

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
ArrayComm LLC	10/02/2008
RECEIVING PARTY DATA	
Name:	Intel Corporation
Street Address:	2200 Mission College Blvd.
City:	Santa Clara
State/Country:	CALIFORNIA
Postal Code:	95052
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	13205553
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Total Attachments: 21 source=42P27989X_ArrayComm_LLC_to_Intel#page1.tif source=42P27989X_ArrayComm_LLC_to_Intel#page2.tif source=42P27989X_ArrayComm_LLC_to_Intel#page3.tif source=42P27989X_ArrayComm_LLC_to_Intel#page4.tif source=42P27989X_ArrayComm_LLC_to_Intel#page5.tif	

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EXHIBIT**

Assignment of Patent Rights

Whereas, ArrayComm LLC, a Delaware limited liability company, with an office at 1520 Kensington Road, Suite 310, Oak Brook, Illinois 60523 (hereinafter "ASSIGNOR") is the sole and exclusive owner of certain United States and/or foreign patents and/or patent applications listed in Exhibit A annexed hereto (collectively referred to as the "Patents"); and

Whereas, Intel Corporation, a Delaware corporation, with an office at 2200 Mission College Blvd., Santa Clara, California 95052 (hereinafter "ASSIGNEE") is desirous of acquiring the right, title and interest in, to and under the said Patents (and all foreign counterparts and related foreign patents).

Now, Therefore,

For good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR does hereby sell, assign, transfer and set over to ASSIGNEE, the Patents aforesaid, and any inventions claimed in said Patent, any reissue or reissues of said Patents already granted and which may be granted, any certificates of reexamination already granted and which may be granted the same to be held and enjoyed by ASSIGNEE for its own use and enjoyment, and for the use and enjoyment of its successors, assigns or other legal representatives, to the end of the term or terms for which said Patents are or may be granted, reissued or extended as fully and entirely as the same would have been held and enjoyed by ASSIGNOR, if this assignment and sale had not been made; together with all claims for damages by reason of past infringement of said Patents, with the right to sue for, and collect the same for its own use and behalf, and for the use and behalf of its successors, assigns or other legal representatives.

And, ASSIGNOR, hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all Letters Patents of the United States on said inventions to ASSIGNEE as assignee of the entire interest, and hereby covenants that ASSIGNOR has full right to convey the entire interest herein assigned, and that, except as otherwise provided between the parties, ASSIGNOR has not executed, and will not execute, any agreements in conflict therewith.

In Witness Whereof, ASSIGNOR, by its duly authorized representative, has
executed this Assignment.

DATE: October 2, 2008

By:

STEVEN G. STEGER

Printed/Typed Name

Title: CHIEF IP COUNSEL

SG SR

Signature

Exhibit A - Patents

ArrayComm Pending Patent Applications

Matter No.	Country	Filing Date	Serial No.	Title
P001EPD2	EPO	8/14/07	7015957.9	Spatial Division Multiple Access Wireless Communication Systems
P004EPD	EPO	12/1/95	3009673.9	Spectrally Efficient High Capacity Wireless Communication
P004JP	JP	2/1/95	8-522241	Spectrally Efficient High Capacity Wireless Communication
P004JPD	JP	1/20/95	2002-118124	Spectrally Efficient High Capacity Wireless Communication
P011BR	BR	4/9/99	PI 9711898-2	Method and Apparatus for Decision Directed Demodulation Using ANTENNA ARRAYS AND SPATIAL PROCESSING
P011JP	JP	10/10/97	10-518601	Method and Apparatus for Decision Directed Demodulation Using ANTENNA ARRAYS AND SPATIAL PROCESSING
P012BR	BR	4/9/99	PI 9711895-6	Method and Apparatus for Estimating Parameters of a Communications System using Antenna Arrays and Spatial Processing
P013BR	BR	4/9/99	PI 9712288-2	Adaptive Method for Channel Assignment in a Cellular Communication System
P014EP	EPO	10/17/97	97913745.2	Spectrally Efficient High Capacity Wireless Communication Systems with Spatio- Temporal Processing
P014JP	JP	10/17/97	10-519629	Spectrally Efficient High Capacity Wireless Communication Systems with Spatio- Temporal Processing
P015BR	BR	12/30/97	PI 9714121-6	Channel Assignment and Call Admission Control for Spatial Division Multiple Access Communication Systems
P015CND	CN	12/30/97	200810121432.3	Channel Assignment and Call Admission Control for Spatial Division Multiple Access Communication Systems
P015EP	EPO	12/30/97	97953392.4	Channel Assignment and Call Admission Control for Spatial Division Multiple Access Communication Systems
P015EPD	EPO	12/30/97	3009674.7	Channel Assignment and Call Admission Control for Spatial Division Multiple Access Communication Systems
P015JP	JP	12/30/97	10-530154	Channel Assignment and Call Admission Control for Spatial Division Multiple Access Communication Systems
P017EP	EPO	11/24/96	98965970.1	Method and Apparatus for Calibrating Radio Frequency Base Stations Using Antenna Arrays
P017JP	JP	5/24/01	2000-584614	Method and Apparatus for Calibrating Radio Frequency Base Stations Using Antenna Arrays
P019EP	EPO	2/3/99	99905591.6	Downlink Broadcasting by Sequential Transmissions from a Communication Station Having an Antenna Array
P019JP	JP	2/3/99	2000-530959	Downlink Broadcasting by Sequential Transmissions from a Communication Station Having an Antenna Array
P020CND	CN	2/3/99	200710005400.1	Power Control with Signal Quality Estimation for Smart Antenna Communications Systems
P020JP	JP	2/3/99	2000-530987	Power Control with Signal Quality Estimation for Smart Antenna Communications Systems
P020XC2	US	3/15/06	11/377,592	POWER CONTROL WITH SIGNAL QUALITY ESTIMATION FOR SMART ANTENNA COMMUNICATIONS SYSTEMS
P021JP	JP	3/15/01	2000-570918	Method for Reference Signal Generation in the Presence of Frequency Offsets in a Communications Station with Spatial Processing
P023CND	CN	4/22/99	3107215.1	Method and Apparatus for Determining Spatial Signatures with Application to Calibrating a Base Station Having an Antenna Array

Matter No.	Country	Filing Date	Serial No.	Title
P023CND2	CN	4/22/99	03107216.X	Method and Apparatus for Determining Spatial Signatures with Application to Calibrating a Base Station Having an Antenna Array
P023EPD2	EPO	12/7/04	3021411.8	Method and Apparatus for Determining Spatial Signatures with Application to Calibrating a Base Station Having an Antenna Array
P023JP	JP	12/6/00	2000-547706	Method and Apparatus for Determining Spatial Signatures with Application to Calibrating a Base Station Having an Antenna Array
P024C	US	9/19/06	11/523,971	NULL DEEPENING FOR AN ADAPTIVE ANTENNA BASED COMMUNICATION
P026D	US	8/16/02	10/222,106	REPETITIVE PAGING FROM A WIRELESS DATA BASE STATION HAVING A SMART ANTENNA SYSTEM
P026DE	DE	12/15/03	10384345.5	REPETITIVE PAGING FROM A WIRELESS DATA BASE STATION HAVING A SMART ANTENNA SYSTEM
P026JP	JP	6/15/06	2005-512431	REPETITIVE PAGING FROM A WIRELESS DATA BASE STATION HAVING A SMART ANTENNA SYSTEM
P026KR	KR	12/15/03	10-2006-7014223	REPETITIVE PAGING FROM A WIRELESS DATA BASE STATION HAVING A SMART ANTENNA SYSTEM
P027DE	DE	12/12/03	103 94 344.7	NON-DIRECTIONAL TRANSMITTING FROM A WIRELESS DATA BASE STATION HAVING A SMART ANTENNA SYSTEM
P027JP	JP	12/12/03	2005-512417	NON-DIRECTIONAL TRANSMITTING FROM A WIRELESS DATA BASE STATION HAVING A SMART ANTENNA SYSTEM
P027KR	KR	12/12/03	10-2006-7014054	NON-DIRECTIONAL TRANSMITTING FROM A WIRELESS DATA BASE STATION HAVING A SMART ANTENNA SYSTEM
P029JP	JP	4/26/00	2001-578980	MULTIMODE ITERATIVE ADAPTIVE SMART ANTENNA PROCESSING METHOD AND APPARATUS
P030CN	CN	4/20/00	811480.3	Apparatus and Method for Beamforming in a Changing-Interference Environment
P030CND	CN	4/20/00	200510062556	Apparatus and Method for Beamforming in a Changing-Interference Environment
P030EP	EPO	4/20/00	826315.1	Apparatus and Method for Beamforming in a Changing-Interference Environment
P030JP	JP	4/20/00	2001-502373	Apparatus and Method for Beamforming in a Changing-Interference Environment
P031EP	EPO	9/26/01	1973562	DOWNLINK TRANSMISSION IN A WIRELESS DATA COMMUNICATION SYSTEM HAVING A BASE STATION WITH A SMART ANTENNA SYSTEM
P031JP	JP	9/26/01	2002-531641	DOWNLINK TRANSMISSION IN A WIRELESS DATA COMMUNICATION SYSTEM HAVING A BASE STATION WITH A SMART ANTENNA SYSTEM
P031KR	KR	3/27/03	10-2003-7004466	DOWNLINK TRANSMISSION IN A WIRELESS DATA COMMUNICATION SYSTEM HAVING A BASE STATION WITH A SMART ANTENNA SYSTEM
P032JP	JP	11/9/00	2001-537180	Downlink Signal Processing in CDMA Systems Utilizing Arrays of Antennas
P033JP	JP	9/26/01	2002-531764	Mode Switching in Adaptive Array Communications Systems
P034CN	CN	9/26/01	01819625.X	Cooperative Polling in a Wireless Data Communication System Having Smart Antenna Processing
P034JP	JP	9/26/01	2002-531763	Cooperative Polling in a Wireless Data Communication System Having Smart Antenna Processing
P034KR	KR	3/27/03	10-2003-7004465	Cooperative Polling in a Wireless Data Communication System Having Smart Antenna Processing
P036CEP	EPO	9/26/01	1975444.9	Method and Apparatus for Separating Multiple Users in a Shared-Channel Communication System

