

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT2835197

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
Name		Execution Date
OPTIS CELLULAR TECHNOLOGY, LLC		04/24/2014
RECEIVING PARTY DATA		
Name:	HIGHBRIDGE PRINCIPAL STRATEGIES, LLC, AS COLLATERAL AGENT	
Street Address:	40 WEST 57TH STREET - 33RD FLOOR	
Internal Address:	ATTENTION: VIKAS KESWANI	
City:	NEW YORK	
State/Country:	NEW YORK	
Postal Code:	10019	
PROPERTY NUMBERS Total: 398		
Property Type	Number	
Application Number:	08623507	
Application Number:	08994956	
Application Number:	08921321	
Application Number:	09251018	
Application Number:	09471603	
Application Number:	09196127	
Application Number:	10780783	
Application Number:	09140470	
Application Number:	09340254	
Application Number:	09713505	
Application Number:	09572846	
Application Number:	09703037	
Application Number:	09746823	
Application Number:	11551937	
Application Number:	09894297	
Application Number:	09859237	
Application Number:	10259435	
Application Number:	13874809	
Application Number:	12664962	
Application Number:	12866534	

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Property Type	Number
Application Number:	08668815
Application Number:	08697742
Application Number:	08708034
Application Number:	08709251
Application Number:	08717462
Application Number:	08746339
Application Number:	08749236
Application Number:	08941241
Application Number:	08722680
Application Number:	08759182
Application Number:	08990371
Application Number:	08747463
Application Number:	08747846
Application Number:	08752020
Application Number:	08781940
Application Number:	08766181
Application Number:	08777625
Application Number:	08797404
Application Number:	08798137
Application Number:	08804107
Application Number:	08808845
Application Number:	08802047
Application Number:	08823027
Application Number:	08834287
Application Number:	08902051
Application Number:	08920596
Application Number:	08917578
Application Number:	08928195
Application Number:	08923675
Application Number:	08933111
Application Number:	08936507
Application Number:	09163820
Application Number:	08888215
Application Number:	08986329
Application Number:	09220264
Application Number:	13292738
Application Number:	11538535
Application Number:	12447396
Application Number:	12663459

PATENT

REEL. 032786 FRAME. 0547

Property Type	Number
Application Number:	12187553
Application Number:	12893383
Application Number:	08764991
Application Number:	08773661
Application Number:	08773438
Application Number:	09005367
Application Number:	09023428
Application Number:	09057367
Application Number:	09066953
Application Number:	09073267
Application Number:	09072332
Application Number:	09443362
Application Number:	09089517
Application Number:	09073438
Application Number:	09099323
Application Number:	09104328
Application Number:	09161231
Application Number:	08957244
Application Number:	09196166
Application Number:	09686637
Application Number:	08958842
Application Number:	09001870
Application Number:	09217226
Application Number:	09383915
Application Number:	09333882
Application Number:	09044357
Application Number:	09045753
Application Number:	09383732
Application Number:	09300127
Application Number:	09306144
Application Number:	09080074
Application Number:	09120203
Application Number:	09094140
Application Number:	09310171
Application Number:	09083012
Application Number:	09411986
Application Number:	09131336
Application Number:	09128755
Application Number:	09167758

PATENT

REEL. 032786 FRAME. 0548

Property Type	Number
Application Number:	09862848
Application Number:	09305956
Application Number:	09224344
Application Number:	09217048
Application Number:	09217049
Application Number:	09548161
Application Number:	09248887
Application Number:	09240409
Application Number:	09778494
Application Number:	09283684
Application Number:	09248434
Application Number:	09309017
Application Number:	09313044
Application Number:	09372015
Application Number:	09337448
Application Number:	09359729
Application Number:	09359250
Application Number:	09500517
Application Number:	10359974
Application Number:	09405372
Application Number:	09387088
Application Number:	09408069
Application Number:	09228878
Application Number:	09444831
Application Number:	09594769
Application Number:	09283652
Application Number:	09588599
Application Number:	09252028
Application Number:	09461029
Application Number:	09454224
Application Number:	09522399
Application Number:	09885520
Application Number:	10019692
Application Number:	09736321
Application Number:	09621392
Application Number:	09499976
Application Number:	09512493
Application Number:	09474950
Application Number:	09631474

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REEL. 032786 FRAME. 0549

Property Type	Number
Application Number:	09401573
Application Number:	09658103
Application Number:	09472881
Application Number:	09374265
Application Number:	09717001
Application Number:	09657999
Application Number:	09887144
Application Number:	09748185
Application Number:	09749920
Application Number:	09585514
Application Number:	09698600
Application Number:	09866241
Application Number:	09931546
Application Number:	10000803
Application Number:	09835479
Application Number:	09985634
Application Number:	10311588
Application Number:	09609635
Application Number:	10036665
Application Number:	09708526
Application Number:	09998921
Application Number:	09973805
Application Number:	10479292
Application Number:	10750900
Application Number:	10112046
Application Number:	10112035
Application Number:	11229622
Application Number:	10704146
Application Number:	10471825
Application Number:	10475137
Application Number:	10947409
Application Number:	09999651
Application Number:	10011669
Application Number:	09970369
Application Number:	10077318
Application Number:	10185746
Application Number:	10661883
Application Number:	10157221
Application Number:	10012348

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REEL. 032786 FRAME. 0550

Property Type	Number
Application Number:	10536253
Application Number:	10509828
Application Number:	10506035
Application Number:	11225851
Application Number:	11298748
Application Number:	10595426
Application Number:	10597811
Application Number:	11662386
Application Number:	10581786
Application Number:	10584907
Application Number:	10580611
Application Number:	10581788
Application Number:	10596615
Application Number:	10586139
Application Number:	11573312
Application Number:	10857359
Application Number:	11576230
Application Number:	11720497
Application Number:	11915072
Application Number:	11813127
Application Number:	11916583
Application Number:	11914657
Application Number:	11995396
Application Number:	12090710
Application Number:	11915706
Application Number:	12088972
Application Number:	11921179
Application Number:	12097863
Application Number:	12090129
Application Number:	12064965
Application Number:	12278379
Application Number:	12094310
Application Number:	12373541
Application Number:	12447804
Application Number:	12527535
Application Number:	12520709
Application Number:	11733333
Application Number:	13158936
Application Number:	12447844

PATENT

REEL. 032786 FRAME. 0551

Property Type	Number
Application Number:	12441484
Application Number:	11684692
Application Number:	12598817
Application Number:	12665183
Application Number:	12522624
Application Number:	12666203
Application Number:	12522794
Application Number:	12522785
Application Number:	12665627
Application Number:	12679932
Application Number:	12674335
Application Number:	12739012
Application Number:	12676005
Application Number:	12992692
Application Number:	12667829
Application Number:	12674020
Application Number:	12991479
Application Number:	12105650
Application Number:	12920890
Application Number:	13956136
Application Number:	12234067
Application Number:	13281291
Application Number:	12993153
Application Number:	13062743
Application Number:	12997957
Application Number:	13061969
Application Number:	13128776
Application Number:	12342439
Application Number:	13126027
Application Number:	13130445
Application Number:	13061218
Application Number:	13127188
Application Number:	12993555
Application Number:	12990880
Application Number:	14056512
Application Number:	12507376
Application Number:	13130854
Application Number:	13263255
Application Number:	13140691

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REEL. 032786 FRAME. 0552

Property Type	Number
Application Number:	13142509
Application Number:	13144947
Application Number:	13129149
Application Number:	13319171
Application Number:	13264573
Application Number:	13320802
Application Number:	13144327
Application Number:	13145232
Application Number:	13148433
Application Number:	13393704
Application Number:	13391863
Application Number:	13378263
Application Number:	12758744
Application Number:	13509826
Application Number:	13516504
Application Number:	13394219
Application Number:	12639032
Application Number:	12650201
Application Number:	13580840
Application Number:	13505160
Application Number:	13580999
Application Number:	13699105
Application Number:	12972460
Application Number:	13124747
Application Number:	13575168
Application Number:	13049186
Application Number:	13075254
Application Number:	13824746
Application Number:	13144784
Application Number:	13144766
Application Number:	13050210
Application Number:	13981700
Application Number:	14005210
Application Number:	13099518
Application Number:	13043027
Application Number:	13992348
Application Number:	14000371
Application Number:	14004403
Application Number:	14113959

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REEL. 032786 FRAME. 0553

Property Type	Number
Application Number:	13257605
Application Number:	14122645
Application Number:	13155527
Application Number:	13155631
Application Number:	13178048
Application Number:	13271515
Application Number:	13228926
Application Number:	13381606
Application Number:	13765046
Application Number:	13816039
Application Number:	61705679
Application Number:	14035213
Application Number:	13722298
Application Number:	61707366
Application Number:	14039554
Application Number:	10451588
Application Number:	10502312
Application Number:	10597212
Application Number:	12090175
Application Number:	12349465
Application Number:	12759645
Application Number:	12868642
Application Number:	13409057
Application Number:	12457653
Application Number:	13071280
Application Number:	13894948
Application Number:	12678200
Application Number:	12724318
Application Number:	13109962
Application Number:	13109963
Application Number:	12205530
Application Number:	12913654
Application Number:	13312809
Application Number:	13312804
Application Number:	12523090
Application Number:	13051803
Application Number:	12209136
Application Number:	13316315
Application Number:	13590048

