

[Ver. 6.20]

(selection of option 2)

特許出願人 PATENT HOLDER	発明の名称 NAME OF PATENT	出願番号等 REGISTRATION NO./ APPLICATION NO.	備考 (出願国名) REMARKS
QUALCOMM Incorporated	A comprehensive confirmation form has been submitted with regard to ARIB STD-T64.		

**List of Essential Industrial Property Rights for ARIB STD-T64**

**Attachment “No. 2”**

[Ver. 6.30]

(selection of option 2)

特許出願人 PATENT HOLDER	発明の名称 NAME OF PATENT	出願番号等 REGISTRATION NO./ APPLICATION NO.	備考 (出願国名) REMARKS
QUALCOMM Incorporated	A comprehensive confirmation form has been submitted with regard to ARIB STD-T64.		

**List of Essential Industrial Property Rights for ARIB STD-T64**

**Attachment “No. 2”**

[Ver. 6.40]

(selection of option 2)

特許出願人 PATENT HOLDER	発明の名称 NAME OF PATENT	出願番号等 REGISTRATION NO./ APPLICATION NO.	備考 (出願国名) REMARKS
QUALCOMM Incorporated	A comprehensive confirmation form has been submitted with regard to ARIB STD-T64.		

**List of Essential Industrial Property Rights for ARIB STD-T64**

**Attachment “No. 2”**

[Ver. 6.50]

(selection of option 2)

特許出願人 PATENT HOLDER	発明の名称 NAME OF PATENT	出願番号等 REGISTRATION NO./ APPLICATION NO.	備考 (出願国名) REMARKS
QUALCOMM Incorporated	A comprehensive confirmation form has been submitted with regard to ARIB STD-T64.		

**List of Essential Industrial Property Rights for ARIB STD-T64****Attachment “No. 2”**

[Ver. 6.60]

(selection of option 2)

特許出願人 PATENT HOLDER	発明の名称 NAME OF PATENT	出願番号等 REGISTRATION NO./ APPLICATION NO.	備考 (出願国名) REMARKS
ソニー株式会社	A comprehensive confirmation form has been submitted with regard to ARIB STD-T64.		

**List of Essential Industrial Property Rights for ARIB STD-T64**

**Attachment “No. 2”**

[Ver.6.70]

(selection of option 2)

特許出願人 PATENT HOLDER	発明の名称 NAME OF PATENT	出願番号等 REGISTRATION NO./ APPLICATION NO.	備考 (出願国名) REMARKS
ソニー株式会社	A comprehensive confirmation form has been submitted with regard to ARIB STD-T64.		

# 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
Qualcomm Incorporated	(1) Method and Apparatus for Handoff Between Different Cellular Communication Systems	USP 5,697,055	
	(2) Apparatus and Method for Controlling Transmit Power in a cellular Communication Systems	USP 5,715,526	
	(3) Method and Apparatus for Joint Transmission of Multiple Data Signals in Spread Spectrum Communication Systems	USP 5,757,767	
	(4) Dual Distributed Antenna System	USP 08/579,895	
	(5) Method and Apparatus for Mobile Unit Assisted CDMA to Alternative System Hard Handoff	USP 5,594,718	
	(6) Method and Apparatus for Generating Super-Orthogonal Convolutional Codes and the Decoding Thereof	USP 5,193,094	
	(7) Method and Apparatus for Managing Load Conditions in a Wireless Local Loop System	USP 5,799,254	
	(8) Signal Acquisition in a Multi-User Communication System Using Multiple Walsh Channels	USP 5,577,025	
	(9) Spread Spectrum Transmitter Power Control Method and System	USP 5,257,283	



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

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO.	REMARKS
Qualcomm Incorporated	(10) Method and Apparatus for Canceling Echo Accounting for Delay Variations	USP 5,675,644	
	(11) Mobile Station Assisted Soft Handoff in a CDMA Cellular Communications System	USP 5,267,261	
	(12) Signal Acquisition Via repeated Access Probe Transmission	USP 08/558,557	
	(13) Frequency Tracking for Orthogonal Walsh Modulation	USP 08/625,481	
	(14) Method and Apparatus for Decoding Variable Rate Data	USP 08/741,273	
	(15) Method and Apparatus for Adjacent Coverage Area Handoff in Communication System	USP 08/722,330	
	(16) Method and Apparatus for Providing Centralized Power Control Administration for a Set of Base Stations	USP 5,884,187	
	(17) Method and Apparatus for Eliminating Interference to a Hearing Aid from a Digital Communication Device (CDMA)	USP 08/639,572	
	(18) Method and Apparatus for Hard Handoff in a CDMA System	USP 5,848,063	
(19) Method and Apparatus for Performing Preferred System Selection	USP 5,870,674		