Matter No.	Country	Filing Date	Serial No.	Title
P036CJP	JP	9/26/01	2002-531646	Method and Apparatus for Separating Multiple Users in a Shared-Channel Communication System
P042CN	CN	7/31/02	2618671	RESOURCE Allocation IN A WIRELESS NETWORK
P042EP	EPO	7/31/02	2748275.1	RESOURCE Allocation IN A WIRELESS NETWORK
P042JP	JP	7/31/02	2003-516202	RESOURCE Allocation IN A WIRELESS NETWORK
P042KR	KR	7/31/02	2004-70001504	RESOURCE Allocation IN A WIRELESS NETWORK
P045CN	CN	10/4/01	1822397.4	Training Sequence For A Radio Communications System
P045EP	EPO	10/4/01	01981830.1 - 2145	Training Sequence For A Radio Communications System
P054	US	9/29/00	09/675,615	Radio Communications System With a Spatially Directed Configuration Message
P062EP	EPO	10/3/01	01979471.8 - 2411	METHOD AND APPARATUS FOR MITIGATING INTER-CHANNEL INTERFERENCE IN ADAPTIVE ARRAY SYSTEMS
P063	US	12/29/00	09/753,266	Channel Allocation Based on Random Plus Planned Processes
P065EP	EPO	10/3/01	1977482.7	Method and Apparatus for Estimating Downlink Beamforming Weights In a Communications System
P068	US	9/22/00	09/668,654	METHOD AND APPARATUS FOR DETERMINING AN OPERATING CONDITION IN A COMMUNICATIONS SYSTEM
P068AUD	AU	8/27/07	2007211955	Method and Apparatus for Determining An Operating Condition In a Communications System
P068EPD	EPO	9/20/01	4010769	Method and Apparatus for Determining An Operating Condition In a Communications System
P068JP	JP	3/21/03	2002-528930	Method and Apparatus for Determining An Operating Condition In a Communications System
P069C	US	10/18/06	11/583,754	Radio Communications System With A Minimal Broadcast Channel
P069JP	JP	3/27/03	2002-531765	Radio Communications System with reduced data rate on the Broadcast Channel
P069KR	KR	3/27/03	2003-7004458	Radio Communications System with reduced data rate on the Broadcast Channel
P083CN	CN	9/26/02	2804221.2	Channel Assignments in a Wireless Communication System having Spatial Channels including Grouping Existing Subscribers in Anticipation of a New Subscriber
P083EP	EPO	9/26/02	2800363	Channel Assignments in a Wireless Communication System having Spatial Channels including Grouping Existing Subscribers in Anticipation of a New Subscriber
P083KR	KR	5/28/03	2003-7007174	Channel Assignments in a Wireless Communication System having Spatial Channels including Grouping Existing Subscribers in Anticipation of a New Subscriber
P090EP	EPO	3/27/02	2764157	SPATIAL PROCESSING AND TIMING ESTIMATION USING A TRAINING SEQUENCE IN A RADIO COMMUNICATIONS SYSTEM
P090KR	KR	3/27/02	2003-7013879	SPATIAL PROCESSING AND TIMING ESTIMATION USING A TRAINING SEQUENCE IN A RADIO COMMUNICATIONS SYSTEM
P093EP	EPO	3/20/02	2721550.8	METHOD AND APPARATUS FOR RESOURCE MANAGEMENT IN A WIRELESS DATA COMMUNICATION SYSTEM
P093KR	KR	3/20/02	2003-7012242	METHOD AND APPARATUS FOR RESOURCE MANAGEMENT IN A WIRELESS DATA COMMUNICATION SYSTEM
P099C	US	3/10/06	11/375,500	ADAPTIVE ANTENNA ARRAY WITH PROGRAMMABLE SENSITIVITY
P100JP	JP	9/27/02	2003-533475	A METHOD AND APPARATUS FOR PROVIDING SPATIAL PROCESSING IN A REMOTE UNIT

Matter No.	Country	Filing Date	Serial No.	Title
P100KR	KR	9/27/02	2004-7004647	A METHOD AND APPARATUS FOR PROVIDING SPATIAL PROCESSING IN A REMOTE UNIT
P105D	US	2/24/06	11/361,440	A METHOD AND APPARATUS FOR ADJUSTING FEEDBACK OF A REMOTE UNIT
P106CN	CN	9/27/02	2823649.1	FREQUENCY DEPENDENT CALIBRATION OF A WIDEBAND RADIO SYSTEM USING NARROWBAND CHANNELS
P106EP	EPO	9/27/02	2799670.1	FREQUENCY DEPENDENT CALIBRATION OF A WIDEBAND RADIO SYSTEM USING NARROWBAND CHANNELS
P106JP	JP	9/27/02	2003-531559	FREQUENCY DEPENDENT CALIBRATION OF A WIDEBAND RADIO SYSTEM USING NARROWBAND CHANNELS
P106KR	KR	9/27/02	2004-7004677	FREQUENCY DEPENDENT CALIBRATION OF A WIDEBAND RADIO SYSTEM USING NARROWBAND CHANNELS
P107CN	CN	11/25/02	2627533	VARIABLE DIVERSITY TRANSMISSION IN A RADIO COMMUNICATIONS SYSTEM BASED ON CHARACTERISTICS OF A RECEIVED SIGNAL
P107KR	KR	11/25/02	10-2004-7008232	VARIABLE DIVERSITY TRANSMISSION IN A RADIO COMMUNICATIONS SYSTEM BASED ON CHARACTERISTICS OF A RECEIVED SIGNAL
P108	US	9/28/01	09/967,048	A SYSTEM AND RELATED METHODS FOR INTRODUCING SUB-CARRIER DIVERSITY IN A WIDEBAND COMMUNICATION SYSTEM
P108	US	9/28/01	09/967,568	A SYSTEM AND RELATED METHODS FOR BEAMFORMING IN A MULTI-POINT COMMUNICATIONS ENVIRONMENT
P109CN	CN	9/27/02	2823767.6	A SYSTEM AND RELATED METHODS FOR BEAMFORMING IN A MULTI-POINT COMMUNICATIONS ENVIRONMENT
P109EP	EPO	9/27/02	2766394.7	A SYSTEM AND RELATED METHODS FOR BEAMFORMING IN A MULTI-POINT COMMUNICATIONS ENVIRONMENT
P109JP	JP	9/27/02	2003-531759	A SYSTEM AND RELATED METHODS FOR BEAMFORMING IN A MULTI-POINT COMMUNICATIONS ENVIRONMENT
P109KR	KR	9/27/02	2004-7004646	A SYSTEM AND RELATED METHODS FOR BEAMFORMING IN A MULTI-POINT COMMUNICATIONS ENVIRONMENT
P110C	US	3/13/07	11/717,913	A SYSTEM AND RELATED METHODS FOR BEAMFORMING IN A MULTI-POINT COMMUNICATIONS ENVIRONMENT
P115C	US	9/12/07	11/853,982	METHOD AND APPARATUS TO PROVIDE MULTIPLE-MODE SPATIAL PROCESSING TO A TERMINAL UNIT
P118C	US	12/12/05	11/301,824	REASSIGNING CHANNELS IN A SPATIAL DIVERSITY RADIO COMMUNICATIONS SYSTEM
P120CN	CN	9/26/02	2623763.3	A SYSTEM AND RELATED METHODS FOR CLUSTERING MULTI-POINT COMMUNICATION TARGETS
P120EP	EPO	9/26/02	2776003.2	A SYSTEM AND RELATED METHODS FOR CLUSTERING MULTI-POINT COMMUNICATION TARGETS
P120JP	JP	9/26/02	2003-533634	A SYSTEM AND RELATED METHODS FOR CLUSTERING MULTI-POINT COMMUNICATION TARGETS
P120KR	KR	9/26/02	2004-7004673	A SYSTEM AND RELATED METHODS FOR CLUSTERING MULTI-POINT COMMUNICATION TARGETS
P123	US	9/28/01	09/967,206	METHOD AND APPARATUS FOR EFFICIENT STORAGE OF TRAINING SEQUENCES FOR PEAK TO AVERAGE POWER CONSTRAINED MODULATION FORMATS
P130	US	3/28/02	10/112,164	CHANNEL ASSIGNMENT BASED ON SPATIAL STRATEGIES IN A WIRELESS NETWORK USING ADAPTIVE ANTENNA ARRAYS
P132D	US	3/6/07	11/715,080	Interference Suppression in a Computer Radio Modems
P141	US	6/28/02	10/187,062	BROADCAST SUPERFRAME WITH VARIABLE REUSE AND INTERFERENCE LEVELS FOR A RADIO COMMUNICATIONS SYSTEM