PATENT

REEL. 032786 FRAME. 0554

Property Type	Number
Application Number:	12252270
Application Number:	12963570
Application Number:	12963588
Application Number:	13185343
Application Number:	13185362
Application Number:	12392654
Application Number:	12909780
Application Number:	12363522
Application Number:	12404873
Application Number:	12836403
Application Number:	13563472
Application Number:	13345532
Application Number:	13802066
Application Number:	10341356
Application Number:	10036377
Application Number:	11147350
Application Number:	12247567
Application Number:	11828978
Application Number:	10465724
Application Number:	11896419
Application Number:	12648248
Application Number:	11729807
Application Number:	12673262
Application Number:	12705215
Application Number:	10607551
Application Number:	10438032
Application Number:	11016308
Application Number:	10737212
Application Number:	11325934
Application Number:	11445825
Application Number:	11469063
Application Number:	09671115
Application Number:	10078674
Application Number:	10125531
Application Number:	10192895
Application Number:	10630721
Application Number:	10775240
Application Number:	09974845
Application Number:	11735377

PATENT

REEL. 032786 FRAME. 0555

Property Type	Number
Application Number:	09078578
Application Number:	09273765
Application Number:	09224053
Application Number:	09671208
Application Number:	11459223
Application Number:	11538424
Application Number:	10659386
Application Number:	11322280
Application Number:	11364410
Application Number:	11441139
Application Number:	11864752
Application Number:	12176314
Application Number:	12111004
Application Number:	12506486
Application Number:	12423769
Application Number:	10902801
Application Number:	09737283
Application Number:	11682957
Application Number:	11549629
Application Number:	13353270
Application Number:	08284775
Application Number:	08921374
Application Number:	09165647
Application Number:	09992094
Application Number:	09588454
Application Number:	10653679
PCT Number:	EP2012060245

CORRESPONDENCE DATA

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Address Line 4: NEW YORK, NEW YORK 10005

ATTORNEY DOCKET NUMBER:	34408.01400
NAME OF SUBMITTER:	SURAJ K. BALUSU
SIGNATURE:	/Suraj K. Balusu 65519/

PATENT

REEL: 032786 FRAME: 0556

DATE SIGNED:	04/30/2014
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Total Attachments: 38

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AMENDED AND RESTATED
SHORT-FORM PATENTS SECURITY AGREEMENT

WHEREAS, Optis Cellular Technology, LLC, a Delaware limited liability company (the "Grantor") has applied for letters patent and has been granted letters patents in the United States Patent and Trademark Office, and is the owner of the patent applications and patents listed in the attached Schedule of Patents and Patent Applications associated therewith;

WHEREAS, the Grantor, contemporaneously with the execution of the Short-Form Patents Security Agreement (the "Existing Patent Security Agreement"), which is amended and restated hereby, entered into the Pledge and Security Agreement dated as of December 19, 2013 (as modified from time to time, the "Security Agreement"), in which the Grantor has granted certain interests in favor of Highbridge Principal Strategies, LLC, as collateral agent (the "Collateral Agent") for the benefit of the Secured Creditors (as defined therein);

WHEREAS, pursuant to the Security Agreement, the Grantor has agreed with the Collateral Agent and the Secured Creditors to execute this Amended and Restated Short-Form Patents Security Agreement to insert on the attached Schedule of Patents and Patent Applications certain additional patents acquired by the Grantor in accordance with the Letter Agreement dated as of March 31, 2014 among the Grantor, Optis CT Holdings, LLC, Optis Cellular Technology, LLC, Telefonaktiebolaget L M Ericsson (Publ), Cluster LLC, LG Electronics, Inc., Highbridge Principal Strategies, LLC and the lenders party thereto;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, this Agreement hereto hereby amends and restates the Existing Patent Security Agreement in its entirety as follows: the Grantor hereby grants to the Collateral Agent for the benefit of the Secured Creditors, to the extent provided in the Security Agreement (the terms and conditions of which are hereby incorporated herein), a security interest in all of its right, title and interest in, to and under all the patents and patent applications whether now owned or at any time hereafter acquired, of the Grantor issued by, or for which applications have been filed with, the United States Patent and Trademark Office, including the patents and applications on the attached Schedule of Patents and Patent Applications, and all related patents and applications thereto, including all reissuances, continuations, continuations-in-part, revisions, extensions, re-examinations thereof, any patents and patent applications claiming priority to said patents and patent applications or from which said patents and patent applications claim priority, and pending applications associated therewith, as collateral security for the prompt and complete payment and performance when due of all the Secured Obligations (as defined in the Security Agreement). Notwithstanding the foregoing, in the event of any conflict between this Short-Form Patents Security Agreement and the Security Agreement, the Security Agreement shall control.

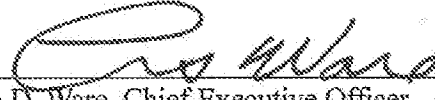
Dated: April 24, 2014

[Signature Page to Follow]

Short-Form Patent Security Agreement

OPTIS CELLULAR TECHNOLOGY, LLC

By:



Leslie D. Ware, Chief Executive Officer

Short-Form Patent Security Agreement

PATENT
REEL: 032786 FRAME: 0559

SCHEDULE OF
PATENTS AND PATENT APPLICATIONS

Patents of Grantor

Ref No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
P06900 FAM	US	GRANTED	Remotely Retrieving SIM Stored Data Over a Connection-less Communications Link	08/623507	1996-03-28	5915225	1999-06-22
P07649 FAM	US	GRANTED	A mobile communication unit	08/994956	1997-12-19	6128381	2000-10-03
P08444 FAM	US	GRANTED	A method for selecting a combination of modulation and channel coding schemes in a digital communication system	08/921321	1997-08-29	6167031	2000-12-26
P09693 FAM	US	GRANTED	Power control in a CDMA mobile communications system	09/251018	1999-02-16	6463296	2002-10-08
P10039 FAM	US	GRANTED	Method for Determining Initial Charge on Battery	09/471603	1999-12-23	6236214	2001-05-22
P10059 FAM	US	GRANTED	Thermal Transmission Control of Wireless Data Modem	09/196127	1998-11-20	6760311	2004-07-06
P10059 FAM	US	GRANTED	Thermal Transmission Control of Wireless Data Modem	10/780783	1998-11-20	7860018	2010-12-28

Short-Form Patent Security Agreement

#4835-6558-2615v2

PATENT
REEL: 032786 FRAME: 0560

Ref No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
P10830 FAM	US	GRANTED	Control of power ratios for in-phase and quadrature channels in a communications system	09/140470	1998-08-26	6337876	2002-01-08
P10932 FAM	US	GRANTED	Synchronization and detection of modulation type	09/340254	1999-07-01	6463107	2002-10-08
P11745 FAM	US	GRANTED	Battery Savings for Advanced Features	09/713505	2000-11-15	6697953	2004-02-24
P11919 FAM	US	GRANTED	Method and apparatus for broadcasting system information in a cellular communications network	09/572846	2000-05-18	6628946	2003-09-30
P12470 FAM	US	GRANTED	IQ Modulation Systems and Methods That Use Separate Phase and Amplitude Signal Paths	09/703037	2000-10-31	6975686	2005-12-13
P12470 FAM	US	GRANTED	IQ Modulation Systems and Methods That Use Separate Phase and Amplitude Signal Paths	09/746823	2000-12-22	7072421	2006-07-04
P13611 FAM	US	FILED	Method and device for improving the transmission efficiency in a communication system with a layered protocol stack	11/551937	2001-06-28		

Short-Form Patent Security Agreement

#4835-6558-2615v2

PATENT
REEL: 032786 FRAME: 0561

Ref No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
P13611 FAM	US	GRANTED	Method and device for improving the transmission efficiency in a communication system with a layered protocol stack	09/894297	2001-06-28	7145897	2006-12-05
P13955 FAM	US	GRANTED	Battery capacity calibration	09/859237	2001-05-16	6630814	2003-10-07
P16070 FAM	US	GRANTED	SECURITY RECONFIGURATION IN A UNIVERSAL MOBILE TELECOMMUNICATIONS SYSTEM	10/259435	2002-09-30	7020455	2006-03-28
P24251 FAM	US	FILED	METHODS AND SYSTEMS FOR SCHEDULING RESOURCES IN A TELECOMMUNICATION SYSTEM	13/874809	2013-05-01		
P24251 FAM	US	GRANTED	METHODS AND SYSTEMS FOR SCHEDULING RESOURCES IN A TELECOMMUNICATION SYSTEM	12/664962	2007-12-19	8437293	2013-05-07
P25674 FAM	US	FILED	METHOD AND ARRANGEMENT IN A TELECOMMUNICATION SYSTEM	12/866534	2008-09-18		
P07121 FAM	US	GRANTED	A Relaxation Oscillator of Reduced Complexity Using CMOS Equivalent of a Four-Layer Diode	08/668815	1996-06-24	5654677	1997-08-05

