

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT2745655

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
P-WAVE HOLDINGS, LLC	02/20/2014
RECEIVING PARTY DATA	
Name:	POWERWAVE TECHNOLOGIES S.A.R.L.
Street Address:	296-298, ROUTE DE LONGWY
City:	LUXEMBOURG CITY
State/Country:	LUXEMBOURG
Postal Code:	L-1940
PROPERTY NUMBERS Total: 165	
Property Type	Number
Patent Number:	7288988
Patent Number:	7769103
Patent Number:	7864874
Patent Number:	6396350
Patent Number:	6522197
Patent Number:	7742535
Patent Number:	6856215
Patent Number:	7049907
Patent Number:	6897724
Patent Number:	7231191
Patent Number:	6818477
Patent Number:	6937094
Patent Number:	6794954
Application Number:	60668363
Application Number:	60670907

Application Number:	11512970
Application Number:	60713698
Application Number:	11518112
Application Number:	60715889
Application Number:	60718262
Application Number:	60718099
Application Number:	60181345
Application Number:	60185311
Application Number:	60199372
Application Number:	60752441
Application Number:	60031840
Application Number:	60325627
Application Number:	60333643
Application Number:	60428607
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Patent Number:	5760646
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Application Number:	10355992
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Application Number:	61004525
Application Number:	61008645
Application Number:	12340383
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Application Number:	61026675
Application Number:	61063050
Application Number:	13961582
Application Number:	61062658
Application Number:	61063215
Application Number:	61031322

	12392007
Application Number:	12624305
Application Number:	61044352
Application Number:	61050127
Application Number:	61128366
Application Number:	12471244
Application Number:	61128710
Application Number:	61133147
Application Number:	61195891
Application Number:	61105773

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	PWH-SARL_ASSIGN3
NAME OF SUBMITTER:	CHRIS A. CASEIRO
Signature:	/Chris A. Caseiro/
Date:	02/27/2014

Total Attachments: 22

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ASSIGNMENT OF PATENTS

This Assignment of Patents (this "Assignment") is made as of February 20, 2014, by and between P-WAVE HOLDINGS, LLC, a Delaware limited liability company ("Assignor"), and POWERWAVE TECHNOLOGIES S.a.r.l., a private limited liability company (*société à responsabilité limitée*) existing and organized under the laws of the Grand Duchy of Luxembourg, having its registered office at 296-298, route de Longwy, L-1940 Luxembourg ("Assignee").

WHEREAS Assignor is the owner of all right, title and interest in and to the Patents including those listed on the attached Schedule A, and one or more inventions described in the Patent applications listed on the attached Schedule A (collectively, the "Patents and Patent Applications");

WHEREAS Assignor has agreed to sell, transfer, assign and convey to Assignee, and Assignee has agreed to purchase and acquire from Assignor, the Patents and Patent Applications.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which hereby are acknowledged:

1. Assignor hereby sells, assigns and transfers to Assignee its entire right, title and interest in and to the Patent and Patent Applications, including but not limited to worldwide patent rights, any and all registrations and applications relating thereto, and any renewals, reissues, extensions, continuations and divisionals thereof, and in and to all income, royalties, damages, claims and payments now or hereafter due or payable with respect thereto, the underlying inventions claimed therein, and all priority rights, convention rights and other benefits accruing or to accrue with respect to the filing of applications for patents or the issuance of patents in all countries in respect of the Patent and Patent Applications, and in and to all causes of action, either in law or in equity for past, present or future infringement, and in and to all rights corresponding to the foregoing throughout the world.

2. Assignor agrees to execute all documents and assist in all proceedings (at the sole cost and expense of Assignee) to perfect, register or record the rights of the Assignee to the Patent and Patent Applications as Assignee may reasonably deem necessary or appropriate. If Assignor does not, within fifteen (15) days of presentment, return the requested executed documents, then Assignee is hereby granted a limited power of attorney to execute all such documents on behalf of Assignor. This power of attorney is coupled with an interest and is irrevocable.

3. Assignor hereby authorizes and requests the Director of the United States Patent and Trademark Office, and the corresponding entities or agencies in any applicable countries outside the United States, to record this Assignment and issue such letters patent as shall be granted upon the Patent and Patent Applications, or applications based thereon, to Assignee, its successors and assigns.

4. This Assignment shall be governed by, construed and enforced in accordance with the laws of the Grand Duchy of Luxembourg.

5. This Assignment may be executed (including by facsimile or other electronic transmission (e.g., portable data format)) with counterpart signature pages or in multiple counterparts, all of which shall be considered one and the same agreement.