Matter No.	Country	Filing Date	Serial No.	Title
P142	US	6/20/02	10/175,707	Hopping on Random Access Channels
P142CN	CN	6/20/03	3819799.5	hopping on random access channels
P142EP	EPO	6/20/03	3761195.1	hopping on random access channels
P142KR	KR	6/20/03	10-2004-7020749	hopping on random access channels
P146CA	CA	7/2/03	2491671	SELECTIVE POWER CONTROL MESSAGING
P146CN	CN	7/2/03	3820138	SELECTIVE POWER CONTROL MESSAGING
P146EP	EPO	7/3/03	3742421.5	SELECTIVE POWER CONTROL MESSAGING
P146JP	JP	7/3/03	2004-519821	SELECTIVE POWER CONTROL MESSAGING
P146KR	KR	7/3/03	10-2005-7000074	SELECTIVE POWER CONTROL MESSAGING
P146EP	EPO	9/30/03	3752275.2	SELECTIVE POWER CONTROL MESSAGING
P151C	US	3/9/07	11/716,477	TRANSMIT DIVERSITY WITH FORMED BEAMS IN A WIRELESS COMMUNICATIONS SYSTEM USING A COMMON PILOT CHANNEL
P156	US	7/9/02	10/191,209	GENERATING TRAINING SEQUENCES IN A COMMUNICATIONS SYSTEM
P157EP	EPO	6/27/03	3739347.7	EFFICIENT BROADCAST CHANNEL STRUCTURE AND USE FOR SPATIAL DIVERSITY COMMUNICATIONS
P157JP	JP	6/27/03	2004-518036	EFFICIENT BROADCAST CHANNEL STRUCTURE AND USE FOR SPATIAL DIVERSITY COMMUNICATIONS
P157KR	KR	6/27/03	10-2004-7021420	EFFICIENT BROADCAST CHANNEL STRUCTURE AND USE FOR SPATIAL DIVERSITY COMMUNICATIONS
P160	US	9/30/02	10/262,431	RECEIVING SIGNALS ON A CHANNEL USED FOR TRAFFIC AND ACCESS IN A COMMUNICATIONS SYSTEM
P160EP	EPO	9/30/03	3799832.5	RECEIVING SIGNALS ON A CHANNEL USED FOR TRAFFIC AND ACCESS IN A COMMUNICATIONS SYSTEM
P160JP	JP	9/30/03	2004-550004	RECEIVING SIGNALS ON A CHANNEL USED FOR TRAFFIC AND ACCESS IN A COMMUNICATIONS SYSTEM
P160KR	KR	9/30/03	10-2005-7005538	RECEIVING SIGNALS ON A CHANNEL USED FOR TRAFFIC AND ACCESS IN A COMMUNICATIONS SYSTEM
P163	US	10/7/02	10/266,849	AN OPPORTUNISTIC PAGING SCHEME IN A WIRELESS COMMUNICATION NETWORK
P165C	US	11/2/06	11/592,937	HOPPING HARDWARE RESOURCES DURING PAGING IN A WIRELESS COMMUNICATIONS SYSTEM
P167CAU	AU	9/23/03	2003-270856	MESSAGING FOR TRANSMISSION LINK ADAPTATION
P167CEP	EPO	9/23/03	3752569.8	MESSAGING FOR TRANSMISSION LINK ADAPTATION
P167CJP	JP	9/23/03	2004-541605	MESSAGING FOR TRANSMISSION LINK ADAPTATION
P167CKR	KR	9/23/03	10-2005-7005535	MESSAGING FOR TRANSMISSION LINK ADAPTATION
P168	US	9/30/02	10/262,422	TRANSMISSION LINK ADAPTATION
P168AU	AU	9/23/03	2003-270855	TRANSMISSION LINK ADAPTATION
P168EP	EPO	9/23/03	3752568	TRANSMISSION LINK ADAPTATION
P168JP	JP	9/23/03	2004-541604	TRANSMISSION LINK ADAPTATION
P168KR	KR	9/23/03	10-2005-7005536	TRANSMISSION LINK ADAPTATION
P169	US	9/30/02	10/262,104	FRAME STRUCTURE FOR RADIO COMMUNICATIONS SYSTEM
P169AU	AU	9/24/03	2003-270889	FRAME STRUCTURE FOR RADIO COMMUNICATIONS SYSTEM

Matlar No.	Country	Filing Date	Serial No.	Title
P169EP	EPO	9/24/03	3752603.5	FRAME STRUCTURE FOR RADIO COMMUNICATIONS SYSTEM
P169JP	JP	9/24/03	2004-541727	FRAME STRUCTURE FOR RADIO COMMUNICATIONS SYSTEM
P169KR	KR	9/24/03	10-2005-7005545	FRAME STRUCTURE FOR RADIO COMMUNICATIONS SYSTEM
P170	US	9/30/02	10/262,108	SLOT STRUCTURE FOR RADIO COMMUNICATIONS SYSTEM
P170AU	AU	9/24/03	2003272692	SLOT STRUCTURE FOR RADIO COMMUNICATIONS SYSTEM
P170EP	EPO	9/24/03	3754990.6	SLOT STRUCTURE FOR RADIO COMMUNICATIONS SYSTEM
P170JP	JP	9/24/03	2004-541737	SLOT STRUCTURE FOR RADIO COMMUNICATIONS SYSTEM
P170KR	KR	9/24/03	10-2005-7005546	SLOT STRUCTURE FOR RADIO COMMUNICATIONS SYSTEM
P172	US	9/30/02	10/262,409	ASSIGNING TRAINING SEQUENCES BASED ON SPATIAL CHANNELS IN A WIRELESS COMMUNICATIONS SYSTEM
P172AU	AU	9/24/03	2003278908	ASSIGNING TRAINING SEQUENCES BASED ON SPATIAL CHANNELS IN A WIRELESS COMMUNICATIONS SYSTEM
P172CN	CN	9/24/03	3825449.2	ASSIGNING TRAINING SEQUENCES BASED ON SPATIAL CHANNELS IN A WIRELESS COMMUNICATIONS SYSTEM
P172EP	EPO	9/24/03	3770424.4	ASSIGNING TRAINING SEQUENCES BASED ON SPATIAL CHANNELS IN A WIRELESS COMMUNICATIONS SYSTEM
P172KR	KR	9/24/03	10-2005-7005495	ASSIGNING TRAINING SEQUENCES BASED ON SPATIAL CHANNELS IN A WIRELESS COMMUNICATIONS SYSTEM
P173	US	9/30/02	10/262,088	TRANSMITTING SIGNALS ON A CHANNEL USED FOR TRAFFIC AND ACCESS IN A COMMUNICATIONS SYSTEM
P173AU	AU	9/24/03	2003-278906	TRANSMITTING SIGNALS ON A CHANNEL USED FOR TRAFFIC AND ACCESS IN A COMMUNICATIONS SYSTEM
P173CN	CN	9/24/03	03825445.X	TRANSMITTING SIGNALS ON A CHANNEL USED FOR TRAFFIC AND ACCESS IN A COMMUNICATIONS SYSTEM
P173EP	EPO	9/24/03	3770422.8	TRANSMITTING SIGNALS ON A CHANNEL USED FOR TRAFFIC AND ACCESS IN A COMMUNICATIONS SYSTEM
P173JP	JP	9/24/03	2004-541729	TRANSMITTING SIGNALS ON A CHANNEL USED FOR TRAFFIC AND ACCESS IN A COMMUNICATIONS SYSTEM
P173KR	KR	9/24/03	10-2005-7005520	TRANSMITTING SIGNALS ON A CHANNEL USED FOR TRAFFIC AND ACCESS IN A COMMUNICATIONS SYSTEM
P174DE	DE	1/14/04	11-2004-00181.1	METHODS FOR RELIABLE USER SWITCHBACK ON A PHS SPATIAL DIVISION MULTIPLE ACCESS CHANNEL
P174JP	JP	1/14/04	2006-502834	METHODS FOR RELIABLE USER SWITCHBACK ON A PHS SPATIAL DIVISION MULTIPLE ACCESS CHANNEL
P175JP	JP	12/24/03	2004-565698	DETECTION AND CORRECTION OF CHANNEL SWAP IN SPATIAL DIVISION MULTIPLE ACCESS SYSTEMS
P208	US	6/24/03	10/603,424	TERMINAL AUTHENTICATION IN A WIRELESS NETWORK
P210CN	CN	6/16/06	200480037532.7	Digital Certificate Related To User Terminal Hardware In A Wireless Network
P210EP	EPO	10/18/04	4817255.5	Digital Certificate Related To User Terminal Hardware In A Wireless Network
P214JP	JP	12/26/05	2006-517120	Criteria for Base Station Selection and Handover