Short-Form Patent Security Agreement

#4835-6558-2615v2

PATENT
REEL: 032786 FRAME: 0562

Ref No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
P07293 FAM	US	GRANTED	Up Converted Home Base Station	08/697742	1996-08-29	5930728	1999-07-27
P07298 FAM	US	GRANTED	Mobile-Assisted Handover Between a Private Radio Comm's. Network and Public Mobile Network	08/708034	1996-08-30	6112088	2000-08-29
P07304 FAM	US	GRANTED	Telephone Having Sealed Acoustical Passageway through Flip Cover Hinge	08/709251	1996-09-10	5915015	1996-09-10
P07315 FAM	US	GRANTED	Antenna Matching Network Switching Requiring No. Switch Contacts	08/717462	1996-09-20	5874921	1999-02-23
P07426 FAM	US	GRANTED	System connector	08/746339	1996-11-08	6212402	2001-04-03
P07448 FAM	US	GRANTED	Method for Increasing Control Channel Capacity in a Communication System	08/749236	1996-11-15	5933418	1999-08-03
P07453 FAM	US	GRANTED	Receive Only Watch	08/941241	1997-09-30	6108534	2000-08-22
P07462 FAM	US	GRANTED	Flip On/Off Detector	08/722680	1996-09-30	5918188	1999-06-29

Short-Form Patent Security Agreement

#4833-6558-2615v2

PATENT
REEL: 032786 FRAME: 0563

Ref No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
P07501 FAM	US	GRANTED	Local time manager	08/759182	1996-12-04	5818920	1998-10-06
P07510 FAM	US	GRANTED	Arrangement, system and method relating to telecommunications acces and control	08/990371	1997-12-15	6049712	2000-04-11
P07533 FAM	US	GRANTED	Multi-Layered Interface for Interconnecting Application Programs to System Bus Lines for Electronic Devices	08/747463	1996-11-12	6651104	2003-11-18
P07534 FAM	US	GRANTED	Electroluminescent Backlit Devices	08/747846	1996-11-13	5971557	1999-10-26
P07540 FAM	US	GRANTED	Time-Multiplexed short message Acknowledgement systems and Methods	08/752020	1996-11-19	6606309	2003-08-12
P07558 FAM	US	GRANTED	Method for c in a Mobile Satellite Communication System	08/781940	1996-12-03	5956646	1999-09-21
P07604 FAM	US	GRANTED	Method and Apparatus for Initializing Semiconductor Memory	08/766181	1996-12-12	6229737	2001-05-08
P07645 FAM	US	GRANTED	SIM Card Containment Assembly	08/777625	1996-12-31	5883786	1999-03-16

Short-Form Patent Security Agreement

#4835-6558-2615v2

PATENT
REEL: 032786 FRAME: 0564

Ref No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
P07774 FAM	US	GRANTED	Adaptive Frequency Reuse Plan	08/797404	1997-02-10	5974324	1999-10-26
P07776 FAM	US	GRANTED	Mobile Satellite Phone System Incorporating Symmetrical and Non-Symmetrical Waveform Modes	08/798137	1997-02-12	6650868	2003-11-18
P07832 FAM	US	GRANTED	Support of multiple modulation levels for a cellular traffic channel	08/804107	1997-02-20	6061549	2000-05-09
P07836 FAM	US	GRANTED	Method and Apparatus for Assigning Personality Information to Roaming Mobile Radios	08/808845	1997-02-28	6002930	1999-12-14
P07854 FAM	US	GRANTED	Apparatus and associated method for adaptively selecting a paging area in which to page a mobile terminal	08/802047	1997-02-18	6058308	2000-05-02
P07898 FAM	US	GRANTED	Satellite Telecommunications Repeaters and Retransmission Methods	08/823027	1997-03-21	5937332	1999-08-10
P08018 FAM	US	GRANTED	Latch Mechanism for Mobile Communication Devices	08/834287	1997-04-15	5831579	1998-11-03

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Ref No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
P08347 FAM	US	GRANTED	Method for Reducing Scan Time	08/902051	1997-07-29	6052590	2000-04-18
P08399 FAM	US	GRANTED	Fixed and Mobile Satellite Radiotelephone Systems and Methods with Capacity Sharing	08/920596	1997-08-29	6052586	2000-04-18
P08408 FAM	US	GRANTED	Method and apparatus for standby state cell selection in a cellular telephone system	08/917578	1997-08-22	6163694	2000-12-19
P08458 FAM	US	GRANTED	Frame Structure for Cellular Telephone	08/928195	1997-09-12	6058293	2000-05-02
P08470 FAM	US	GRANTED	System and Method for Self-Adaptive Maximum Likelihood Sequence Detection	08/923675	1997-09-04	6134277	2000-10-17
P08476 FAM	US	GRANTED	Circuit and Method for Using the I2C Serial Protocol with Multiple Voltages	08/933111	1997-09-18	6078192	2000-06-20
P08477 FAM	US	GRANTED	Methods and Systems for Communicating Information Using Separable Modulation Constellations	08/936507	1997-09-24	6078626	2000-06-20
P08482 FAM	US	GRANTED	Integrated means for communication	09/163820	1998-09-30	6470174	2002-10-22

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Ref No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
P08594 FAM	US	GRANTED	Methods and Apparatus for Selectively Displaying Information Entered from a Radiotelephone Keypad	08/888215	1997-07-03	6208877	2001-03-27
P08774 FAM	US	GRANTED	Improved Audio in a Mobile Receiver	08/986329	1997-12-08	6317613	2001-11-13
P08851 FAM	US	GRANTED	A hand-held display device and a method of displaying screen images	09/220264	1998-12-23	6411275	2002-06-25
P21295 FAM	US	FILED	Signaling Support for Antenna Selection Using Subset Lists and Subset Masks	13/292738	2011-11-09		
P21295 FAM	US	GRANTED	Signaling Support for Antenna Selection Using Subset Lists and Subset Masks	11/538535	2006-10-04	8068872	2011-11-29
P22906 FAM	US	FILED	LENGTH INDICATOR OPTIMIZATION	12/447396	2007-06-20		
P24242 FAM	US	GRANTED	DATA BLOCK SIZE MANAGEMENT IN A COMMUNICATION SYSTEM UTILIZING HYBRID AUTOMATIC REPEAT REQUESTS WITH SOFT COMBINING	12/663459	2008-05-09	8341484	2012-12-25

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Ref No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
P26464 FAM	US	GRANTED	SYNCHRONIZATI ON DETECTION USING BANDWIDTH AND ANTENNA CONFIGURATION	12/187353	2008-08-07	7986758	2011- 07-26
P30100 FAM	US	GRANTED	Methods and arrangements in a mobile telecommunication network	12/893383	2010-09-29	8447343	2013- 05-21

Ref No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
P07611 FAM	US	GRANTED	Multi-Sector Antennae Configuration	08/764991	1996-12-16	5936580	1999-08-10
P07630 FAM	US	GRANTED	Antenna System for Dual Mode Satellite/Cellular Portable	08/773661	1996-12-24	6025816	2000-02-15
P07635 FAM	US	GRANTED	Apparatus for Enabling a Keypad in Response to Antenna Extension	08/773438	1996-12-27	5987311	1999-11-16
P07651 FAM	US	GRANTED	Device for antennas	09/005367	1998-01-09	6133877	2000-10-17
P07819 FAM	US	GRANTED	Compact dual polarized antenna element	09/023428	1998-02-13	6061032	2000-05-09
P07930 FAM	US	GRANTED	An antenna unit	09/057367	1998-04-08	5990839	1999-11-23
P07974 FAM	US	GRANTED	An apparatus and a method relating to antenna systems	09/066953	1998-04-28	6018320	2000-01-25
P08009 FAM	US	GRANTED	Radio antenna arrangement with variable lobe width	09/073267	1998-05-06	6218987	2001-04-17
P08012 FAM	US	GRANTED	Method and device for beamport combining	09/072332	1998-05-04	6081233	2000-06-27
P08012 FAM	US	GRANTED	Method and device for beamport combining	09/443362	1998-05-04	6225947	2001-05-01
P08117 FAM	US	GRANTED	Device in antenna system	09/089517	1998-06-03	6100856	2000-08-08
P08121 FAM	US	GRANTED	Antenna device	09/073438	1998-05-06	6104347	2000-08-15

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Ref No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
P08168 FAM	US	GRANTED	Balanced diversity	09/099323	1998-06-18	6574461	2003-06-03
P08208 FAM	US	GRANTED	Microstrip structure	09/104328	1998-06-25	5977915	1999-11-02
P08522 FAM	US	GRANTED	Zero-bias detector	09/161231	1998-09-28	6097247	2000-08-01
P08610 FAM	US	GRANTED	Terminal antenna for communications systems	08/957244	1997-10-24	6034634	2000-03-07
P08719 FAM	US	GRANTED	Suspended Double Microstrip	09/196166	1998-11-20	6150982	2000-11-21
P08720 FAM	US	GRANTED	Suspended Double Microstrip in PCB	09/686637	2000-10-11	6266016	2001-07-24
P08911 FAM	US	GRANTED	Multiple band telescope type antenna for mobile phone	08/958842	1997-10-28	6310578	2001-10-30
P08973 FAM	US	GRANTED	Retractable Radiotelephone Antennas with Extended Feeds	09/001870	1997-12-31	6097934	2000-08-01
P09014 FAM	US	GRANTED	Low voltage transistor biasing	09/217226	1998-12-21	6255885	2001-07-03
P09059 FAM	US	GRANTED		09/383915	1999-08-26	6369677	2002-04-09
P09227 FAM	US	GRANTED	Anordning och förfarande för skyddande av ett föremål	09/333882	1999-06-15	6389777	2002-05-21
P09230 FAM	US	GRANTED	Link-efficiency based scheduling in radio data communications systems	09/044357	1998-03-19	6236656	2001-05-22
P09274 FAM	US	GRANTED	Radio Frequency Antenna	09/045753	1998-03-20	6204816	2001-03-20
P09291 FAM	US	GRANTED	Antenna arrangement	09/383732	1999-08-26	6239750	2001-05-29
P09357 FAM	US	GRANTED	Skapande av avsiktlig sidlob	09/300127	1999-04-27	6542519	2003-04-01
P09451 FAM	US	GRANTED	Impedance-matching device	09/306144	1999-05-06	6222500	2001-04-24
P09504 FAM	US	GRANTED	Flip Open Antenna for a Communication Device	09/080074	1998-05-15	5995052	1999-11-30
P09520 FAM	US	GRANTED		09/120203	1998-07-22	6334202	2001-12-25
P09532 FAM	US	GRANTED	Mobile Unit for Pilot Symbol Assisted Wireless System and Method of Improving Performance Thereof	09/094140	1998-06-09	6381290	2002-04-30