IN WITNESS WHEREOF, Assignor and Assignee have caused this Assignment to be executed by its duly authorized representatives on the day and year first above written.

ASSIGNOR:

POWERWAVE HOLDINGS, LLC

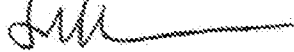


Name: Steve Eisner

Title: Vice President

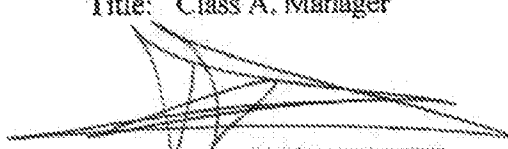
ASSIGNEE:

POWERWAVE
TECHNOLOGIES S.A.R.L.



Name: Steve Eisner

Title: Class A. Manager



Name: Jean-Philippe Jarry

Title: Class B. Manager

5141859

SCHEDULE A

NO. 03266-A
PATENTS AND PATENT APPLICATIONS

Title	Country	Application Serial Number	Filing Date	Patent Number
Method and Apparatus for Increasing the Bandwidth and Reducing the Size of the DC Feed for Wideband RF Amplifiers Using Selective Placement of High Dielectric Constant Material	US			
Method for Supporting a Wire	US	18/082,655	5/20/2024	6,261,180
Electronic Apparatus with Wire Support Structure	US	18/082,655	5/20/2024	6,261,175
Variable Limited Bandwidth Assembly Using Energy Prohibit	US	18/082,655	5/20/2024	6,261,118
System and Method for Peak Power Reduction in Spread Spectrum Communications Systems	US	18/082,655	5/20/2024	6,261,213
System and Method for Peak Power Reduction in Spread Spectrum Communications Systems	Canada	08/746,187	12/17/2000	6,885,802
System and Method for Peak Power Reduction in Spread Spectrum Communications Systems	China	1406767	2/28/2001	1406767
System and Method for Peak Power Reduction in Spread Spectrum Communications Systems	US	1808263.1	1/12/2021	10,616,845.1
System and Method for Peak Power Reduction in Spread Spectrum Communications Systems	US	18/082,658	7/5/2022	7,065,657
System and Method for Peak Power Reduction in Spread Spectrum Communications Systems	EPD	1812126.9	8/5/2003	
System and Method for Peak Power Reduction in Spread Spectrum Communications Systems	Republic of Korea	10/2002-791A002	10/28/2002	466027
System and Method for Peak Power Reduction in Spread Spectrum Communications Systems	PCT	PCT/US2002/008717		
RF Power Amplifier Assembly Encapsulating Multi-Layer RF Blocking Filter	US	08/881,153	8/2/2000	6,476,324
Electronic Equipment with Carrier Isolation	US	08/880,285	10/26/2000	6,442,896
RF Amplifier Assembly with Reliable RF Power Output	US	08/789,817	11/18/2000	6,809,285
Heat Sink Assembly	US	08/880,277	9/8/2000	6,496,948
Method for Assembling an Electronic Assembly Incorporating a Heat Sink	US	08/916,854	8/6/2001	6,350,181
Combination Fixed Forward Amplifier with Amplifier Stage Failure Detection Using Pilot Tones	US	10/023,845	11/17/2001	6,877,817
Combination Fixed Forward Amplifier with Amplifier Stage Failure Detection Using Pilot Tones	US	10/023,845	11/17/2001	6,866,078
RF Electronics Assembly with Shielded Interconnects	US	08/718,809	11/22/2000	6,813,537
System and Method for Peak Power Reduction in Multiple Carrier Communications Systems	US	06/884,302	6/28/2003	6,845,308
System and Method for Peak Power Reduction in Multiple Carrier Communications Systems	Canada	2463262	8/11/2001	2463262
System and Method for Peak Power Reduction in Multiple Carrier Communications Systems	China	1014876.9	6/28/2003	20,000,814,876.9
System and Method for Peak Power Reduction in Multiple Carrier Communications Systems	US	10/023,240	1/21/2002	7,184,095
System and Method for Peak Power Reduction in Multiple Carrier Communications Systems	PCT	10-2780-7017607	12/10/2000	681188
System and Method for Post-Filtering Peak Power Reduction in Communications Systems	US	PCT/US2001/018495		
System and Method for Post-Filtering Peak Power Reduction in Communications Systems	Canada	10/102,895	5/20/2002	7,170,051
System and Method for Post-Filtering Peak Power Reduction in Communications Systems	China	2460178	6/3/2002	2460178
System and Method for Post-Filtering Peak Power Reduction in Communications Systems	EPD	02813477.4	6/7/2002	2,813,477.4
System and Method for Post-Filtering Peak Power Reduction in Communications Systems	Republic of Korea	2744629.5	6/28/2002	