ArrayComm Issued Patents

Matter No.	Country	Filing Date	Issue Date	Patent No.	Serial No.	Title
P001	US	12/12/91	5/7/96	5,515,376	07/806,695	Spatial Division Multiple Access Wireless Communication Systems
P001AU	AU	11/24/92	12/3/96	670766	314541/93	Spatial Division Multiple Access Wireless Communication Systems
P001CA	CA	11/24/92	10/31/00	2,125,571	2125571.0	Spatial Division Multiple Access Wireless Communication Systems
P001D	US	6/5/95	6/24/97	5,642,353	08/465,665	Spatial Division Multiple Access Wireless Communication Systems
P001DE	DE	11/24/92	8/25/99	DE0926916	92925375.5	Spatial Division Multiple Access Wireless Communication Systems
P001DED	DE	11/24/92	8/15/07	69,233,707	99200126.3	Spatial Division Multiple Access Wireless Communication Systems
P001ES	ES	11/24/92	8/25/99	616742	92935375.5	Spatial Division Multiple Access Wireless Communication Systems
P001ESD	ES	11/24/92	8/15/07	ESD926916	99200126.3	Spatial Division Multiple Access Wireless Communication Systems
P001FR	FR	11/24/92	8/25/99	FR0926916	92925375.5	Spatial Division Multiple Access Wireless Communication Systems
P001FRD	FR	11/24/92	8/15/07	FRD926916	99200126.3	Spatial Division Multiple Access Wireless Communication Systems
P001GB	GB	11/24/92	8/25/99	GB0926916	92925375.5	Spatial Division Multiple Access Wireless Communication Systems
P001GBD	GB	11/24/92	8/15/07	GBD926916	99200126.3	Spatial Division Multiple Access Wireless Communication Systems
P001IN	IN	12/9/92	12/9/92	181434	745/MAS/92	Spatial Division Multiple Access Wireless Communication Systems
P001IT	IT	11/24/92	8/25/99	IT0926916	92925375.5	Spatial Division Multiple Access Wireless Communication Systems
P001ITD	IT	11/24/92	8/15/07	ITD926916	99200126.3	Spatial Division Multiple Access Wireless Communication Systems
P001JP	JP	11/24/92	1/11/02	3266258	05-507988	Spatial Division Multiple Access Wireless Communication Systems
P001KR	KR	11/24/92	3/23/01	292451	702032/94	Spatial Division Multiple Access Wireless Communication Systems
P001NL	NL	11/24/92	8/25/99	NL0926916	92925375.5	Spatial Division Multiple Access Wireless Communication Systems
P001NLD	NL	11/24/92	8/15/07	NLD926916	99200126.3	Spatial Division Multiple Access Wireless Communication Systems
P001SE	SE	11/24/92	8/25/99	SE0926916	92925375.5	Spatial Division Multiple Access Wireless Communication Systems
P001SED	SE	11/24/92	8/15/07	SED926916	99200126.3	Spatial Division Multiple Access Wireless Communication Systems
P002	US	4/28/94	8/13/96	5,548,090	08/234,747	Method & Apparatus for Calibrating Antenna Arrays
P003	US	8/1/94	4/29/97	5,625,880	08/293,470	Spectrally Efficient and High Capacity Acknowledgment Radio Paging System
P004	US	1/20/95	1/7/97	5,592,490	08/375,848	Spectrally Efficient High Capacity Wireless Communication Systems
P004AU	AU	12/1/95	5/20/99	701764	45862/96	Spectrally Efficient High Capacity Wireless Communication
P004BR	BR	12/1/95	12/24/02	PI 9510197-7	PI 9510197-7	Spectrally Efficient High Capacity Wireless Communication
P004BRD	BR	6/10/02	9/13/05	PI 9510766-5	PI 9510766-5	Spectrally Efficient High Capacity Wireless Communication
P004CA	CA	12/1/95	11/28/06	2210659	2210659.0	Spectrally Efficient High Capacity Wireless Communication
P004CN	CN	7/18/97	5/1/02	ZL95197374.6	95197374.6	Spectrally Efficient High Capacity Wireless Communication
P004CND	CN	3/4/02			2106964.6	Spectrally Efficient High Capacity Wireless Communication

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P004DE	DE	12/1/95	2/13/08	89635708.5	95944051.2	Spectrally Efficient High Capacity Wireless Communication
P004ES	ES	12/1/95	2/13/08	804858	95944051.2	Spectrally Efficient High Capacity Wireless Communication
P004FR	FR	12/1/95	2/13/08	804858	95944051.2	Spectrally Efficient High Capacity Wireless Communication
P004GB	GB	12/1/95	2/13/08	804858	95944051.2	Spectrally Efficient High Capacity Wireless Communication
P004IN	IN	12/5/95	12/7/05	183616	1593/MAS/95	Spectrally Efficient High Capacity Wireless Communication
P004IT	IT	12/1/95	2/13/08	23988BE/2008	95944051.2	Spectrally Efficient High Capacity Wireless Communication
P004MX	MX	12/1/95	10/14/99	183727	975417.0	Spectrally Efficient High Capacity Wireless Communication
P004MY	MY	1/5/96	6/29/07	MY-130323-A	PI 9600042	Spectrally Efficient High Capacity Wireless Communication
P004NL	NL	12/1/95	2/13/08	804858	95944051.2	Spectrally Efficient High Capacity Wireless Communication
P004SE	SE	12/1/95	2/13/08	804858	95944051.2	Spectrally Efficient High Capacity Wireless Communication
P004TW	TW	1/25/96	3/18/97	82249	85100906.0	Spectrally Efficient High Capacity Wireless Communication
P011	US	10/11/96	6/1/99	5,909,470	08/729,390	Method and Apparatus for Decision Directed Demodulation Using ANTENNA ARRAYS AND SPATIAL PROCESSING
P011CN	CN	4/12/99	12/13/06	ZL97198739.4	97198739.4	Method and Apparatus for Decision Directed Demodulation Using ANTENNA ARRAYS AND SPATIAL PROCESSING
P011DE	DE	10/10/97	9/14/05	GB951770	97911768.6	Method and Apparatus for Decision Directed Demodulation Using ANTENNA ARRAYS AND SPATIAL PROCESSING
P011FR	FR	10/10/97	9/14/05	FR951770	97911768.6	Method and Apparatus for Decision Directed Demodulation Using ANTENNA ARRAYS AND SPATIAL PROCESSING
P011GB	GB	10/10/97	9/14/05	GB951770	97911768.6	Method and Apparatus for Decision Directed Demodulation Using ANTENNA ARRAYS AND SPATIAL PROCESSING
P012	US	10/11/96	7/27/99	5,930,243	08/729,386	Method and Apparatus for Estimating Parameters of A Communication System Using Antenna Arrays and Spatial Processing
P012CN	CN	10/10/97	5/11/05	ZL97198740.8	97198740.8	Method and Apparatus for Estimating Parameters of a Communication System using Antenna Arrays and Spatial Processing
P013	US	10/11/96	4/4/00	6,047,188	08/729,387	Adaptive Method for Channel Assignment in a Cellular Communication System
P013CA	CA	10/10/97	12/7/04	2,268,269	2268269.0	Adaptive Method for Channel Assignment in a Cellular Communication System
P013CN	CN	4/12/99	8/20/03	CN 1118969C	97198741.6	Adaptive Method for Channel Assignment in a Cellular Communication System
P013DE	DE	10/10/97	8/3/05	DE1013013	97910120.1	Adaptive Method for Channel Assignment in a Cellular Communication System
P013FR	FR	10/10/97	8/3/05	FR1013013	97910120.1	Adaptive Method for Channel Assignment in a Cellular Communication System