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

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO.	REMARKS
Qualcomm Incorporated	(20) Inter-System Calling Supporting Inter-System Soft Handoff	USP 08/648,959	
	(21) Method and Apparatus for Measurement Directed Hard Handoff In a CDMA System	USP 08/652,726	
	(22) Method and Apparatus for Providing Signal Diversity in a CDMA Communication System	USP 08/651,430	
	(23) ROM-Based Finite Impulse Response Filter for Use in Mobile Telephone	USP 5,870,431	
	(24) Method and System for Providing a Cone of Silence in a Cellular Communication System	USP 5,828,661	
	(25) Method and Apparatus for Performing Idle Handoff in a Multiple Access Communication System	USP 08/660,436	
	(26) Method and Apparatus for Providing Rate Scheduled Data in a Spread Spectrum Communication System	USP 08/656,649	
	(27) Method and Apparatus of Power Control in a CDMA Dispatch System	USP 08/660,618	
	(28) High Data Rate CDMA Wireless Communication System	USP 5,930,230	

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

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO.	REMARKS
Qualcomm Incorporated	(29) Reduced Peak-to-Average Transmit Power High Data Rate in a CDMA Wireless Communication System	USP 5,926,500	
	(30) Bright and Burst Mode Signaling Data Transmission in an Adjustable Rate Wireless Communication System	USP 5,909,434	
	(31) Method and Apparatus for Measuring Link Quality in a Spread Spectrum Communication System	USP 08/722,763	
	(32) Using a Signal With Increased Power for Determining the Position of a Mobile Subscriber in a CDMA Cellular telephone System	USP 08/659,407	
	(33) Load Monitoring and Management in a CDMA Wireless Communication System	USP 5,859,838	
	(34) Method and Apparatus for Determining the Rate of Received Data in a Variable Rate Communication Systems	USP 5,751,725	
	(35) Coherent Signal Processing for CDMA Communication System	USP 5,987,076	
	(36) Asoft Dewcision Output Decoder for Decoding Convolutionally Encoded Codewords	USP 08/743,688	
	(37) Method and Apparatus for Providing High Speed Data Communications in a Cellular Environment	USP 08/741,320	

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

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO.	REMARKS
Qualcomm Incorporated	(38) Method and Apparatus for Resolving Phase Ambiguities in Trellis-Coded Modulated Data	USP 5,233,630	
	(39) Method and Apparatus for Performing a Fast Downward Move in a Cellular Telephone Forward Link Power	USP 5,960,361	
	(40) Method and Apparatus for Performing Rate Determination	USP 5,872,775	
	(41) Viterbi Decoder Bit Efficient Chainback Memory Method and Decoder Incorporating Same	USP 5,469,452	
	(42) Method for Determining Speech Encoding Rate in a Variable Rate Vocoder	USP 5,341,456	
	(43) trellis Encoder and Decoder Based Upon Punctured Rate 1/2 Convolutional Codes	USP 5,633,881	
	(44) Mobile Station Operating in an Analog Mode and for Subsequent Hand-off to Another System	USP 5,509,035	
	(45) Temperature-Compensated Gain-Controlled Amplifier Having a Wide Linear Dynamic Range	USP 5,408,697	
	(46) Double-talk Detection by Means of Spectral Control	USP 5,732,134	

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

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO.	REMARKS
Qualcomm Incorporated	(47) Layered Channel Element in a Base Station Modem for a CDMA Cellular Communication System  (48) Serial Linked Interconnect for Summation of Multiple Waveforms on a Common Channel  (49) Method and Apparatus for Modulating Signal Waveforms in a CDMA Communication System	USP 5,511,067  USP 5,724,385  USP 5,497,395	

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

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO.	REMARKS
Siemens AG	<p>(1)Method and arrangement for joint channel estimation in a digital multiple access communication system</p> <p>(2) Method and arrangement for transmitting information in a digital radio system</p> <p>(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.</p> <p>(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.</p>	<p>Germany 4 212 300</p> <p>USP 5,648,967</p> <p>Germany 19747453</p> <p>Germany 19840232</p>	<p>Germany ** pending IPRs in other countries</p> <p>Germany ** pending IPRs in other countries</p>

**(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 TELEPHONE 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 TELEPHONE 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 TELEPHONE 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 TELEPHONE 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
	( 8 ) SPREAD CPDE GENERATION DEVICE FOR SPREAD SPECTRUM COMMUNICATION	Application No. 426,254 Patent No. 5,631,922	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) Channel Communication Device and Method for CDMA Communication System	P19980011381	Applied in Korea (South)
	( 2) Device and Method for Exchanging Frame Messages of Different Lengths in CDMA Communication System	P19990008667	Applied in Korea (South)
	( 3) Gated Transmission in Control Hold State in CDMA Communication System	P19990030939	Applied in Korea (South)
	( 4) Power Control Device and Method for Controlling a Reverse Link Common Channel in a CDMA Communication System	P19990009896	Applied in 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  ( 2) Handover method for mobile radio system	US-36078  US-36079	Applied in Germany, Spain, France, United Kingdom, Hong Kong, Italy, Netherlands, Norway, Sweden, Singapore, United States
Ericsson GE Mobile Communications Inc.	( 3) Decoding system for distinguishing different types of convolutionally-encoded signals	US-5230003	Applied in United Kingdom, Hong Kong, Korea (South), Singapore, United States
Telefonaktiebolaget LM Ericsson	( 4) Method of carrying out an authentication check between a base station and a mobile station in a mobile radio system	US-5282250	Applied in Austria, Australia, Belgium, Brazil, 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
Ericsson GE Mobile Communications Inc.	( 5) Fast walsh transform processor	US-5357454	Applied in France, United Kingdom, Singapore, Taiwan, United States