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Ref No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
P09538 FAM	US	GRANTED	Metod för framställning av en antennstruktur och antennstruktur framställd medelst nämnda metod	09/310171	1999-05-12	6285335	2001-09-04
P09618 FAM	US	GRANTED	Apparatus and Method of Formatting a List for Display on a Touchscreen	09/083012	1998-05-21	6157379	2000-12-05
P09703 FAM	US	GRANTED	Improvement of polarization isolation in antennas	09/411986	1999-11-17	6225950	2001-05-01
P09749 FAM	US	GRANTED		09/131336	1998-08-07	6202074	2001-03-13
P09952 FAM	US	GRANTED	Antenna for Hand-Held Communication User Terminal	09/128755	1998-08-04	6107968	2000-08-22
P10029 FAM	US	GRANTED	Integral Antenna Assembly and Housing for Electronic Device	09/167758	1998-10-07	6107970	2000-08-22
P10094 FAM	US	GRANTED	Paging Antenna and Radiotelephones Incorporating Same	09/862848	2001-05-21	6430419	2002-08-06
P10094 FAM	US	GRANTED	Paging Antenna and Radiotelephones Incorporating Same	09/305956	1999-05-06	6259897	2001-07-10
P10102 FAM	US	GRANTED	Integrated Transmitter and Receiver Components for a Dual-Band Transceiver	09/224344	1998-12-31	6522895	2003-02-18
P10122 FAM	US	GRANTED	Flat Blade Antenna and Flip Mounting Structures	09/217048	1998-12-21	6232924	2001-05-15
P10134 FAM	US	GRANTED	Antenna Electrical Coupling Configurations	09/217049	1998-12-21	6249688	2001-06-19
P10224 FAM	US	GRANTED	Tunable microwave devices	09/548161	2000-04-13	6433375	2002-08-13
P10361 FAM	US	GRANTED	Systems & Methods for Coaxially Coupling an Antenna Through an Insulator	09/248887	1999-02-11	6215449	2001-04-10
P10390 FAM	US	GRANTED	Method Of Conformal Coating Internal Circuitry Of Assembled Equipment	09/240409	1999-01-29	6219258	2001-04-17
P10390 FAM	US	GRANTED	Method Of Conformal Coating Internal Circuitry Of Assembled Equipment	09/778494	2001-02-07	6629365	2003-10-07

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Ref No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
P10394 FAM	US	GRANTED	An Adaptive Rate Channel Scanning Method For TDMA Wireless Communication Systems	09/283684	1999-04-01	6807163	2004-10-19
P10396 FAM	US	GRANTED	S&M for Coaxially Coupling an Antenna to a Radiotelephone through a Window & Amplifying Signals Adjacent and Inside the Window	09/248434	1999-02-11	6069588	2000-05-30
P10402 FAM	US	GRANTED	Mechanical Spring Antenna and Radiotelephones Incorporating Same	09/309017	1999-05-10	6272356	2001-08-07
P10429 FAM	US	GRANTED	Parasitic Dualband Matching Of An Internal Looped Dipole Antenna	09/313044	1999-05-17	6198943	2001-03-06
P10466 FAM	US	GRANTED	Apparatus and Methods for Extended Base Station Range Using Staggered Uplink Frame Structures	09/372015	1999-08-11	6633559	2003-10-14
P10474 FAM	US	GRANTED	Systems and Methods for Communicating Messages Among Cascaded Devices by Bit Shifting	09/337448	1999-06-21	6628676	2003-09-30
P10477 FAM	US	GRANTED	Methods for Forming Charge Coupled Devices Including Buried Transmissions Gates	09/359729	1999-07-22	6204826	2001-03-20
P10530 FAM	US	GRANTED	Multiple Frequency-band branch antenna	09/359250	1999-07-22	6198442	2001-03-06
P10548 FAM	US	GRANTED	Antenna Push Button Assembly and Portable Radiotelephone Including Same	09/500517	2000-02-09	6545642	2003-04-08
P10548 FAM	US	GRANTED	Antenna Push Button Assembly and Portable Radiotelephone Including Same	10/359974	2003-02-07	6812898	2004-11-02
P10656 FAM	US	GRANTED	External Driving Circuit for Bridge Type Synchronous Rectification	09/405372	1999-09-24	6111769	2000-08-29
P10792 FAM	US	GRANTED	Mobile telephone apparatus and method for call divert service	09/387088	1999-08-31	6611682	2003-08-26
P10823 FAM	US	GRANTED	Method and arrangement for improving null depths	09/408069	1999-09-29	6236364	2001-05-22

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Ref No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
P10850 FAM	US	GRANTED	Communications network and method for directly routing calls to mobile subscribers using an internet protocol network	09/228878	1999-01-12	6693894	2004-02-17
P10912 FAM	US	GRANTED		09/444831	1999-11-22	6215369	2001-04-10
P10972 FAM	US	GRANTED	Tuneable spiral antenna	09/594769	2000-06-16	6335710	2002-01-01
P11019 FAM	US	GRANTED	Base station subsystem and method for handling an increase in traffic volume that overloads a terrestrial link in an internet protocol network	09/283652	1999-04-01	6687226	2004-02-03
P11065 FAM	US	GRANTED	A method and an arrangement for preventing metastability	09/588599	2000-06-07	6778620	2004-08-17
P11181 FAM	US	GRANTED	METHOD AND SYSTEM FOR FAST MAXIMUM A POSTERIORI DECODING	09/252028	1999-02-18	6343368	2002-01-29
P11188 FAM	US	GRANTED	Method and systems for dynamic threshold adjustment for handoffs in radio communication system	09/461029	1999-12-15	6754493	2004-06-22
P11244 FAM	US	GRANTED	Scanning lens antenna	09/454224	1999-12-02	6195059	2001-02-27
P11317 FAM	US	GRANTED	Resonator med variabel resonansfrekvens	09/522399	2000-03-09	6466114	2002-10-15
P11415 FAM	US	GRANTED	Electrically tunable device and a method relating thereto	09/885520	2001-06-20	6563153	2003-05-13
P11514 FAM	US	GRANTED	Automatic Implementation of Channel Plan Change in Cellular Network	10/019692	2000-07-04	6985738	2006-01-10
P11586 FAM	US	GRANTED		09/736321	2000-12-15	6433423	2002-08-13
P11624 FAM	US	GRANTED	System for Increasing Antenna Efficiency	09/621392	2000-07-21	6266019	2001-07-24
P11631 FAM	US	GRANTED	A Dual Band Compact Internal Antenna	09/499976	2000-02-08	6184836	2001-02-06
P11656 FAM	US	GRANTED	Compact, Broadband Inverted-F Antennas with Conductive Elements and Wireless Communicators Incorporating Same	09/512493	2000-02-24	6218992	2001-04-17

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Ref No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
P11664 FAM	US	GRANTED	MS Supported Private System Roaming	09/474950	1999-12-30	6829480	2004-12-07
P11712 FAM	US	GRANTED		09/631474	2000-08-03	6925072	2005-08-02
P11787 FAM	US	GRANTED	Split Inductor with Fractional Turn of Each Winding and PCB Including Same	09/401573	1999-09-22	6307458	2001-10-23
P11969 FAM	US	GRANTED	An arrangement relating to oscillators	09/658103	2000-09-08	6606006	2003-08-12
P12119 FAM	US	GRANTED	Methods and apparatus for measuring control carrier signal strength in wireless communications systems employing discontinuous control carrier transmissions	09/472881	1999-12-28	6600758	2003-07-29
P12170 FAM	US	GRANTED	METHOD OF AND APPARATUS FOR BEAM REDUCTION AND COMBINING IN A RADIO COMMUNICATIONS SYSTEM	09/374265	1999-08-16	6470192	2002-10-22
P12197 FAM	US	GRANTED	Scanning continuous antenna reflector device	09/717001	2000-11-22	6326931	2001-12-04
P12202 FAM	US	GRANTED	Sparse array antenna	09/657999	2000-09-08	6351243	2002-02-26
P12215 FAM	US	GRANTED	An Antenna for a Portable Communication Apparatus, and a Portable Communication Apparatus Comprising such an Antenna	09/887144	2001-06-22	7053839	2006-05-30
P12231 FAM	US	GRANTED	Anordning vid reflektorantenn	09/748185	2000-12-27	6429826	2002-08-06
P12267 FAM	US	GRANTED	Method and apparatus relating to radio communication	09/749920	2000-12-29	6826410	2004-11-30
P12433 FAM	US	GRANTED	Antenna Systems Having Capacitively Coupled Internal Retractable Antennas and Wireless Communicators Incorporating Same	09/585514	2000-06-01	6225951	2001-05-01
P12441 FAM	US	GRANTED	Notch antennas and wireless communicators incorporating same	09/698600	2000-10-27	6424300	2002-07-23
P12603 FAM	US	GRANTED	Time Interval Based Channel Estimation With Transmit Diversity	09/866241	2001-05-25	6711124	2004-03-23