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P013GB	GB	10/10/97	8/3/05	GB1013013	97910120.1	Adaptive Method for Channel Assignment in a Cellular Communication System
P013JP	JP	10/10/97	7/11/08	4151990	10-518567	Adaptive Method for Channel Assignment in a Cellular Communication System
P014BR	BR	10/17/97	10/26/04	PI 9712643-8	PI 9712643-8	Spectrally Efficient High Capacity Wireless Communication Systems with Spatio-Temporal Processing
P014CN	CN	10/17/97	3/26/03	ZL 97199074.3	97199074.3	Spectrally Efficient High Capacity Wireless Communication Systems with Spatio-Temporal Processing
P014X	US	10/23/96	10/27/98	5,828,659	08/735,520	Spectrally Efficient High Capacity Wireless Communication Systems with Spatio-Temporal Processing
P015CN	CN	12/30/97	4/9/08	ZL97181158.X	97181158.X	Channel Assignment and Call Admission Control for Spatial Division Multiple Access Communication Systems
P015X	US	12/31/96	3/23/99	5,696,986	08/777,598	Channel Assignment and Call Admission Control for Spatial Division Multiple Access Communication Systems
P016	US	8/8/97	6/1/99	5,909,471	08/907,594	Method & System for Rapid Initial CONTROL Signal Detection in a Wireless Communication SYSTEM
P017	US	10/10/97	3/14/00	6,037,888	08/948,772	Method and Apparatus for Calibrating Radio Frequency Base Stations Using Antenna Arrays
P017CN	CN	11/24/98	2/18/04	ZL98814387.9	98814387.9	Method and Apparatus for Calibrating Radio Frequency Basestations Using Antenna Arrays
P018	US	12/10/97	11/28/00	6,154,661	08/988,519	TRANSMITTING ON THE DOWNLINK USING ONE OR MORE WEIGHT VECTORS DETERMINED TO ACHIEVE A DESIRED RADIATION PATTERN
P018CA	CA	5/15/00	11/14/06	2310048	2310048.0	Radio Transmission from a Communication Station with an Antenna Array to Provide a Desirable Radiation Pattern
P018CN	CN	11/24/98	11/12/03	ZL 98 8 11943.9	98811943.9	Radio Transmission from a Communication Station with an Antenna Array to Provide a Desirable Radiation Pattern
P018DE	DE	11/24/98	6/29/05	DE1025731	98861827.7	Radio Transmission from a Communication Station with an Antenna Array to Provide a Desirable Radiation Pattern
P018FR	FR	11/24/98	6/29/05	FR1025731	98861827.7	Radio Transmission from a Communication Station with an Antenna Array to Provide a Desirable Radiation Pattern
P018GB	GB	11/24/98	6/29/05	GB1025731	98861827.7	Radio Transmission from a Communication Station with an Antenna Array to Provide a Desirable Radiation Pattern
P018JP	JP	6/12/00	7/4/08	4149867	2000-524947	Radio Transmission from a Communication Station with an Antenna Array to Provide a Desirable Radiation Pattern
P019	US	2/9/96	2/6/01	6,185,440	09/020,619	Method for sequentially transmitting a downlink signal from a communication station that has an antenna array to achieve an omnidirectional radiation

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P019C	US	10/11/00	11/20/07	7,299,871	09/689,228	Downlink Broadcasting by Sequential Transmissions from a Communication Station Having an Antenna Array to Achieve an Omnidirectional Radiation Pattern
P019CN	CN	2/3/99	4/9/08	ZL99802611.5	99802611.5	Downlink Broadcasting by Sequential Transmissions from a Communication Station Having an Antenna Array
P020CN	CN	2/3/99	4/11/07	ZL 99802612.3	99802612.3	Power Control with Signal Quality Estimation for Smart Antenna Communications Systems
P020DE	DE	2/3/99	4/21/04	DE1051811	99904566.9	Power Control with Signal Quality Estimation for Smart Antenna Communications Systems
P020FR	FR	2/3/99	4/21/04	FR1051811	99904566.9	Power Control with Signal Quality Estimation for Smart Antenna Communications Systems
P020GB	GB	2/3/99	4/21/04	GB1051811	99904566.9	Power Control with Signal Quality Estimation for Smart Antenna Communications Systems
P020X	US	2/6/98	10/6/02	6,463,295	09/020,049	Power Control with Signal Quality Estimation for Smart Antenna Communications Systems
P020XC	US	8/28/02	4/25/06	7,035,661	10/231,782	Power Control with Signal Quality Estimation for Smart Antenna Communications Systems
P021	US	9/15/98	8/14/01	6,275,543	09/153,110	Method for Reference Signal Generation in the Presence of Frequency Offsets in a Communications Station with Spatial Processing
P021C	US	6/5/01	2/10/04	6,690,747	09/877,807	METHOD FOR REFERENCE SIGNAL GENERATION IN THE PRESENCE OF FREQUENCY OFFSETS IN A COMMUNICATIONS STATION WITH SPATIAL PROCESSING
P021CN	CN	8/17/99	2/18/04	ZL99613283.7	99813283.7	Method for Reference Signal Generation in the Presence of Frequency Offsets in a Communications Station with Spatial Processing
P023	US	4/20/99	9/2/03	6,615,024	09/295,434	METHOD AND APPARATUS FOR DETERMINING SIGNATURES FOR CALIBRATING A COMMUNICATION STATION HAVING AN ANTENNA ARRAY
P023C	US	4/29/02	11/25/03	6,654,590	10/136,049	Determining a Calibrating function using at least one remote terminal
P023CN	CN	4/22/99	4/27/05	ZL99808199.X	99808199.X	Method and Apparatus for Determining Spatial Signatures with Application to Calibrating a Base Station Having an Antenna Array
P023D	US	4/29/02	12/23/03	6,668,161	10/135,979	Determining a Spatial Signature Using a Robust Calibration Signal (as amended)
P023D2	US	4/29/02	11/8/05	6,963,742	10/136,048	Periodic Calibration on a Communications Channel (as amended)
P024	US	6/21/99	11/21/06	7,139,592	09/336,933	NULL DEEPENING FOR AN ADAPTIVE ANTENNA BASED COMMUNICATION STATION

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P026	US	9/29/00	5/9/06	7,043,259	09/676,885	REPETITIVE PAGING FROM A WIRELESS DATA BASE STATION HAVING A SMART ANTENNA SYSTEM
P026GB	GB	12/15/03	6/18/08	2426158	613881.2	REPETITIVE PAGING FROM A WIRELESS DATA BASE STATION HAVING A SMART ANTENNA SYSTEM
P027	US	9/29/00	1/3/06	6,982,968	09/676,886	NON-DIRECTIONAL TRANSMITTING FROM A WIRELESS DATA BASE STATION HAVING A SMART ANTENNA SYSTEM
P027GB	GB	12/12/03	1/9/08	2426416	613763.2	NON-DIRECTIONAL TRANSMITTING FROM A WIRELESS DATA BASE STATION HAVING A SMART ANTENNA SYSTEM
P029	US	4/1/99	1/23/01	6,177,906	09/286,135	Multimode Iterative Adaptive Smart Antenna Processing Method and Apparatus
P029AU	AU	4/26/00	9/22/05	2000246792	2000246792.0	MULTIMODE ITERATIVE ADAPTIVE SMART ANTENNA PROCESSING METHOD AND APPARATUS
P029CN	CN	4/26/00	2/27/06	ZL00819675.3	819675.3	MULTIMODE ITERATIVE ADAPTIVE SMART ANTENNA PROCESSING METHOD AND APPARATUS
P029KR	KR	10/25/02	9/27/07	761420	2002-7014337	Multimode Iterative Adaptive Smart Antenna Processing Method and Apparatus
P030	US	6/7/99	10/31/00	6,141,567	09/327,776	Apparatus and Method for Beamforming in a Changing-Interference Environment
P030AU	AU	4/20/00	5/6/04	769320	46572/00	Apparatus and Method for Beamforming in a Changing-Interference Environment
P030C	US	10/31/00	1/4/05	6,839,573	09/704,393	Apparatus and Method for Beamforming in a Changing-Interference Environment
P031	US	9/29/00	6/13/06	7,062,294	09/676,887	DOWNLINK TRANSMISSION IN A WIRELESS DATA COMMUNICATION SYSTEM HAVING A BASE STATION WITH A SMART ANTENNA SYSTEM
P031AU	AU	9/26/01	3/6/07		2001293126.0	DOWNLINK TRANSMISSION IN A WIRELESS DATA COMMUNICATION SYSTEM HAVING A BASE STATION WITH A SMART ANTENNA SYSTEM
P031CN	CN	9/26/01	11/29/06	ZL1819790.6	1819790.6	DOWNLINK TRANSMISSION IN A WIRELESS DATA COMMUNICATION SYSTEM HAVING A BASE STATION WITH A SMART ANTENNA SYSTEM
P032	US	11/6/99	1/10/06	6,985,466	09/437,764	Downlink Signal Processing in CDMA Systems Utilizing Arrays of Antennas
P032CN	CN	11/9/00	3/29/06	ZL00818294.9	818294.9	Downlink Signal Processing Method and Apparatus in CDMA System Utilizing Arrays of Antenna (title change proposed from FA on 8/15/05 from Downlink Signal Processing in CDMA Systems Utilizing Arrays of Antennas)