System and Method for Post-Filtering Peak Power Reduction in Communications Systems	PCT	10-2704-708068	6/28/2002	684896
System and Method for Post-Filtering Peak Power Reduction in Communications Systems	US	PCT/US2002/020462	6/28/2002	
System and Method for Post-Filtering Peak Power Reduction in Communications Systems	Canada	10/127,164	4/11/2002	7,095,788
System and Method for Post-Filtering Peak Power Reduction in Communications Systems	China	2462548	7/3/2002	2462548
System and Method for Post-Filtering Peak Power Reduction in Communications Systems	China	288492.7	7/16/2002	2,200,849,270.7
System and Method for Post-Filtering Peak Power Reduction in Communications Systems	EPD	2748266	7/16/2002	
System and Method for Post-Filtering Peak Power Reduction in Communications Systems	Republic of Korea	10-2004-7080685	7/16/2002	647085
System and Method for Post-Filtering Peak Power Reduction in Communications Systems	PCT	PCT/US2002/020461	7/16/2002	
Method of Assembling a Circuit Board Apparatus with the Connections	US	08/884,681	11/17/2000	6,813,537
Method of Assembling a Circuit Board Apparatus with the Connections	US	08/884,681	11/17/2000	6,813,537
System and Method for Eliminating Signal Zero Crossing in Single and Multiple Channel Communications Systems	US	10/891,188	3/28/2003	6,831,240
System and Method for Eliminating Signal Zero Crossing in Single and Multiple Channel Communications Systems	Canada	2479688	8/15/2003	2479688
System and Method for Eliminating Signal Zero Crossing in Single and Multiple Channel Communications Systems	China	10821059.2	3/5/2003	20,008,110,59.2
System and Method for Eliminating Signal Zero Crossing in Single and Multiple Channel Communications Systems	Germany	87450.11.9	3/1/2003	5,055,740.6
System and Method for Eliminating Signal Zero Crossing in Single and Multiple Channel Communications Systems	EPD	2745111.9	6/18/2003	2745111
System and Method for Eliminating Signal Zero Crossing in Single and Multiple Channel Communications Systems	Finland	2745111.9	6/18/2003	2745111
System and Method for Eliminating Signal Zero Crossing in Single and Multiple Channel Communications Systems	France	2745111.9	6/18/2003	2745111
System and Method for Eliminating Signal Zero Crossing in Single and Multiple Channel Communications Systems	United Kingdom	2745111.9	6/18/2003	2745111
System and Method for Eliminating Signal Zero Crossing in Single and Multiple Channel Communications Systems	Republic of Korea	10-2003-7080646	3/5/2003	717798
System and Method for Eliminating Signal Zero Crossing in Single and Multiple Channel Communications Systems	PCT	PCT/US2003/020460		
System and Method for Eliminating Signal Zero Crossing in Single and Multiple Channel Communications Systems	Sweden	3740111.9	6/18/2003	3740111
Circuit Board Assembly Encapsulating Inter-Digit Wire	China	1000-84201508.X	7/29/2004	
RF Power Amplifier Employing Bias Circuit Topologies for Minimization of RF Amplifier Memory Effects	US	10/410,457	8/9/2003	7,084,603
RF Power Amplifier Employing Bias Circuit Topologies for Minimization of RF Amplifier Memory Effects	Canada	2482107	4/22/2003	2482107
RF Power Amplifier Employing Bias Circuit Topologies for Minimization of RF Amplifier Memory Effects	Germany	3728776.1	4/22/2003	6,723,824.3
RF Power Amplifier Employing Bias Circuit Topologies for Minimization of RF Amplifier Memory Effects	US	11/785,826	11/18/2003	7,086,144
RF Power Amplifier Employing Bias Circuit Topologies for Minimization of RF Amplifier Memory Effects	EPD	3728376.1	4/22/2003	3728376
RF Power Amplifier Employing Bias Circuit Topologies for Minimization of RF Amplifier Memory Effects	Finland	3728376.1	4/22/2003	3728376
RF Power Amplifier Employing Bias Circuit Topologies for Minimization of RF Amplifier Memory Effects	France	3728376.1	4/22/2003	3728376
RF Power Amplifier Employing Bias Circuit Topologies for Minimization of RF Amplifier Memory Effects	PCT	PCT/US2003/020460		
RF Power Amplifier Employing Bias Circuit Topologies for Minimization of RF Amplifier Memory Effects	US	10/410,457	8/9/2003	7,084,603