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Ref No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
P12631 FAM	US	GRANTED	Transmitter Apparatus and Methods Using Frequency Doubling Modulation	09/931546	2001-08-16	6480046	2002-11-12
P12897 FAM	US	GRANTED	PHYSICAL CHANNEL RELATION SYSTEM/METHOD FOR USE IN CELLULAR TELECOMMUNICATIONS NETWORK	10/000803	2001-12-04	7239621	2007-07-03
P13087 FAM	US	GRANTED	Communications system	09/835479	2001-04-16	6711405	2004-03-23
P13098 FAM	US	GRANTED	Gruppantenn med smälare sidolöber i horisontalplanet	09/985634	2001-11-05	6611239	2003-08-26
P13130 FAM	US	GRANTED		10/311588	2001-07-17	7245921	2007-07-17
P13270 FAM	US	GRANTED	System and method for testing a communication system	09/609635	2000-07-03	6662008	2003-12-09
P13619 FAM	US	GRANTED	A multilayer balun transformer structure	10/036665	2001-12-21	6603383	2003-08-05
P13667 FAM	US	GRANTED	Method and apparatus for providing downlink power control in radio communication systems employing virtual cells	09/708526	2000-11-09	6735451	2004-05-11
P13816 FAM	US	GRANTED	Using statistically ascertained position for starting synchronization searcher during diversity handover	09/998921	2001-12-03	6980803	2005-12-27
P13941 FAM	US	GRANTED		09/973805	2001-10-11	6549153	2003-04-15
P13984 FAM	US	GRANTED	Connection procedure	10/479292	2002-05-29	7620007	2009-11-17
P14029 FAM	US	GRANTED	Micro Electromechanical Switches	10/750900	2004-01-05	6930873	2005-08-16
P14029 FAM	US	GRANTED	Micro Electromechanical Switches	10/112046	2002-04-01	6720851	2004-04-13
P14031 FAM	US	GRANTED	Micro Electromechanical Switches	10/112035	2002-04-01	6798321	2004-09-28
P14043 FAM	US	GRANTED	Ferroelectric devices and method relating thereto.	11/229622	2005-09-20	7274277	2007-09-25
P14043 FAM	US	GRANTED	Ferroelectric devices and method relating thereto.	10/704146	2002-05-08	6985054	2006-01-10

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Ref No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
P14249 FAM	US	GRANTED	Multiplexing method in a multi carrier transmit diversity system	10/471825	2002-03-01	7477697	2009-01-13
P14252 FAM	US	GRANTED	Printed circuit board integrated switch	10/475137	2001-04-17	7102480	2006-09-05
P14438 FAM	US	GRANTED	An arrangement and a method relating to phase locking	10/947409	2003-03-27	6946916	2005-09-20
P14830 FAM	US	GRANTED	APPARATUS AND METHOD FOR CHANNEL REQUEST IN A WIRELESS COMMUNICATION SYSTEM	09/999651	2001-10-30	7457263	2008-11-25
P14832 FAM	US	GRANTED		10/011669	2001-10-29	7061884	2006-06-13
P14879 FAM	US	GRANTED	Speech Recognition Using Microphone Antenna Array	09/970369	2001-10-02	6937980	2005-08-30
P15055 FAM	US	GRANTED	Assembly for mounting power semiconductive modules to heat dissipators	10/077318	2002-02-15	6545352	2003-04-08
P15146 FAM	US	GRANTED	Downlink Load Sharing by Nulling, Beam Steering and Beam Selection	10/185746	2002-06-28	6667712	2003-12-23
P15146 FAM	US	GRANTED	Downlink Load Sharing by Nulling, Beam Steering and Beam Selection	10/661883	2003-09-12	6853333	2005-02-08
P15146 FAM	US	GRANTED	Downlink Load Sharing by Nulling, Beam Steering and Beam Selection	10/661883	2003-09-12	6853333	2005-02-08
P15152 FAM	US	GRANTED	METHOD AND ARRANGEMENT IN A COMMUNICATION SYSTEM	10/157221	2002-05-29	7187664	2007-03-06
P15278 FAM	US	GRANTED	Method and Apparatus for Segmenting a Data Packet	10/012348	2001-12-12	7224703	2007-05-29
P16015 FAM	US	FILED	ASSIGNING TIME SLOTS DURING TRANSMISSION GAPS OF A FIRST PROTOCOL COMMUNICATION TO A SECOND PROTOCOL COMMUNICATION	10/536253	2002-12-19		
P16245 FAM	US	GRANTED	COMPARATOR OFFSET CALIBRATION FOR A/D CONVERTERS	10/509828	2003-02-24	7075465	2006-07-11

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Ref No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
P16501 FAM	US	GRANTED	Signal receiver devices and methods	10/506035	2002-05-31	7602866	2009-10-13
P16509 FAM	US	GRANTED	A Substrate Structure, a Method and an Arrangement for Producing Such Substrate Structure	11/225851	2003-03-14	7535094	2009-05-19
P16974 FAM	US	GRANTED	TRANSMISSION LINE	11/298748	2003-06-13	7102456	2006-09-05
P17559 FAM	US	GRANTED	A multiband PLL arrangement and a method of controlling such arrangement	10/595426	2003-10-23	7738618	2010-06-15
P18071 FAM	US	GRANTED	Tunable arrangements	10/597811	2004-02-10	7903040	2011-03-08
P18403 FAM	US	GRANTED	RADIO QUALITY BASED CHANNEL RESOURCE MANAGEMENT	11/662386	2004-10-25	8107425	2012-01-31
P18415 FAM	US	GRANTED	A delay locked loop with precision controlled delay	10/581786	2003-12-10	7456664	2008-11-25
P18796 FAM	US	GRANTED	Antenna device, and array antenna, with planar notch element feed	10/584907	2004-12-27	7403169	2008-07-22
P18833 FAM	US	GRANTED	Scanable sparse antenna array	10/580611	2003-11-27	7696945	2010-04-13
P18882 FAM	US	GRANTED	An oscillator circuit with tuneable signal delay means	10/581788	2003-12-10	7352253	2008-04-01
P18918 FAM	US	GRANTED	RESOURCE RESERVATION IN A PACKET SWITCHED TELECOMMUNICATIONS NETWORK	10/596615	2003-12-19	7881196	2011-02-01
P19183 FAM	US	GRANTED	An improved tuneable delay line	10/586139	2004-03-09	7642883	2010-01-05
P19309 FAM	US	GRANTED	A Tuneable resonator	11/573312	2004-07-06	7548142	2009-06-16
P19419 FAM	US	GRANTED	SAIC-compensated modulation scheme management	10/857359	2004-06-01	7471928	2008-12-30
P19469 FAM	US	GRANTED	Pre-alignment outside an antenna measurement range	11/576230	2004-09-30	7667656	2010-02-23
P19727 FAM	US	GRANTED	Coupling net and MMIC amplifier	11/720497	2004-12-03	7489197	2009-02-10
P19834 FAM	US	GRANTED	A phase shifter device	11/915072	2005-06-10	7714681	2010-05-11

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Ref No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
P20076 FAM	US	GRANTED	An improved system for cellular telephony, and an antenna for such a system	11/813127	2004-12-30	8068878	2011-11-29
P20140 FAM	US	GRANTED	A tunable circuit arrangement and a method for providing such an arrangement	11/916583	2005-06-09	7936235	2011-05-03
P20215 FAM	US	GRANTED	ISR Title: A COMMUNICATION NODE AND A METHOD FOR ROUTING TRAFFIC IN A COMMUNICATION NETWORK BY CALCULATING AT LEAST ONE METRIC FOR AT LEAST ONE LINK AND A SENSITIVITY PARAMETER FOR SAID METRIC.	11/914657	2005-06-20	8023424	2011-09-20
P20336 FAM	US	GRANTED	AN ARRANGEMENT FOR PEAK-FIELD SUPPRESSION	11/995396	2005-07-15	8218283	2012-07-10
P20419 FAM	US	GRANTED	A TRANSCONDUCTANCE STAGE ARRANGEMENT	12/090710	2005-10-20	7626461	2009-12-01
P20640 FAM	US	GRANTED	Technique for Controlling Handovers within a Multi-Radio Wireless Communication System	11/915706	2005-05-30	8213382	2012-07-03
P20774 FAM	US	GRANTED	OSCILLATING CIRCUIT ARRANGEMENT AND METHOD RELATING THERETO	12/088972	2005-10-05	7688153	2010-03-30
P20846 FAM	US	GRANTED		11/921179	2006-04-18	8031673	2011-10-04
P20848 FAM	US	GRANTED	ARRAY ANTENNA WITH ENHANCED SCANNING	12/097863	2005-12-23	7855690	2010-12-21
P21027 FAM	US	FILED	METHOD FOR POWER CONTROL IN A WIRELESS STATION	12/090129	2005-10-14		
P21195 FAM	US	FILED	Method and arrangement relating to distribution of control for wireless communications	12/064965	2005-08-29		
P21221 FAM	US	GRANTED	Channel Estimator and Method for Channel Estimation	12/278379	2007-02-08	8121231	2012-02-21