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

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO.	REMARKS
Ericsson Inc.	( 6) Authentication key entry in cellular radio system	US-5551073	Applied in Australia, Taiwan, United States
Telefonaktiebolaget LM Ericsson	( 7) Handover without notice	EP-537795	Applied in Germany, Spain, France, United Kingdom, Italy, Netherlands, Sweden
	( 8) CDMA frequency allocation	US-5341397	
	( 9) Method of carrying out an authentication check between a base station and a mobile station in a mobile radio system	US-5390245	
	(10) Method of carrying out an authentication check between a base station and a mobile station in a mobile radio system	US-5559886	
Ericsson Inc.	(11) Navigation assistance for call handling in mobile telephone systems	US-5670964	
	(12) Multiple access coding for radio communications	US-5742678	
	(13) Multiple access coding for radio communications	US-5771288	

**(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
Nokia Mobile Phones Ltd.	( 1) CDMA radiotelephone having optimized slotted mode and long code operation  ( 2) Data transmission in a radio telephone network  ( 3) Method and system for detection of fraudulent cellular telephone use  ( 4) Framing technique for a multi-rate CDMA communication system  ( 5) Multicast transmission for DS-CDMA cellular telephones	US 5491718  US 5802465  US 5822691  US 5859843  US 5887252	
<del>Nokia Telecommunications Ltd.</del>	<del>( 1) A connection establishment method, a subscriber terminal unit and a radio system</del>	<del>WO 9729596A2</del>	<del>Deleted at 73rd ARIB Standard Assembly.</del>
University de Sherbrooke	( 1) Dynamic codebook for efficient speech coding based on algebraic code  ( 2) Fast sparse-algebraic-codebook search for efficient speech coding	US 5,444,816  US 5,699,482	Nokia has the exclusive license with the right to grant sub-licenses in regard of this patent  Nokia has the exclusive license with the right to grant sub-licenses in regard of this patent

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

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO.	REMARKS
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

**(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 therefor	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 its transmission power control method	08/985281	Applied in United States
	( 8) CDMA communication system and its transmission power control method	97121324.4	Applied in EPC
	( 9) CDMA communication system and its transmission power control method	97121324.4	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 its transmission power control method	97121324.4	Applied in Germany
	(11) CDMA communication system and its transmission power control method	97121324.4	Applied in France
	(12) CDMA communication system and its transmission power control method	97121324.4	Applied in Sweden
	(13) CDMA communication system and its transmission power control method	97121324.4	Applied in Finland
	(14) CDMA communication system and its transmission power control method	63887/97	Applied in Korea (South)
	(15) CDMA communication system and its transmission power control method	97125446.X	Applied in China
	(16) CDMA communication system and its transmission power control method	2250/CAL/97	Applied in India
	(17) CDMA communication system and its transmission power control method	P19705877	Applied in Malaysia
(18) CDMA communication system and its transmission power control method	041105	Applied in Thailand	



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

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO.	REMARKS
Hitachi, Ltd./ KDD Corp.	( 1) 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 Austria, Canada, France, England, Germany, Italy, Netherlands, Switzerland PCT/US99/04868

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

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO.	REMARKS
Universite de Sherbrooke	(1)Method and device for eradicating instability due to periodic signals in analysis-by-synthesis speech codecs	US 5893060	Applied in US A license is available under this patent only for ACELP (IS-641) based speech codecs for the IMT-2000 MC-CDMA system.
	(2)Instability eradication for analysis-by-synthesis speech codecs	US 5987406	Applied in US A license is available under this patent only for ACELP (IS-641) based speech codecs for the IMT-2000 MC-CDMA system
	(3)Method and device for eradicating instability due to periodic signals in analysis-by-synthesis speech codecs	US 5893060	Applied in US A license is available under this patent only for ACELP (IS-641) based speech codecs for the IMT-2000 MC-CDMA system.
	(4)Instability eradication for analysis-by-synthesis speech codecs	US 5987406	Applied in US A license is available under this patent only for ACELP (IS-641) based speech codecs for the IMT-2000 MC-CDMA system.