Matter No.	Country	Filing Date	Issue Date	Patent No.	Serial No.	Title
P033	US	9/29/00	5/13/03	6,554,036	09/676,886	MODE SWITCHING IN ADAPTIVE ARRAY COMMUNICATIONS SYSTEMS
P033AU	AU	9/26/01	12/6/07	2001293126	2001293128	Mode Switching in Adaptive Array Communications Systems
P033DE	DE	9/26/01	6/29/05	DE1334633	1973564.6	Mode Switching in Adaptive Array Communications Systems
P033FR	FR	9/26/01	6/29/05	FR1334633	1973564.6	Mode Switching in Adaptive Array Communications Systems
P033GB	GB	9/26/01	6/29/05	GB1334633	1973564.6	Mode Switching in Adaptive Array Communications Systems
P033KR	KR	9/26/01	7/4/07	737964	10-2003-7004468	Mode Switching in Adaptive Array Communications Systems
P034	US	9/29/00	9/21/04	6,795,409	09/677,460	COOPERATIVE POLLING IN A WIRELESS DATA COMMUNICATION SYSTEM HAVING SMART ANTENNA PROCESSING
P034AU	AU	9/26/01	11/22/07	2002211272	2002211272.0	Cooperative Polling in a Wireless Data Communication System Having Smart Antenna Processing
P034DE	DE	9/26/01	6/29/05	DE1325641	1979294.4	Cooperative Polling in a Wireless Data Communication System Having Smart Antenna Processing
P034FR	FR	9/26/01	6/29/05	FR1325641	1979294.4	Cooperative Polling in a Wireless Data Communication System Having Smart Antenna Processing
P034GB	GB	9/26/01	6/29/05	GB1325641	1979294.4	Cooperative Polling in a Wireless Data Communication System Having Smart Antenna Processing
P035	US	6/30/00	8/27/02	6,441,784	09/606,835	METHOD AND APPARATUS FOR UPLINK AND DOWNLINK WEIGHT PREDICTION IN ADAPTIVE ARRAY SYSTEMS
P036C	US	7/30/01	8/17/04	6,778,513	09/918,910	METHOD AND APPARATUS FOR SEPARATING MULTIPLE USERS IN A SHARED-CHANNEL COMMUNICATION SYSTEM
P036CCN	CN	9/26/01	8/30/06	ZL01819424.9	1819424.9	Method and Apparatus for Separating Multiple Users in a Shared-Channel Communication System
P036CKR	KR	9/26/01	7/4/07	737965	2003-7004470	Method and Apparatus for Separating Multiple Users in a Shared-Channel Communication System
P038	US	12/22/00	12/28/04	6,836,673	09/746,678	MITIGATING GHOST SIGNAL INTERFERENCE IN ADAPTIVE ARRAY SYSTEMS
P042	US	7/31/01	6/5/07	7,227,855	09/919,683	RESOURCE Allocation IN A WIRELESS NETWORK
P042C	US	2/7/07	9/9/08	7,424,002	11/704,027	RESOURCE Allocation IN A WIRELESS NETWORK
P044	US	11/30/00	11/18/03	6,650,881	09/727,261	CALCULATING SPATIAL WEIGHTS IN A RADIO COMMUNICATIONS SYSTEM
P045C	US	2/19/02	5/4/04	6,731,669	10/079,620	Training Sequence For A Radio Communications System
P045KR	KR	10/4/2001	11/28/07	782092	10-2003-7007338	Training Sequence For A Radio Communications System
P046	US	11/30/00	7/27/04	6,768,747	09/726,799	Relative and Absolute Timing Acquisition for a Radio Communications System
P047	US	11/30/00	10/5/04	6,801,589	09/727,177	Relative Timing Acquisition for a Radio Communications System

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P048	US	11/30/00	5/3/05	6,888,882	09/726,375	Reducing Collisions in a Radio Communications System
P049	US	11/30/00	8/16/05	6,931,030	09/727,262	Training Sequence with a Random Delay For a Radio Communications system
P050	US	9/28/01	3/21/06	7,016,429	09/967,056	TRAINING SEQUENCES FOR PEAK TO AVERAGE POWER CONSTRAINING MODULATION FORMATS
P052	US	9/29/00	9/30/06	7,430,197	09/675,274	Radio Communications System With a Shared Broadcast Channel
P055	US	9/29/00	9/21/04	6,795,413	09/677,027	Radio Communications System in Which Traffic is Transmitted on the Broadcast Channel
P056	US	9/29/00	7/6/04	6,760,599	09/676,140	Method and Apparatus for Selecting a Base Station
P058	US	9/29/00	5/11/04	6,735,258	09/675,910	Moderate Rate Phase Shift Keying Codes
P059	US	9/29/00	1/27/04	6,684,366	09/676,139	Multi-Rate Codec With Puncture Control
P060	US	12/21/00	1/27/04	6,683,915	09/748,086	MULTI-BIT PER SYMBOL RATE QUADRATURE AMPLITUDE ENCODING
P060AU	AU	10/4/01	12/13/07	2002213448	2002213448	MULTI-BIT PER SYMBOL RATE QUADRATURE AMPLITUDE ENCODING
P060GB	GB	10/4/01	12/13/06	UK1344341	1981831.9	MULTI-BIT PER SYMBOL RATE QUADRATURE AMPLITUDE ENCODING
P060JP	JP	10/4/01	9/14/07	4012484	2002-553351	MULTI-BIT PER SYMBOL RATE QUADRATURE AMPLITUDE ENCODING
P061	US	12/21/00	11/18/03	6,651,210	09/747,829	FLEXIBLE MULTI-BIT PER SYMBOL RATE ENCODING
P062	US	12/22/00	5/4/04	6,731,705	09/745,768	METHOD AND APPARATUS FOR MITIGATING INTER-CHANNEL INTERFERENCE IN ADAPTIVE ARRAY SYSTEMS
P065	US	12/20/00	1/4/05	6,839,574	09/745,343	METHOD AND APPARATUS FOR ESTIMATING DOWNLINK BEAMFORMING WEIGHTS IN A COMMUNICATIONS SYSTEM
P065AU	AU	10/3/01	12/13/07	2001296598	2001296598	Method and Apparatus for Estimating Downlink Beamforming Weights in a Communications System
P065CN	CN	10/3/01	2/15/06	ZL01820913.0	1820913.0	Method and Apparatus for Estimating Downlink Beamforming Weights in a Communications System
P065KR	KR	6/19/03	4/3/08	O821242	2003-7008286	Method and Apparatus for Estimating Downlink Beamforming Weights in a Communications System
P068CN	CN	9/20/01	6/20/07	ZL99802612.3	1819081.2	Method and Apparatus for Determining An Operating Condition in a Communications System
P068DE	DE	9/20/01	11/15/06	DE1319276	DE1971259.5	Method and Apparatus for Determining An Operating Condition in a Communications System
P068FR	FR	9/20/01	11/15/06	FR1319276	FR1971259.5	Method and Apparatus for Determining An Operating Condition in a Communications System
P068GB	GB	9/20/01	11/15/06	GB1319276	1971259.5	Method and Apparatus for Determining An Operating Condition in a Communications System
P069	US	9/29/00	1/2/07	7,158,493	09/675,748	Radio Communications System with reduced data rate on the Broadcast Channel