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Ref No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
P21314 FAM	US	GRANTED	A SUBHARMONICALLY PUMPED MIXER	12/094310	2005-11-23	8249541	2012-08-21
P21879 FAM	US	GRANTED	TRIMMING OF WAVEGUIDE FILTERS	12/373541	2006-07-13	8183960	2012-05-22
P21880 FAM	US	GRANTED	Method and Arrangement for a Voltage Controlled Oscillator Circuit	12/447804	2006-10-30	7952445	2011-05-31
P22004 FAM	US	GRANTED	METHOD FOR REPETITIVE TRANSMISSIONS IN DIFFERENT DIRECTIONS	12/527535	2007-02-16	8195258	2012-06-05
P22025 FAM	US	GRANTED	A Dual Polarized Waveguide Feed Arrangement	12/520709	2006-12-21	8115565	2012-02-14
P22241 FAM	US	GRANTED	Method and Apparatus for Cancellation of Partially Known Interference Using Transmit Diversity Based Interference Cancellation	11/733333	2007-04-10	8000419	2011-08-16
P22241 FAM	US	GRANTED	Method and Apparatus for Cancellation of Partially Known Interference Using Transmit Diversity Based Interference Cancellation	13/158936	2011-06-13	8265213	2012-09-11
P22425 FAM	US	GRANTED	Method for reducing Delay in a Communication System Employing HARQ	12/447844	2006-11-01	8325650	2012-12-04
P22432 FAM	US	GRANTED	Distributing signals for load balancing of power amplifiers	12/441484	2007-09-06	8503402	2013-08-06
P22998 FAM	US	GRANTED		11/684692	2007-03-12	8515377	2013-08-20
P23082 FAM	US	GRANTED	A dual polarized antenna with null-fill	12/598817	2007-05-04	8212732	2012-07-03
P23146 FAM	US	GRANTED	An Oscillator Arrangement	12/665183	2007-06-20	8525604	2013-09-03
P23264 FAM	US	GRANTED	A METHOD OF DETERMINING RADIO CHANNEL CHARACTERISTICS	12/522624	2007-01-10	8200210	2012-06-12
P23328 FAM	US	GRANTED	Continued telecommunication with weak links	12/666203	2007-06-25	8380525	2013-02-19
P23574 FAM	US	GRANTED	CALIBRATION METHOD AND DEVICE IN TELECOMMUNICATION SYSTEM	12/522794	2008-02-06	8401485	2013-03-19

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Ref No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
P23583 FAM	US	GRANTED	METHOD AND ARRANGEMENT RELATING TO TELECOMMUNICATIONS	12/522785	2007-02-26	8369461	2013-02-05
P23791 FAM	US	GRANTED	A Method for compensating a radiation beam to beam steering	12/665627	2007-06-21	8260336	2012-09-04
P23830 FAM	US	GRANTED	AN IMPROVED HARTLEY VOLTAGE CONTROLLED OSCILLATOR	12/679932	2007-09-25	8169269	2012-05-01
P23986 FAM	US	FILED	SCHEDULING IN WIRELESS NETWORKS	12/674335	2007-08-21		
P24045 FAM	US	GRANTED	A DUAL-BAND COUPLED VCO	12/739012	2007-10-23	8125282	2012-02-28
P24069 FAM	US	GRANTED	SIGNAL MODULATION FOR SWITCHED MODE POWER AMPLIFIERS	12/676005	2007-09-04	8072283	2011-12-06
P24214 FAM	US	FILED	AGC low threshold signal level detection	12/992692	2008-05-15		
P24390 FAM	US	GRANTED	METHOD AND ARRANGEMENT IN A TELECOMMUNICATION SYSTEM	12/667829	2008-04-23	8553667	2013-10-08
P24503 FAM	US	FILED		12/674020	2008-08-22		
P24506 FAM	US	GRANTED	WCDMA AGC receiver SNR adjustment and signalling	12/991479	2008-05-15	8320865	2012-11-27
P24905 FAM	US	GRANTED	Handover optimization: reduction in handover HO interruption latency in wimax PCT title: REDUCTION IN HANDOVER INTERRUPTION IN WIMAX	12/105650	2008-04-18	8126462	2012-02-28
P25207 FAM	US	GRANTED	A combined mixer and balun design	12/920890	2008-03-25	8299838	2012-10-30
P25251 FAM	US	FILED		13/956136	2013-07-31		
P25251 FAM	US	FILED		12/234067	2008-09-19		
P25251 FAM	US	GRANTED		13/281291	2011-10-25	8527843	2013-09-03
P25323 FAM	US	GRANTED	Dual-band Voltage-Controlled Oscillator Arrangement	12/993153	2008-05-30	8344811	2013-01-01

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Ref No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
P25790 FAM	US	FILED	A RECONFIGURABLE FILTER APPARATUS	13/062743	2008-09-08		
P25805 FAM	US	GRANTED	Frequency Multiplier	12/997957	2008-06-16	8040166	2011-10-18
P26024 FAM	US	FILED	COORDINATED TRANSMISSION FOR SECONDARY USAGE	13/061969	2008-09-05		
P26267 FAM	US	FILED	An improved large area photo detector	13/128776	2008-11-12		
P26273 FAM	US	GRANTED		12/342439	2008-12-23	8068952	2011-11-29
P26424 FAM	US	FILED (ALL)	User and traffic data retention in lawful interception.	13/126027	2008-10-28		
P26470 FAM	US	FILED (ALL)	A METHOD AND AN ARRANGEMENT FOR DETERMINING AN ADMISSION CONTROL THRESHOLD	13/130445	2008-12-23		
P26554 FAM	US	FILED	Antenna Arrangement, With Improved Isolation between Adjacent Cell Areas	13/061218	2008-08-28		
P26595 FAM	US	FILED	A SYSTEM IN A NETWORK NODE FOR REGULATING TEMPERATURE OF ELECTRONIC EQUIPMENT	13/127188	2008-11-03		
P26719 FAM	US	GRANTED	METHOD AND APPARATUS RELATING TO SPECTRUM SENSING	12/993555	2009-06-04	8270906	2012-09-18
P26720 FAM	US	GRANTED	METHOD AND APPARATUS RELATING TO SPECTRUM SENSING	12/990880	2009-06-01	8509701	2013-08-13
P26960 FAM	US	FILED	REPORTING OF MULTIPLE IF/RAT FREQUENCY LAYER RESTRICTIONS	14/056512	2009-07-22		
P26960 FAM	US	GRANTED	REPORTING OF MULTIPLE IF/RAT FREQUENCY LAYER RESTRICTIONS	12/507376	2009-07-22	8588846	2013-11-19
P26963 FAM	US	FILED	METHODS AND ARRANGEMENT IN A COMMUNICATION SYSTEM	13/130854	2008-11-27		

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Ref No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
P27031 FAM	US	FILED	METHOD AND APPARATUS FOR ALLOCATING RESOURCES TO USER EQUIPMENTS IN A TELECOMMUNICATIONS SYSTEM	13/263255	2009-04-07		
P27157 FAM	US	FILED	METHODS AND ENTITY FOR CONVEYING DATA UNITS	13/140691	2008-12-19		
P27372 FAM	US	FILED (ALL)	A METHOD AND APPARATUS FOR DYNAMIC TRANSMITTER TO MULTI-CARRIER POWER AMPLIFIER MAPPING	13/142509	2008-12-29		
P27465 FAM	US	FILED (ALL)	MOBILITY SOLUTION SELECTION INDICATOR FOR VOICE OVER EPS	13/144947	2010-01-22		
P27631 FAM	US	FILED	A METHOD OF SENSING	13/129149	2009-03-23		
P27929 FAM	US	FILED	A transition from a chip to a waveguide port	13/319171	2009-05-08		
P27961 FAM	US	FILED	AN IMPROVED OSCILLATOR CIRCUIT	13/264573	2009-04-20		
P27974 FAM	US	FILED (ALL)	An Improved Antenna Arrangement	13/320802	2009-05-27		
P28123 FAM	US	FILED	UE behaviour for GANC discovery in roaming scenarios in CS-over-LTE-via-GAN solutions	13/144327	2010-01-12		
P28148 FAM	US	GRANTED	Automatic mapping between E-UTRAN and GERAN/UTRAN/GAN cells in CS-over-LTE-via-GAN solutions.	13/145232	2010-01-22	8412230	2013-04-02
P28242 FAM	US	FILED	METHOD AND ARRANGEMENT IN A WIRELESS COMMUNICATION SYSTEM	13/148433	2009-06-23		