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

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO.	REMARKS
Nokia Mobile Phones Limited	(5)CDMA radiotelephone having optimized slotted mode and long code operation	US 5491718	Applied in US
	(6)Exchange of system and terminal capabilities over the same analog control channel	US 5924026	Applied in US
	(7)Control structures for contention-based packet data services in wideband CDMA	US 6393008	Applied in US
	(8)Mobile assisted hard hand-off for a code division multiple access (CDMA) system	US 6078570	Applied in US
	(9)Access channel for reduced access delay in a telecommunications system	US 6775548	Applied in US
	(10)Method and apparatus for power control on a common channel in a telecommunication system	09/165456	Applied in US

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

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO.	REMARKS
Nokia Mobile Phones Limited	(11)Selective discontinuous transmission for high speed data services in CDMA multi-channel configuration	09/694698	Applied in US
Nokia Telecommunication s Oy	(12)Control of handover and transmission power control of mobile station in a mobile telecommunications system	US 5991627	Applied in US
	(13)High-speed data transmission in mobile communication networks	US 5956332	Applied in US
	(14)Multichannel high-speed data transfer	US 5793744	Applied in US
	(15)Method and arrangement for high-speed data transmission in a mobile telecommunications system	US 6775548	Applied in US
Nokia Networks Oy	(16)Robust and efficient compression of list of items	09/756232	Applied in US

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

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO.	REMARKS
Motorola, Inc	DATA TRANSMISSION WITHIN A SPR EAD-SPECTRUM COMMUNICATION SYSTEM	US 6,233,231	US,BR,EP
	TRANSMIT DIVERSITY TRANSMITTER AND RECEIVER FOR RADIO COMMUNICATIONS SYSTEM	EP1198904	US,EP,CA,CN
	METHOD FOR SYNCHRONIZING A MOBILE STATION TO UMTS WHILE OPERATING IN GSM DEDICATED MODE	US 6,424,637	US
	METHOD AND APPARATUS FOR POSIT IONING GSM MOBILE STATIONS	US 6,212,391	US,EP
	METHOD AND APPARATUS FOR PROVIDING TRANSMIT DIVERSITY IN A WIRELESS COMMUNICATION SYSTEM	US 5,940,445	US,IN
	METHOD AND APPARATUS FOR CONTROLLING TRANSMIT DIVERSITY IN A COMMUNICATION SYSTEM	US 6,141,542	US
	DIGITAL SPEECH CODER HAVING IMPROVED LONG TERM LAG PARAMETER DETERMINATION	US 5,097,508 2-228531	US,BE,CA,FR,GB,DE,IT,NL,CH
	METHOD AND APPARATUS FOR ENCODING MUSIC INTO SEVEN-BIT CHARACTERS THAT CAN BE COMMUNICATED IN AN ELECTRONIC MESSAGE	US 6,291,756	US

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

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO.	REMARKS
NOKIA MOBILE PHONES LIMITED	SELECTIVE DISCONTINUOUS TRANSMISSION FOR HIGH SPEED DATA SERVICES IN CDMA MULTI-CHANNEL CONFIGURATION	US 6510148	US
	CONTROL STRUCTURES FOR CONTENTION-BASED PACKET DATA SERVICES IN WIDEBAND CDMA	US 6393008	US
NOKIA NETWORKS OY	DATA TRANSMISSION METHODS IN A TELECOMMUNICATION SYSTEM	WO 99/63703	US EP WO

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

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO.	REMARKS
NOKIA NETWORKS OY	METHOD AND NETWORK ELEMENT FOR CONNECTING A SUBSCRIBER TO A CELLULAR TELECOMMUNICATIONS NETWORK	WO 99/67960	European Patent Convention, United States
NOKIA CORPORATION	APPARATUS, AND ASSOCIATED METHOD FOR CONTROLLING SERVICE DEGRADATION PERFORMANCE OF COMMUNICATION IN A RADIO COMMUNICATION SYSTEM	US6556824	United States



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

PATENT HOLDER	NAME OF PATENT	REGISTRATIONNO./ APPLICATION NO.	REMARKS
NOKIA TELECOMMUNIC ATIONS OY ; AHMAVAARA KALLE * <sup>33</sup>	RADIO SYSTEM AND METHODS FOR DUPLEX OPERATION	WO98/32236	European Patent Convention, United States
NOKIA CORP ; WESTMAN ILKKA; TUOHINO MARKKU * <sup>33</sup>	COMMUNICATION SYSTEM AND METHOD FOR ESTABLISHING A CONNECTION TO A SERVING NETWORK ELEMENT	WO02/47415	European Patent Convention, United States
NOKIA MOBILE PHONES LTD * <sup>33</sup>	METHOD FOR TRANSMITTING PACKET DATA WITH HYBRID FEC/ARG TYPE II	EP0771092	European Patent Convention, Germany, France, Great Britain, United States