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P069DE	DE	3/27/03	1/17/07	DE1325655	1973581.0	Radio Communications System with reduced data rate on the Broadcast Channel
P069FR	FR	3/27/03	1/17/07	FR1325655	1973581.0	Radio Communications System with reduced data rate on the Broadcast Channel
P069GB	GB	3/27/03	1/17/07	GB1325655	1973581.0	Radio Communications System with reduced data rate on the Broadcast Channel
P072	US	2/23/01	4/25/06	7,035,358	09/792,002	METHOD AND APPARATUS FOR RECEIVING A WIDEBAND SIGNAL IN THE PRESENCE OF MULTIPATH CHANNEL IMPERFECTIONS AND FREQUENCY OFFSET
P073	US	12/30/00	10/5/04	6,802,038	09/751,863	IMPROVED CYCLIC REDUNDANCY CHECK COMPUTATION ALGORITHM
P075	US	3/28/01	6/10/06	7,386,781	09/817,731	A METHOD AND APPARATUS FOR INCREASING THE EFFECTIVE RANGE OF A COMMUNICATION LINK IN A WIRELESS COMMUNICATION SYSTEM
P078C	US	11/14/01	3/4/08	7,339,908	10/003,165	A SYSTEM AND RELATED METHODS TO FACILITATE THE DELIVERY OF ENHANCED DATA SERVICES IN A MOBILE WIRELESS COMMUNICATIONS ENVIRONMENT
P083	US	5/28/01	2/14/06	6,999,771	09/968,356	Channel Assignments in a Wireless Communication System having Spatial Channels including Grouping Existing Subscribers in Anticipation of a New Subscriber
P083JP	JP	9/26/02	3/21/06	4099145	2003-533633	Channel Assignments in a Wireless Communication System having Spatial Channels including Grouping Existing Subscribers in Anticipation of a New Subscriber
P085	US	7/31/02	1/3/06	6,983,127	10/209,500	STATISTICAL CALIBRATION OF WIRELESS BASE STATIONS
P090	US	4/24/01	11/18/03	6,650,714	09/841,456	SPATIAL PROCESSING AND TIMING ESTIMATION USING A TRAINING SEQUENCE IN A RADIO COMMUNICATIONS SYSTEM
P090CN	CN	3/27/02	3/12/08	ZL02808706.2	2808706.2	SPATIAL PROCESSING AND TIMING ESTIMATION USING A TRAINING SEQUENCE IN A RADIO COMMUNICATIONS SYSTEM
P090JP	JP	3/27/02	6/13/08	4136482	2002-594500	SPATIAL PROCESSING AND TIMING ESTIMATION USING A TRAINING SEQUENCE IN A RADIO COMMUNICATIONS SYSTEM
P091	US	3/20/01	3/4/08	7,339,908	09/812,770	OPENING A COMMUNICATIONS STREAM BETWEEN A USER TERMINAL AND A BASE STATION
P092	US	3/20/01	2/7/06	6,986,060	09/813,194	CLOSING A COMMUNICATIONS STREAM BETWEEN TERMINALS OF A COMMUNICATIONS SYSTEM
P093	US	3/20/01	7/29/08	7,406,315	09/813,386	METHOD AND APPARATUS FOR RESOURCE MANAGEMENT IN A WIRELESS DATA COMMUNICATION SYSTEM

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P093AU	AU	3/20/02	1/31/08	2002252476	2002252476	METHOD AND APPARATUS FOR RESOURCE MANAGEMENT IN A WIRELESS DATA COMMUNICATION SYSTEM
P093JP	JP	3/20/02	9/14/07	4,012,072	2002-573455	Method and Apparatus for Resource Management in a Wireless Data Communication System
P095	US	3/20/01	4/11/06	7,027,415	09/813,200	DYNAMIC ALLOCATION AND DE-ALLOCATION OF MULTIPLE COMMUNICATION CHANNELS FOR BANDWIDTH ON-DEMAND
P096	US	7/31/01	4/22/06	7,363,376	09/919,777	A METHOD AND APPARATUS FOR GENERATING AN IDENTIFIER TO FACILITATE DELIVERY OF ENHANCED DATA SERVICES IN A MOBILE COMPUTING ENVIRONMENT
P099	US	9/28/01	5/2/06	7,039,363	09/867,896	ADAPTIVE ANTENNA ARRAY WITH PROGRAMMABLE SENSITIVITY
P100	US	9/28/01	11/15/05	6,965,786	09/967,863	A METHOD AND APPARATUS FOR PROVIDING SPATIAL PROCESSING IN A REMOTE UNIT
P100CN	CN	9/27/02	11/21/07	ZL2823647.5	2823647.5	A METHOD AND APPARATUS FOR PROVIDING SPATIAL PROCESSING IN A REMOTE UNIT
P100DE	DE	9/27/02	11/14/07	1,433,270	60223581.2	A METHOD AND APPARATUS FOR PROVIDING SPATIAL PROCESSING IN A REMOTE UNIT
P100FR	FR	9/27/02	11/14/07	1,433,270	FR2761835.4	A METHOD AND APPARATUS FOR PROVIDING SPATIAL PROCESSING IN A REMOTE UNIT
P100GB	GB	9/27/02	11/14/07	1,433,270	GB2761835.4	A METHOD AND APPARATUS FOR PROVIDING SPATIAL PROCESSING IN A REMOTE UNIT
P101	US	9/28/01	5/2/06	7,039,018	09/967,127	CALIBRATION OF WIDEBAND RADIOS AND ANTENNAS USING A NARROWBAND CHANNEL
P105	US	9/28/01	4/4/06	7,024,163	09/967,858	A METHOD AND APPARATUS FOR ADJUSTING FEEDBACK OF A REMOTE UNIT
P106	US	9/28/01	9/7/04	6,788,948	09/967,767	FREQUENCY DEPENDENT CALIBRATION OF A WIDEBAND RADIO SYSTEM USING NARROWBAND CHANNELS
P107	US	11/28/01	5/23/06	7,050,832	09/996,633	VARIABLE DIVERSITY TRANSMISSION IN A RADIO COMMUNICATIONS SYSTEM BASED ON CHARACTERISTICS OF A RECEIVED SIGNAL
P107DE	DE	11/25/02	10/18/06	DE1449314	2794010.5	VARIABLE DIVERSITY TRANSMISSION IN A RADIO COMMUNICATIONS SYSTEM BASED ON CHARACTERISTICS OF A RECEIVED SIGNAL
P107GB	GB	11/25/02	10/18/06	UK1449314	2794010.5	VARIABLE DIVERSITY TRANSMISSION IN A RADIO COMMUNICATIONS SYSTEM BASED ON CHARACTERISTICS OF A RECEIVED SIGNAL
P110	US	12/28/01	4/17/07	7,206,293	10/034,140	A SYSTEM AND RELATED METHODS FOR BEAMFORMING IN A MULTI-POINT COMMUNICATIONS ENVIRONMENT

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P113	US	12/31/01	12/19/06	7,151,795	10/036,779	METHOD AND APPARATUS FOR INCREASING SPECTRAL EFFICIENCY USING MITIGATED TRANSMIT POWER NEAR BAND-EDGE
P113C	US	11/8/06	6/10/08	7,386,043	11/588,123	METHOD AND APPARATUS FOR INCREASING SPECTRAL EFFICIENCY USING MITIGATED TRANSMIT POWER NEAR BAND-EDGE
P114	US	9/27/01	4/11/06	7,027,837	09/966,372	ANTENNA ARRAY FOR POINT-TO-POINT MICROWAVE RADIO SYSTEM
P115	US	10/7/02	10/2/07	7,277,679	10/265,886	METHOD AND APPARATUS TO PROVIDE MULTIPLE-MODE SPATIAL PROCESSING TO A TERMINAL UNIT
P117	US	9/28/01	2/26/08	7,336,626	09/967,637	OPERATING TIME DIVISION DUPLEX (tdd) WIRELESS SYSTEMS IN PAIRED SPECTRUM (fdd) ALLOCATIONS
P118	US	9/28/01	11/15/05	6,965,774	09/967,882	CHANNEL ASSIGNMENTS IN A WIRELESS COMMUNICATION SYSTEM HAVING SPATIAL CHANNELS INCLUDING ENHANCEMENTS IN ANTICIPATION OF NEW SUBSCRIBER REQUESTS
P119	US	9/28/01	2/21/06	7,003,310	09/967,857	COUPLED UPLINK/DOWNLINK POWER CONTROL AND SPATIAL PROCESSING WITH ADAPTIVE ANTENNA ARRAYS
P120	US	9/28/01	12/6/05	6,973,314	09/967,056	A SYSTEM AND RELATED METHODS FOR CLUSTERING MULTI-POINT COMMUNICATION TARGETS
P120C	US	10/19/05	11/20/07	7,299,073	11/254,599	A SYSTEM AND RELATED METHODS FOR CLUSTERING MULTI-POINT COMMUNICATION TARGETS
P121	US	9/28/01	5/27/03	6,570,527	09/967,258	CALIBRATION OF DIFFERENTIAL FREQUENCY-DEPENDENT CHARACTERISTICS OF A RADIO COMMUNICATIONS SYSTEM
P121C	US	11/14/02	6/8/04	6,747,594	10/294,948	CALIBRATION OF DIFFERENTIAL FREQUENCY-DEPENDENT CHARACTERISTICS OF A RADIO COMMUNICATIONS SYSTEM
P121CN	CN	9/27/02			2823276.3	CALIBRATION OF DIFFERENTIAL FREQUENCY-DEPENDENT CHARACTERISTICS OF A RADIO COMMUNICATIONS SYSTEM
P121DE	DE	9/27/02	12/19/07	60224213.4	2799671.9	CALIBRATION OF DIFFERENTIAL FREQUENCY-DEPENDENT CHARACTERISTICS OF A RADIO COMMUNICATIONS SYSTEM
P121FR	FR	9/27/02	12/19/07	1433271	2799671.9	CALIBRATION OF DIFFERENTIAL FREQUENCY-DEPENDENT CHARACTERISTICS OF A RADIO COMMUNICATIONS SYSTEM
P121GB	GB	9/27/02	12/19/07	1433271	2799671.9	CALIBRATION OF DIFFERENTIAL FREQUENCY-DEPENDENT CHARACTERISTICS OF A RADIO COMMUNICATIONS SYSTEM
P128	US	12/31/01	5/30/06	7,054,301	10/037,362	COORDINATED HOPPING IN WIRELESS NETWORKS USING ADAPTIVE ANTENNA ARRAYS