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Ref No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
P28293 FAM	US	FILED	PROCESSING NODES AND METHODS OF ESTIMATING INTERFERENCE IN A RADIO TELECOMMUNICATION NETWORK	13/393704	2009-11-06		
P28571 FAM	US	FILED	AN IMPROVED TRANSFORMER	13/391863	2009-08-27		
P28640 FAM	US	FILED	A METHOD FOR ANTENNA CALIBRATION IN A WIDEBAND COMMUNICATION SYSTEM	13/378263	2009-06-17		
P29237 FAM	US	GRANTED	LOCATING A SOURCE OF WIRELESS TRANSMISSIONS FROM A LICENSED USER OF A LICENSED SPECTRAL RESOURCE	12/758744	2010-04-12	8526974	2013-09-03
P29565 FAM	US	FILED	METHOD AND APPARATUS RELATING TO SIGNAL CONTROL	13/509826	2009-12-30		
P29741 FAM	US	FILED	Methods and Arrangements for handling a setup of an S1 Application Protocol signalling connection	13/516504	2009-12-16		
P29836 FAM	US	FILED	METHOD AND ARRANGEMENT IN A WIRELESS COMMUNICATION SYSTEM	13/394219	2009-09-25		
P30207 FAM	US	FILED (ALL)	POWER LOOP CONTROL METHOD AND APPARATUS	12/639032	2009-12-16		
P30299 FAM	US	GRANTED		12/650201	2009-12-30	8401487	2013-03-19
P30338 FAM	US	FILED	A METHOD AND APPARATUS FOR GRANT-BASED UPLINK TRANSMISSION SCHEDULING	13/580840	2010-03-08		

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Ref No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
P30367 FAM	US	FILED	COMPONENT CARRIER SELECTION METHOD AND APPARATUS FOR RANDOM ACCESS ATTEMPTS IN A COMMUNICATIONS NETWORK	13/505160	2010-03-11		
P30627 FAM	US	FILED	Partial relaying of message based on interference in wireless network	13/580999	2010-03-23		
P30848 FAM	US	FILED	METHOD, APPARATUS AND SYSTEM FOR ANTENNA CALIBRATION	13/699105	2010-05-28		
P30888 FAM	US	FILED		12/972460	2010-12-18		
P31087 FAM	US	FILED	Improved Surge Protection	13/124747	2011-04-18		
P31147 FAM	US	FILED	ISR Title: METHODS AND APPARATUSES FOR POSITIONING A NODE IN A WIRELESS COMMUNICATIONS SYSTEM USING DIFFERENT RAN/RATS	13/575168	2010-09-24		
P31709 FAM	US	GRANTED	METHODS AND DEVICES FOR CARRIER ACTIVATION/ DEACTIVATION IN A MULTI-CARRIER COMMUNICATION SYSTEM	13/049186	2011-03-16	8483302	2013-07-09
P31759 FAM	US	FILED	DYNAMIC ADAPTATION OF DOWNLINK RLC PDU SIZE	13/075254	2011-03-30		
P31785 FAM	US	FILED	ANTENNA DEVICE AND METHOD IN A MIMO SYSTEM	13/824746	2010-09-23		
P32235 FAM	US	GRANTED	APPARATUS AND METHOD FOR CONTROLLING SELF- INTERFERENCE IN A CELLULAR COMMUNICATIONS SYSTEM	13/144784	2011-06-14	8594000	2013-11-26
P32267 FAM	US	FILED (ALL)		13/144766	2010-08-11		

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Ref No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
P32371 FAM	US	FILED	Frequency-Domain Subblock Equalization for Uplink LTE to Alleviate Inter-Symbol Interference	13/050210	2011-03-17		
P32454 FAM	US	FILED	METHODS AND ARRANGEMENTS FOR TRANSMIT MODE ADAPTATION	13/981700	2011-01-26		
P32484 FAM	US	FILED	METHOD AND DEVICE RELATING TO RELAY TECHNIQUE	14/005210	2011-03-14		
P32591 FAM	US	FILED	ADAPTIVE MULTI-CHANNEL TRANSMITTER LINEARIZATION SYSTEM USING A SHARED FEEDBACK RECEIVER	13/099518	2011-05-03		
P32789 FAM	US	FILED	METHODS PROVIDING AIDED SIGNAL SYNCHRONIZATION AND RELATED NETWORKS AND DEVICES	13/043027	2011-03-08		
P32971 FAM	US	FILED	Radio base station, radio network controller and methods therein	13/992348	2010-12-21		
P33057 FAM	US	FILED	METHODS AND DEVICES FOR PROVIDING GUARANTEED QUALITY OF SERVICE	14/000371	2011-02-18		
P33457 FAM	US	FILED	HYBRID CONGESTION CONTROL	14/004403	2011-03-10		
P33594 FAM	US	FILED	METHOD, APPARATUS AND SYSTEM FOR DETERMINING VOLTAGE STANDING WAVE RATIO IN DOWNLINK PERIOD OF RADIO COMMUNICATION	14/113959	2011-04-29		
P33637 FAM	US	FILED	COMPENSATING TIMING MEASUREMENTS DUE TO FREQUENCY DIFFERENCE	13/257605	2011-08-02		
P33844 FAM	US	FILED	Approved by ISA: METHOD, NODE AND SYSTEM FOR MANAGEMENT OF A MOBILE NETWORK	14/122645	2011-06-01		

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Ref No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
P33937 FAM	US	GRANTED		13/155527	2011-06-08	8428525	2013-04-23
P33963 FAM	US	GRANTED		13/155631	2011-06-08	8457642	2013-06-04
P34022 FAM	US	FILED	DEVICE AND METHOD FOR CONTROLLING INTERFERENCE	PCT/EP2012/060245	2012-05-31		
P34099 FAM	US	FILED	RLC DATA TRANSMISSION CONTROL BASED ON UE MEMORY CAPACITY	13/178048	2011-07-07		
P34100 FAM	US	FILED	DIGITAL DOWN CONVERSION AND DEMODULATION	13/271515	2011-10-12		
P34428 FAM	US	GRANTED	LINEARIZATION FOR A SINGLE POWER AMPLIFIER IN A MULTI- BAND TRANSMITTER	13/228926	2011-09-09	8576943	2013-11-05
P34737 FAM	US	FILED	USER EQUIPMENT, NETWORK NODE AND METHODS THEREIN	13/381606	2011-08-15		
P34737 FAM	US	FILED	USER EQUIPMENT, NETWORK NODE AND METHODS THEREIN	13/381606	2011-08-15		
P36245 FAM	US	FILED		13/765046	2013-02-12		
P36444 FAM	US	FILED	METHOD AND APPARATUS FOR PILOT POWER ALLOCATION IN A MULTI ANTENNA COMMUNICATION SYSTEM	13/816039	2013-01-22		
P38411 FAM	US	FILED		61/705679	2012-09-26		
P38411 FAM	US	FILED		14/035213	2013-09-24		
P38625 FAM	US	FILED	USI TITLE: COMMUNICATION PROTOCOL FOR SHORT DATA TRANSMISSIONS	13/722298	2012-12-20		
P38748 FAM	US	FILED		61/707366	2012-09-28		
P38748 FAM	US	FILED		14/039554	2013-09-27		

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Ref No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
P63070 FAM	US	GRANTED		10/451588	2001-12-05	7023394	2006-04-04
P63549 FAM	US	GRANTED		10/502312	2003-01-24	6999672	2006-02-14
P63967 FAM	US	GRANTED		10/597212	2005-01-07	7633457	2009-12-15
P64058 FAM	US	GRANTED		12/090175	2006-08-22	7924234	2011-04-12

Ref No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
1A	US	GRANTED	Method for scheduling distributed virtual resource blocks	12/349465	2009-01-06	7729377	2010-06-01
1A	US	GRANTED	Method for scheduling distributed virtual resource blocks	12/759645	2010-04-13	8472466	2013-06-25
1A	US	GRANTED	Method for scheduling distributed virtual resource blocks	12/868642	2010-08-25	8018966	2011-09-13
1A	US	FILED	Method for scheduling distributed virtual resource blocks	13/409057	2012-02-29	NOA	
2A	US	GRANTED	Method for performing random access procedures and terminal thereof	12/457653	2009-06-17	7933243	2011-04-26
2A	US	GRANTED	Method for performing random access procedures and terminal thereof	13/071280	2011-03-24	8467343	2013-06-18
2A	US	FILED	Method for performing random access procedures and terminal thereof	13/894948	2013-05-15		

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Ref No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
3A	US	GRANTED	Data transmitting and receiving method using phase shift based precoding and transceiver supporting the same	12/678200	2010-03-15	7970074	2011-06-28
3A	US	GRANTED	Data transmitting and receiving method using phase shift based precoding and transceiver supporting the same	12/724318	2010-03-15	7961808	2011-06-14
3A	US	GRANTED	Data transmitting and receiving method using phase shift based precoding and transceiver supporting the same	13/109962	2011-05-17	8208576	2012-06-26
3A	US	FILED	Data transmitting and receiving method using phase shift based precoding and transceiver supporting the same	13/109963	2011-05-17		
4A	US	GRANTED	Method of generating reference signal in wireless communication system	12/205530	2008-09-05	7848448	2010-12-07
4A	US	GRANTED	Method of generating reference signal in wireless communication system	12/913654	2010-10-27	8098760	2012-01-17
4A	US	FILED	Method of generating reference signal in wireless communication system	13/312809	2011-12-06		