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

PATENT HOLDER	NAME OF PATENT	REGISTRATIONNO./ APPLICATION NO.	REMARKS
Nokia Telecommunications Oy * <sup>33</sup>	METHOD AND SYSTEM FOR FORWARD LINK CELL SWITCHING APPROACH WITHOUT ABIS TRAFFIC FLOODING IN CDMA2000-1X EV-DV SYSTEM	US20040246917	United States
	APPARATUS, AND ASSOCIATED METHOD, FOR REQUESTING DATA RETRANSMISSION IN A PACKET RADIO COMMUNICATION SYSTEM	US20040085943	United States
	SETTING A COMMUNICATION CHANNEL	US20010036175	United States
	ROUTING AREA UPDATING IN PACKET RADIO NETWORK	US6661782	United States

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

PATENT HOLDER	NAME OF PATENT	REGISTRATIONNO./ APPLICATION NO.	REMARKS
<p>Nokia Networks Oy *<sup>33</sup></p> <p>NOKIA CORPORATION , NOKIA, INC. *<sup>33</sup></p>	<p>A METHOD FOR SETTING UP AN INCOMING CALL TO A MOBILE RADIO IN A CELLULAR MOBILE RADIO NETWORK</p> <p>APPARATUS, AND ASSOCIATED METHOD, FOR FACILITATING RETRANSMISSION OF DATA PACKETS IN A PACKET RADIO COMMUNICATION SYSTEM THAT UTILIZES A FEEDBACK ACKNOWLEDGMENT SCHEME</p>	<p>EP0520049</p> <p>WO 05/004374</p>	<p>European Patent Convention, Austria, Australia, Belgium, Switzerland, Germany, Finland, France, Great Britain, Italy, Netherlands, Norway, Sweden</p> <p>Patent Cooperation Treaty, United States</p>

(Reference : Not applied in Japan)

PATENT HOLDER	NAME OF PATENT	REGISTRATIONNO./ APPLICATION NO.	REMARKS
Nokia Networks Oy * <sup>34</sup>	A METHOD FOR SETTING UP AN INCOMING CALL TO A MOBILE RADIO IN A CELLULAR MOBILE RADIO NETWORK	EP0520049	Austria, Australia, Belgium, Switzerland, Germany, European Patent Convention, Finland, France, Great Britain, Italy, Netherlands, Norway, Sweden
NOKIA CORPORATION, NOKIA, INC. * <sup>34</sup>	<del>APPARATUS, AND ASSOCIATED METHOD, FOR FACILITATING RETRANSMISSION OF DATA PACKETS IN A PACKET RADIO COMMUNICATION SYSTEM THAT UTILIZES A FEEDBACK ACKNOWLEDGMENT SCHEME</del>  Apparatus, and associated method, for facilitating multicast and broadcast services in a radio communication system	<del>WO 05/004374</del>  US20030054807	<del>Patent Cooperation Treaty, United States</del> <b>Deleted at 73rd ARIB Standard Assembly.</b>  United States
NOKIA NETWORKS OY * <sup>34</sup>	INTERWORKING IN A COMMUNICATION SYSTEM	WO 01/67687	European Patent Convention, United States

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

PATENT HOLDER	NAME OF PATENT	REGISTRATIONNO./ APPLICATION NO.	REMARKS
NOKIA CORPORATION * <sup>34</sup>	TRANSMISSION OF SERVICE DATA	WO 02/39757	European Patent Convention, United States
	APPARATUS AND METHOD FOR MEASURING AND RECORDING MOVEMENT OF A MOBILE STATION USING A MOBILE NETWORK	US 6611788	United States
	CHARGING IN COMMUNICATION NETWORKS	WO 02/096085	European Patent Convention, United States
<del>NOKIA CORPORATION</del> <del>NOKIA, INC.</del> * <sup>34</sup>	<del>APPARATUS, AND ASSOCIATED METHOD, FOR SELECTING QUALITY OF SERVICE RELATED INFORMATION IN A RADIO COMMUNICATION SYSTEM</del>	<del>WO 05020597</del>	<del>United States, Patent Cooperation Treaty, Taiwan, Malaysia</del> <b>Deleted at 73rd ARIB Standard Assembly.</b>

\*<sup>33</sup>: These patents are applied to the revised part of ARIB STD-T64 Ver.3.30

\*<sup>34</sup>: These patents are applied to the revised part of ARIB STD-T64 Ver.3.40

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

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO.	REMARKS
NOKIA CORPORATION * <sup>40</sup>	SCHEDULING, MODULATION AND CODING FOR SUPPORTING QUALITY OF SERVICE IN RADIO CHANNELS  CHARGING IN COMMUNICATION NETWORKS	WO 02/082829  WO 02/096085	WO, US  WO, US, EP, GB, ZA

\*<sup>40</sup>: These patents are applied to the revised part of ARIB STD-T64 Ver.4.00.

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

PATENT HOLDER	NAME OF PATENT	REGISTRATION NO./ APPLICATION NO.	REMARKS
NOKIA CORPORATION * <sup>41</sup>	Network-initiated change of mobile phone parameters	US6047071	US

\*<sup>41</sup>:These patents are applied to the revised part of ARIB STD-T64 Ver.4.10.