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P134	US	6/28/02	5/13/08	7,372,911	10/187,231	BEAM FORMING AND TRANSMIT DIVERSITY IN A MULTIPLE ARRAY RADIO COMMUNICATIONS SYSTEM
P135	US	5/21/02	5/16/04	6,738,020	10/153,515	ESTIMATION OF DOWNLINK TRANSMISSION PARAMETERS IN A RADIO COMMUNICATIONS SYSTEM WITH AN ADAPTIVE ANTENNA ARRAY
P136	US	6/28/02	3/8/05	6,865,377	10/187,036	COMBINED CLOSED AND OPEN LOOP BEAMFORMING IN A MULTIPLE ARRAY RADIO COMMUNICATIONS SYSTEM
P137	US	3/27/02	4/16/06	7,031,679	10/107,035	ESTIMATING POWER SPECTRA CHANNELS
P139	US	6/28/02	1/16/07	7,164,726	10/187,230	BROADCAST BURST USING SPATIAL DIVERSITY FOR A RADIO COMMUNICATIONS SYSTEM
P139C	US	10/12/06	9/30/08	7,430,246	11/561,182	BROADCAST BURST USING SPATIAL DIVERSITY FOR A RADIO COMMUNICATIONS SYSTEM
P140	US	6/28/02	1/16/07	7,164,739	10/186,474	BROADCAST BURST WITH REPEATED WEIGHTS FOR A RADIO COMMUNICATIONS SYSTEM
P143	US	6/6/02	4/29/06	7,366,223	10/164,977	MODIFYING HOPPING SEQUENCES IN WIRELESS NETWORKS
P144	US	6/28/02	3/11/08	7,342,912	10/187,026	SELECTION OF USER-SPECIFIC TRANSMISSION PARAMETERS FOR OPTIMIZATION OF TRANSMIT PERFORMANCE IN WIRELESS COMMUNICATIONS USING A COMMON PILOT CHANNEL
P146	US	7/3/02	9/11/07	7,269,389	10/189,709	SELECTIVE POWER CONTROL MESSAGING
P146X	US	9/30/02	6/14/07	7,257,101	10/262,316	SELECTIVE POWER CONTROL MESSAGING
P148X	US	8/14/02	3/25/08	7,348,371	10/218,770	SELECTING RANDOM ACCESS CHANNELS
P150	US	6/26/02	8/28/07	7,263,082	10/186,553	RESOLVING USER-SPECIFIC NARROW BEAM SIGNALS USING A KNOWN SEQUENCE IN A WIRELESS COMMUNICATIONS SYSTEM WITH A COMMON PILOT CHANNEL
P151	US	6/28/02	4/17/07	7,206,554	10/186,966	TRANSMIT DIVERSITY WITH FORMED BEAMS IN A WIRELESS COMMUNICATIONS SYSTEM USING A COMMON PILOT CHANNEL
P152	US	6/27/02	4/22/06	7,362,799	10/185,897	Method and Apparatus for Communication Signal Resolution
P153	US	7/9/02	3/4/08	7,339,981	10/191,642	SHIFTED TRAINING SEQUENCES IN A COMMUNICATIONS SYSTEM
P154	US	6/28/02	2/14/06	6,998,794	10/187,064	TRANSMISSION OF A COMMON PILOT CHANNEL FROM A BEAMFORMING TRANSMIT ANTENNA ARRAY
P155	US	6/28/02	5/22/07	7,221,699	10/186,475	EXTERNAL CORRECTION OF ERRORS BETWEEN TRAFFIC AND TRAINING IN A WIRELESS COMMUNICATIONS SYSTEM

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P157	US	6/28/02	8/9/05	6,928,287	10/187,023	EFFICIENT BROADCAST CHANNEL STRUCTURE AND USE FOR SPATIAL DIVERSITY COMMUNICATIONS
P154	US	10/21/02	8/12/08	7,411,877	10/278,155	EFFICIENT USAGE OF HARDWARE PROCESSING RESOURCES
P166	US	9/30/02	4/1/08	7,352,774	10/262,427	MULTIPLEXING DIFFERENT TYPES OF DATA SEQUENCES
P174	US	1/21/03	3/28/06	7,020,107	10/348,823	METHODS FOR RELIABLE USER SWITCHBACK ON A PHS SPATIAL DIVISION MULTIPLE ACCESS CHANNEL
P175	US	12/27/02	5/17/05	6,894,903	10/330,639	DETECTION AND CORRECTION OF CHANNEL SWAP IN SPATIAL DIVISION MULTIPLE ACCESS SYSTEMS
P176	US	3/13/03	8/16/05	6,831,262	10/387,665	SOFT DECISION-BASED DECORRELATOR FOR ESTIMATING SPATIAL SIGNATURES IN A WIRELESS COMMUNICATIONS SYSTEM
P177	US	3/13/03	9/27/05	6,950,630	10/387,933	HARD DECISION-BASED DECORRELATOR FOR ESTIMATING SPATIAL SIGNATURES IN A WIRELESS COMMUNICATIONS SYSTEM
P180	US	3/28/03	4/25/06	7,036,067	10/402,717	ERROR DETECTION FOR MULTI-STREAM COMMUNICATIONS
P181	US	3/28/03	9/19/06	7,111,223	10/402,775	ERROR WORD GENERATION WITH MULTIPLE ELEMENT INPUT
P182	US	3/27/03	2/7/06	6,996,163	10/402,039	WALSH-HADAMARD DECODER
P185	US	3/20/03	9/27/05	6,950,979	10/393,706	LOW COMPLEXITY ENCODER AND DECODER
P187	US	3/21/03	8/16/05	6,931,583	10/394,793	DECODING EXTENDED ERROR CORRECTING CODES USING SOFT INFORMATION
P189	US	3/13/03	5/16/06	7,047,045	10/387,718	Symbol Estimation-Based Decorrelator for Estimating Spatial Signatures in a Wireless Communications System
P189D	US	10/12/05	12/18/07	7,310,538	11/249,903	Symbol Estimation-Based Decorrelator for Directing Beams and Nulls to Remove Users in a Wireless Communications System
P190	US	4/4/03	7/5/05	6,915,438	10/406,852	DISTRIBUTED POWER MANAGEMENT METHOD FOR MONITORING CONTROL/STATUS SIGNAL OF SUB-MODULES TO MANAGE POWER OF SUB-MODULES BY ACTIVATING CLOCK SIGNAL DURING OPERATION OF SUB-MODULES
P206	US	6/24/03	9/4/07	7,265,685	10/603,422	DISTRIBUTED POWER MANAGEMENT METHOD FOR MONITORING CONTROL/STATUS SIGNAL OF SUB-MODULES TO MANAGE POWER OF SUB-MODULES BY ACTIVATING CLOCK SIGNAL DURING OPERATION OF SUB-MODULES
P207	US	6/24/03	11/27/07	7,302,565	10/603,562	TERMINAL IDENTITY MASKING IN A WIRELESS NETWORK
P21002	US	10/17/03	9/30/08	7,430,806	10/689,501	Reducing Certificate Revocation Lists At Access Points In A Wireless Access Network

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P213	US	6/25/03	6/17/06	7,389,111	10/606,515	Adaptive Determination of Hysteresis for Facilitating Handover in a Communication System
P214	US	6/27/03	10/11/05	6,954,643	10/606,426	Criteria for Base Station Selection and Handover
P216	US	5/6/04	9/2/08	7,420,984	10/841,690	Method and Apparatus For Multi-Phase Wireless Handshaking