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Ref No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
4A	US	FILED	Method of generating reference signal in wireless communication system	13/312804	2011-12-06		
5A	US	GRANTED	Method for transmitting status report of PDCP layer in mobile telecommunications system and receiver of mobile telecommunications	12/523090	2009-07-14	7936723	2011-05-03
5A	US	FILED	Method for transmitting status report of PDCP layer in mobile telecommunications system and receiver of mobile telecommunications	13/051803	2011-03-18	NOA	
6A	US	GRANTED	Method for transmitting uplink signals	12/209136	2008-09-11	8102833	2012-01-24
6A	US	FILED	Method for transmitting uplink signals	13/316315	2011-12-09		
7A	US	FILED	Method for transmitting and receiving control information through PDCCH	13/590048	2012-08-20		
7A	US	GRANTED	Method for transmitting and receiving control information through PDCCH	12/252270	2008-10-15	7873004	2011-01-18
7A	US	GRANTED	Method for transmitting and receiving control information through PDCCH	12/963570	2010-12-08	8019332	2011-09-13
7A	US	GRANTED	Method for transmitting and receiving control information through PDCCH	12/963588	2010-12-08	8014769	2011-09-06

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Ref No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
7A	US	GRANTED	Method for transmitting and receiving control information through PDCCH	13/185343	2011-07-18	8213377	2012-07-03
7A	US	GRANTED	Method for transmitting and receiving control information through PDCCH	13/185362	2011-07-18	8270363	2012-09-18
8A	US	GRANTED	Method of performing uplink synchronization in random access procedure	12/392654	2009-02-25	7843895	2010-11-30
8A	US	FILED	Method of performing uplink synchronization in random access procedure	12/909780	2010-10-21		
9A	US	GRANTED	Method for transmitting downlink control information	12/363522	2009-01-30	7835337	2010-11-16
10A	US	GRANTED	Method for effectively transmitting control signal in wireless communication system	12/404873	2009-03-16	7774686	2010-08-10
10A	US	GRANTED	Method for effectively transmitting control signal in wireless communication system	12/836403	2010-07-14	8108757	2012-01-31
10A	US	GRANTED	Method for effectively transmitting control signal in wireless communication system	13/563472	2012-07-31	8423858	2013-04-16
10A	US	GRANTED	Method for effectively transmitting control signal in wireless communication system	13/345532	2012-01-06	8250443	2012-08-21

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Ref No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
10A	US	FILED	Method for effectively transmitting control signal in wireless communication system	13/802066	2013-03-13	NOA	
11A	US	GRANTED	Side button switch in mobile communication terminal and vibration-preventing device thereof	10/341356	2003-01-14	7383066	2008-06-03
12A	US	GRANTED	Apparatus and methods of selecting special characters in a mobile communication terminal	10/036377	2002-01-07	7423647	2008-09-09
12A	US	GRANTED	Apparatus and methods of selecting special characters in a mobile communication terminal	11/147350	2005-06-08	7453462	2008-11-18
12A	US	GRANTED	Apparatus and methods of selecting special characters in a mobile communication terminal	12/247567	2008-10-08	7714868	2010-05-11
13A	US	GRANTED	Portable terminal	11/828978	2007-07-26	7525535	2009-04-28
14A	US	GRANTED	File downloading apparatus and method for mobile communication system	10/465724	2003-06-20	7289817	2007-10-30
14A	US	GRANTED	File downloading apparatus and method for mobile communication system	11/896419	2007-08-31	7634260	2009-12-15

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Ref No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
15A	US	GRANTED	Method of displaying object and terminal capable of implementing the same	12/648248	2009-12-28	8174506	2012-05-08
15A	US	GRANTED	Method of displaying object and terminal capable of implementing the same	11/729807	2007-03-30	7663610	2010-02-16
16A	US	GRANTED	Method for transmitting VoIP packet	12/673262	2010-02-12	8391311	2013-03-05
16A	US	GRANTED	Method for transmitting VoIP packet	12/705215	2010-02-12	8396070	2013-03-12
1B	US	GRANTED	Mobile terminal having retractable camera	10/607551	2003-06-27	7418280	2008-08-26
2B	US	GRANTED	Data transmission control method for GPRS	10/438032	2003-05-15	7443795	2008-10-28
3B	US	GRANTED	Signal connecting apparatus for a folder type mobile terminal	11/016308	2004-12-17	7229289	2007-06-12
4B	US	GRANTED	Method for operating data communication service in mobile communication system	10/737212	2003-12-15	7349694	2008-03-25
5B	US	GRANTED	System, apparatus, and method for enhancing mobile communication terminal push to talk service	11/325934	2005-12-30	7684814	2010-03-23

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Ref No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
7B	US	GRANTED	Card ejecting mechanism and mobile communication terminal having the same	11/445825	2006-06-02	7494353	2009-02-24
8B	US	GRANTED	Mobile communication terminal having opening mechanism	11/469063	2006-08-31	7787914	2010-08-31
9B	US	GRANTED	Method for transmitting emergency call of mobile phone	09/671115	2000-09-28	7113764	2006-09-26
10B	US	GRANTED	Method of controlling timing for uplink synchronous transmission scheme	10/078674	2002-02-21	7190691	2007-03-13
11B	US	GRANTED	Apparatus and method for estimating position of mobile communication terminal	10/125531	2002-04-19	7057557	2006-06-06
12B	US	GRANTED	Data receiving and transmitting method with coding type determination	10/192895	2002-07-11	7366119	2008-04-29
13B	US	GRANTED	Apparatus and method for increasing channel capacity of a mobile communication system	10/630721	2003-07-31	7369486	2008-05-06
14B	US	GRANTED	Method for analyzing data transmission throughput in a wireless LAN	10/775240	2004-02-11	7321579	2008-01-22
15B	US	GRANTED	Method for implementing system information broadcasting function in asynchronous mobile communication system	09/974845	2001-10-12	7116648	2006-10-03

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Ref No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
16B	US	GRANTED	Mobile communication terminal and method for displaying an image	11/735377	2007-04-13	7881523	2011-02-01

Ref Category	Title	App No.	App Date	Patent No.	Patent Date	Country
Wireless Communication	Reduction method of successive handoffs between base stations in code division multiple access (CDMA) mobile communication system	09/078578	1998/05/14	6301234	2001/10/29	U.S.A.
Wireless Communication	Method of canceling interference components included in received signals of base station in mobile communication system	09/273765	1999/03/22	6574204	2003/06/03	U.S.A.
Wireless Communication	Radio packet data terminal and method of determining internet interworking protocol address	09/224053	1998/12/31	6404754	2002/06/11	U.S.A.
Wireless Communication	Method for controlling power for forward common channel	09/671208	2000/09/28	6615053	2003/09/02	U.S.A.
UI	Mobile terminal and multimedia contents service providing system and method for call connection waiting using the same	11/459223	2006/07/21	7738645	2010/06/15	U.S.A.
UI	Method and apparatus for reproducing multimedia files	11/538424	2006/10/03	8086962	2011/12/27	U.S.A.
Wireless Communication	Fine granularity scalability encoding/decoding apparatus and method	10/659386	2003/09/11	7003034	2006/02/21	U.S.A.
UI	Apparatus and method for providing pause function of broadcasting streaming in terminal					
		11/322280	2005/12/29	8046483	2011/10/25	U.S.A.
UI	Method of applying for communication service and communication terminal thereof					
		11/364410	2006/03/01	7720494	2010/05/18	U.S.A.
UI	Character input apparatus and method for mobile communications terminal	11/441139	2006/05/26	7705752	2010/04/27	U.S.A.
UI	Method for downloading a	11/864752	2007/09/28	8160550	2012/04/17	U.S.A.

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Ref Category	Title	App No.	App Date	Patent No.	Patent Date	Country
	message in a mobile terminal, method for forwarding message, and mobile terminal for performing the same					
UI	MOBILE TERMINAL AND METHOD OF DISPLAYING MENU ICON THEREOF	12/176314	2008/07/18	NOA		U.S.A.
UI	Mobile communication terminal for controlling display information	12/111004	2008/04/28	8111255	2012/02/07	U.S.A.
UI	Mobile terminal providing web page-merge function and operating method of the mobile terminal	12/506486	2009/07/20	8532712	2013/09/10	U.S.A.
UI	Adjusting the display orientation of an image on a mobile terminal	12/423769	2009/04/14	8564618	2013/10/22	U.S.A.
UI	Method for automatically managing information using hyperlink features of a mobile terminal	10/902801	2004/08/02	7409394	2008/08/05	U.S.A.
UI	Method for managing menu function in mobile station	09/737283	2000/12/15	7137073	2006/11/14	U.S.A.
		11/682957	2007/03/07	8127250	2012/02/28	U.S.A.
		11/549629	2006/10/13	7861184	2010/12/28	U.S.A.
		13/353270	2012/01/18			U.S.A.

Ref No.	Country	Status	Title	App No.	App Date	Patent No.	Patent Date
P06186 FAM	US	GRANTED	Method of and Apparatus for Interference Rejection Combining in Multi-Antenna Digital Cellular Communications Systems	08/284775	1994-08-02	5680419	1997-10-21
P08499 FAM	US	GRANTED	A method for demodulating information in a communication system that supports multiple modulation schemes	08/921374	1997-08-29	6125148	2000-09-26
P09953 FAM	US	GRANTED	Method and Apparatus for Interference	09/165647	1998-10-02	6363104	2002-03-26

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			Cancellation in a Rake Receiver				
P09953 FAM	US	GRANTED	Method and Apparatus for Interference Cancellation in a Rake Receiver	09/992094	2001-11-05	6842479	2005-01-11
PI2026 FAM	US	GRANTED	Apparatus and method of controlling a voice controlled operation	09/588454	2000-06-06	6532447	2003-03-11
P17754 FAM	US	GRANTED	Method and Apparatus for Finger Placement in a Rake Receiver	10/653679	2003-09-02	7469024	2008-12-23

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