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

PATENT HOLDER	NAME OF PATENT	REGISTRATIONNO./ APPLICATION NO.	REMARKS
NOKIA CORPORATION *45	<del>Secure dialing in mobile telephone system</del>	<del>US 5940515</del>	<del>US</del> <b><u>Deleted at 70th ARIB Standard Assembly.</u></b>
	Mobile station originated SMS using digital traffic channel	US 6097961	US, AR, BR
	A METHOD AND A DEVICE FOR ERASING A NOTIFICATIN MESSAGE	US 09/696646	US, FI
	WTA based over the air management (OTAM) method and apparatus	US 6799203	US

\*45: These patents are applied to the revised part of ARIB STD-T64 Ver.4.50



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

PATENT HOLDER	NAME OF PATENT	REGISTRATIONNO./ APPLICATION NO.	REMARKS
NOKIA CORPORATION * <sup>46</sup>	Method, apparatus and computer program product providing bootstrapping mechanism selection in generic bootstrapping architecture (GBA)	US2006/0282882	US

\*<sup>46</sup>:These patents are applied to the revised part of ARIB STD-T64 Ver.4.60

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

PATENT HOLDER	NAME OF PATENT	REGISTRATIONNO./ APPLICATION NO.	REMARKS
NTT ドコモ * <sup>30</sup>	<p>Mobile communication system with reliable handover scheme</p> <p>Method and system for mobile communications</p> <p>CDMA mobile communication scheme with effective use of sector configuration</p>	<p>US 08/578,537 米国特許第 5,920,817 号</p> <p>US 09/403,431 米国特許第 7,236,787 号</p> <p>US 08/821,347 米国特許第 6,011,787 号</p>	<p>EP (DE, GB, SE, IT)</p> <p>US, CN, KR, CA, EP (DE, FR, GB, IT, SE)</p> <p>CN, KR, CA, EP (DE, FR, GB, IT, SE)</p>

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

PATENT HOLDER	NAME OF PATENT	REGISTRATIONNO./ APPLICATION NO.	REMARKS
NOKIA CORPORATION *48	Method and apparatus for reducing synchronization delay in packet switched voice terminals using speech decoder modification	US 2008/0235009	US

\*30: These patents are applied to the revised part of ARIB STD-T64 Ver.3.00

\*48: These patents are applied to the revised part of ARIB STD-T64 Ver.4.80

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

PATENT HOLDER	NAME OF PATENT	REGISTRATIONNO./ APPLICATION NO.	REMARKS
QUALCOMM Incorporated *45	Method and apparatus for performing handoff in a high speed communication system	US7,206,580	US20070123261
	System for transmitting and receiving short message service (SMS) messages	US6,505,052	US6,760,584, US7,113,783, BR, EP, TW, WO
	Enhanced Channel Interleaving for Optimized Data Throughput	US6,987,778	US20060114910
	Method and Apparatus for Selecting a Serving Sector in a Data Communication System	US6,757,520	US7,177,648, CN, HK, IN, MX, TW, WO
	Method and Apparatus for Adaptive Server Selection in a Data Communication System	US7,239,847	US20070153687, BR, IL, KR, SG, TW, WO
	Channel Allocations in a Communications System	US20030063606	
	Method and Apparatus for Processing Shared Sub-packets in a Communication System	US7,167,461	US20070076713
	Feedback of Channel Quality Information	US7,245,598	US20070287487
	Method and Apparatus for Scrambling Information BITS on a Channel in a Communications System	US20030161471	
	Channel Allocations in a Communications System	US7,298,718	

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

PATENT HOLDER	NAME OF PATENT	REGISTRATIONNO./ APPLICATION NO.	REMARKS
QUALCOMM Incorporated *45	Method and Apparatus for Channel Management for Point-to-Multipoint Services in a Communication System	US20020181423	CN, HK, IN, MX, TW, WO
	System and method for scheduling transmissions in a wireless communication system	US20050003843	
	Method and apparatus for efficient candidate frequency search while initiating a handoff in a code division multiple access communication system	US6,597,922	EP, ID
	Transmit gating in a wireless communication system	US6,545,989	US6,771,620, DE, EP, FR, GB, WO
	Configuration of overhead channels in a mixed bandwidth system	US6,925,067	US7,486,653, US7,447,189, US7,508,790
	Method and apparatus for supervising a potentially gated signal in a wireless communication system	US7,054,284	
	Method and Apparatus for the Transmission of Energy-Scaled Variable Rate Data	US5,841,806	US6,618,429, US7,003,021, US20060088134, US5,715,236
	System and Method for Generating Signal Waveforms in a CDMA Cellular Telephone System	US5,778,338	

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

PATENT HOLDER	NAME OF PATENT	REGISTRATIONNO./ APPLICATION NO.	REMARKS
QUALCOMM Incorporated *45	Apparatus and Method for Reducing Message Collision Between Mobile Stations Simultaneously Accessing a Base Station in a CDMA Cellular Communications System	US6,615,050	US6,985,728, US20060121897, US20070111680, US7,426,391
	System and Method for Orthogonal Spread Spectrum Sequence Generation in Variable Data Rate Systems	US5,751,761	US6,185,246
	Method and apparatus for determining the transmission data rate in a multi-user communication system	US20070033018	
	Method and Apparatus for Performing Handoff Between Sectors of a Common Base Station	US5,933,787	
	Method and Apparatus for Reducing the Average Transmit Power of a Base Station	US6,157,668	US6,546,058
	Method for Handling Unrecognized Commands in a Wireless Environment	US5,737,708	
	Method and apparatus for performing speech frame encoding mode selection in a variable rate encoding system	US6,240,387	US6,484,138

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

PATENT HOLDER	NAME OF PATENT	REGISTRATIONNO./ APPLICATION NO.	REMARKS
QUALCOMM Incorporated *45	Method for Providing Service and Rate Negotiation in a Mobile Communication System	US5,818,871	US6,421,374, US7,072,388, US20060239363, CA, CL, CN
	Method and Apparatus for Providing Broadcast Messages in a Communications Network	US7,035,627	US20060099979
	Method and Apparatus for Performing Fast Power Control in a Mobile Communication System	US6,317,587	US7,013,160, US20060094460, US6,876,867, US20050181817
	Method and Apparatus for Performing Idle Handoff in a Multiple Access Communication System	US6,674,736	US7,496,073, US6,654,611
	High Data Rate CDMA Wireless Communication System	US6,424,619	US6,535,496, US6,728,230
	High Data Rate CDMA Wireless Communication System Using Variable Sized Channel Codes	US6,678,311	US6,621,875
	High Data Rate CDMA Wireless Communication System	US6,396,804	US6,549,525, US20030152051
	High-Data-Rate Supplemental Channel for CDMA Telecommunications System	US6,173,007	US6,501,787, US6,842,477, US6,574,210, US5,949,814, US6,298,051

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

PATENT HOLDER	NAME OF PATENT	REGISTRATIONNO./ APPLICATION NO.	REMARKS
QUALCOMM Incorporated *45	Method and Apparatus for Performing Soft Hand-off in a Wireless Communication System	US RE39,177	
	Method and Apparatus for Providing an Alert with Information Signal Between a Mobile Switching Center and a Base Station	US6,870,823	US6,181,942, US20050174970
	Method and Apparatus for Performing Mobile Assisted Hard Handoff Between Communication Systems	US6,304,755	US6,810,254
	Method and Apparatus for Forward Link Power Control	US6,757,320	US20040258024, US20090052573
	Dual Channel Slotted Paging	US6,111,865	
	Reduced Peak-To-Average Amplitude Multichannel Link	US6,535,478	
	Method and Apparatus for Providing Orthogonal Spot Beams, Sectors, and Picocells	US7,031,282	US20060209808
	Channel Structure for Communication Systems	US6,377,809	US09/503,401, US6,167,270, US6,526,030, AU
Apparatus and Method for Supporting Analog Fax Calls in a Tandem Configuration	US6,281,988	US6,819,454, US7,072,079	



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

PATENT HOLDER	NAME OF PATENT	REGISTRATIONNO./ APPLICATION NO.	REMARKS
QUALCOMM Incorporated *45	Method and Apparatus for High Rate Packet Data Transmission	US7,079,550	US7,184,426, US20060280160, US20070019608, US20070025268, US20070066235, US20070066320, US20070019567, US20070025267, US20070025260, US20070025321, US20070025269, US20070025319, US20070025320
	Method and System for Performing a Handoff in a Wireless Communication system, such as a Hard Handoff	US6,603,751	US7,242,935, US20070213063, EP, ES, FI, FR, GB, HK, IE, IT, NL, SE, WO
	Method and System for performing handoff in wireless communication systems	US7,245,597	US20070064640
	Method and apparatus for transmitting and receiving variable rate data	US7,315,531	US20080030363
	Method for Robust Handoff in Wireless Communication System	US7,233,794	US20070105584
	Method and Apparatus for Performing Idle Handoff in a Multiple Access Communication System	US7,006,470	US20060140152
	Reservation Multiple Access	US6,987,982	US20060040702, US12/366,422

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

PATENT HOLDER	NAME OF PATENT	REGISTRATIONNO./ APPLICATION NO.	REMARKS
QUALCOMM Incorporated * <sup>45</sup>	Overhead message update with decentralized control	US7,483,699	
	Low Bit-Rate Coding of Unvoiced Segments of Speech	US6,463,407	US6,820,052, US7,146,310
	Turbo code interleaver using linear congruential sequences	US6,637,000	
	Multiple mode variable rate speech coding	US6,691,084	US7,136,812, US7,496,505
	Method for negotiating weakened keys in encryption systems	US6,578,143	US6,742,115, US7,366,895
	Method and apparatus for variable and fixed forward link rate control in a mobile radio communication system	US6,560,211	CN
	System and method for persistence-vector-based rate assignment	US6,965,613	US20050276280, US20070223528

\*<sup>45</sup>: These patents are applied to the revised part of ARIB STD-T64 Ver.4.50.

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

PATENT HOLDER	NAME OF PATENT	REGISTRATIONNO./ APPLICATION NO.	REMARKS
NOKIA CORPORATION * <sup>50</sup>	LOAD CONTROL METHOD AND APPARATUS FOR CDMA CELLULAR SYSTEM HAVING CIRCUIT AND PACKET SWITCHED TERMINALS  Method, apparatus and computer program providing network-associated system priority list for multimode system selection	US 5790534  WO 2006/109159	CN, EP, TW, US

\*<sup>50</sup>: These patents are applied to the revised part of ARIB STD-T64 Ver.5.00.

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

PATENT HOLDER	NAME OF PATENT	REGISTRATIONNO./ APPLICATION NO.	REMARKS
QUALCOMM Incorporated *10	Tandem-Free Intersystem Voice Communication	US 7,406,096	CN, HK, IN, MX,
			US 20080288245
	Method and apparatus for an adaptive de-jitter buffer in a wireless communication system	US 20060056383	
	Method and apparatus for flexible packet selection in a wireless communication system	US 20060050743	
	Method and apparatus for processing packetized data in a wireless communication system	US 20060045139	
	Selection of encoding modes and/or encoding rates for speech compression with open loop re-decision	US 20070219787	
	Selection of encoding modes and/or encoding rates for speech compression with closed loop re-decision	US 20070244695	
	Arbitrary average data rates for variable rate coders	US 20070171931	
	Systems, methods, and apparatus for gain factor smoothing	US 20060277039	CN, EP, IN, KR, TW
Systems, methods, and apparatus for gain factor attenuation	US 20060282262	CN, EP, IN, KR, TW	

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

PATENT HOLDER	NAME OF PATENT	REGISTRATIONNO./ APPLICATION NO.	REMARKS
QUALCOMM Incorporated *10	Method for Determining Speech Encoding Rate in a Variable Rate Vocoder  Method and Apparatus for Establishing TDD/TTY Service Over Vocoded Channels	US 5,341,456  US 6,205,339	CN, SG

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

PATENT HOLDER	NAME OF PATENT	REGISTRATIONNO./ APPLICATION NO.	REMARKS
NOKIA CORPORATION * <sup>50</sup>	Method of data transfer and data interface unit	US 08/889708, 6507590	

\*<sup>10</sup>: These patents are applied to the part defined by ARIB STD-T64 Ver.1.00.

\*<sup>50</sup>: This patent is applied to the revised part of ARIB STD-T64 Ver.5.00.

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

PATENT HOLDER	NAME OF PATENT	REGISTRATIONNO./ APPLICATION NO.	REMARKS
NOKIA CORPORATION * <sup>54</sup>	Hard handoff and a radio system	WO1997FI00450, 199804094	CN, EP, US
	Method supporting the quality of service of data transmission	US09/237513, 6501741	DE, EP, FI, GB
	Apparatus, and associated method, for facilitating selection of power levels at which to communicate data in a radio communication system	US09/943856, 6819935 and US11/599639, 7623504	CN
	Method of determine 'out of coverage	US10/625893	EP
	Registering a user in a communication network	EP20010955348, 1380137	DE, US

\*<sup>54</sup>: These patents are applied to the revised part of ARIB STD-T64 Ver.5.40.

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

PATENT HOLDER	NAME OF PATENT	REGISTRATIONNO./ APPLICATION NO.	REMARKS
NOKIA CORPORATION * <sup>57</sup>	Method and apparatus for providing acknowledgement signaling in a multi-carrier communication system	US 20060389752	CN
	Speech codecs	US 20030676269	US-DIV
	Method, apparatus and computer program providing for rapid network selection in a multimode device	US 20050107495	CN, EP
	APPARATUS AND METHOD FOR REQUESTING INITIATION OF A COMMUNICATION SESSION USING CAPABILITY CONFIGURATION PARAMETERS WITH CARD APPLICATION TOOLKIT	US 20060279304	CN, SG

\*<sup>57</sup>: These patents are applied to the revised part of ARIB STD-T64 Ver.5.70.



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

[Ver. 5.90]

PATENT HOLDER	NAME OF PATENT	REGISTRATIONNO./ APPLICATION NO.	REMARKS
NOKIA CORPORATION	Method for indicating enciphering of data transmission between a mobile communication network and a mobile station  Method and apparatus for providing acknowledgement signaling in a multi-carrier communication system  APPARATUS AND METHOD FOR REQUESTING INITIATION OF A COMMUNICATION SESSION USING CAPABILITY CONFIGURATION PARAMETERS WITH CARD APPLICATION TOOLKIT	US 19960763970, US 6249584  US 20060389752, US 2006268720  US 20060279304, US 7996041	US-CONT, US-DIV, SE, GB, EP, FI, FR, DE  CN  CN