SCHEDULE A

RF Power Amplifier Employing Bias Circuit Topologies for Minimization of RF Amplifier Memory Effects	US	809795864	8/16/2023	
RF Power Amplifier Employing Bias Circuit Topologies for Minimization of RF Amplifier Memory Effects	Sweden			
RF Power Amplifier Employing Bias Circuit Topologies for Minimization of RF Amplifier Memory Effects	United Kingdom	3736876.1	4/22/2025	3736876.1
Feed Forward RF Power Amplifier with High Efficiency Main Amplifier and Highly Linear Error Amplifier	US	107808155	3/13/2024	107808155
Feed Forward RF Power Amplifier with High Efficiency Main Amplifier and Highly Linear Error Amplifier	Canada	1476246	2/12/2025	1476246
Feed Forward RF Power Amplifier with High Efficiency Main Amplifier and Highly Linear Error Amplifier	China	3888503.5	2/12/2025	3888503.5
Feed Forward RF Power Amplifier with High Efficiency Main Amplifier and Highly Linear Error Amplifier	PCT	PCT/JP2023/003048	2/12/2024	
Bi-Phase Feed Forward RF Power Amplifier Having Biased Main and Error Amplifier	UK	602317496	2/18/2025	
Small Cells Non-Delayed Multiple Antennas Architecture	FR	PCT/FR2023/2055860	30/4/2023	
Small Cells Non-Delayed Multiple Antennas Architecture	US	917841211	3/9/2024	
Small Cells Non-Delayed Multiple Antennas Architecture	US	117801237	3/9/2024	
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Small Cells Non-Delayed Multiple Antennas Architecture	US	117801237	3/9/2024	
Location Processing in Small Cells Implementing Multiple Air Interfaces	US	117801237	3/9/2024	
Feed Forward Amplifier System Using Parallel and Series for Distortion Control	US	107755087	11/11/2023	5,998,816
Feed Forward Amplifier System Using Parallel and Series for Distortion Control	China	2024000102115.7	12/11/2024	2024000102115.7
Feed Forward Amplifier System Using Parallel and Series for Distortion Control	Germany	3790471.7	12/11/2024	3790471.7
Feed Forward Amplifier System Using Parallel and Series for Distortion Control	EPD	3790471.7	12/11/2024	1573209
Feed Forward Amplifier System Using Parallel and Series for Distortion Control	Finland	3790471.7	11/11/2023	1573209
Feed Forward Amplifier System Using Parallel and Series for Distortion Control	France	3790471.7	12/11/2024	1573209
Feed Forward Amplifier System Using Parallel and Series for Distortion Control	PCT	PCT/JP2023/003048	2/12/2024	
Feed Forward Amplifier System Using Parallel and Series for Distortion Control	Sweden	3790471.7	12/11/2024	1573209
Feed Forward Amplifier System Employing Self-Generating Alignment Lists and Adaptive Controller	US	107755087	11/11/2023	5,998,816
Feed Forward Amplifier System Employing Self-Generating Alignment Lists and Adaptive Controller	China	2024000102115.7	12/11/2024	2024000102115.7
Feed Forward Amplifier System Employing Self-Generating Alignment Lists and Adaptive Controller	Germany	3790471.7	12/11/2024	1573209
Feed Forward Amplifier System Employing Self-Generating Alignment Lists and Adaptive Controller	EPD	3790471.7	12/11/2024	1573209
Feed Forward Amplifier System Employing Self-Generating Alignment Lists and Adaptive Controller	Finland	3790471.7	11/11/2023	1573209
Feed Forward Amplifier System Employing Self-Generating Alignment Lists and Adaptive Controller	France	3790471.7	12/11/2024	1573209
Feed Forward Amplifier System Employing Self-Generating Alignment Lists and Adaptive Controller	Republic of Korea	10-2023-0018570	10/12/2023	10-2023-0018570
Feed Forward Amplifier System Employing Self-Generating Alignment Lists and Adaptive Controller	Republic of Korea	10-2023-0018570	10/12/2023	10-2023-0018570
Feed Forward Amplifier System Employing Self-Generating Alignment Lists and Adaptive Controller	PCT	PCT/US2024/003800	1/12/2024	
Feed Forward Amplifier System Employing Self-Generating Alignment Lists and Adaptive Controller	US	107755087	11/11/2023	5,998,816
Feed Forward Amplifier System Employing Self-Generating Alignment Lists and Adaptive Controller	Sweden	3790471.7	12/11/2024	1573209
Enhanced Efficiency Feed Forward Power Amplifier Utilizing Reduced Cancellation Bandwidth and Small Error Amplifier	US	107755087	11/11/2023	5,998,816
Enhanced Efficiency Feed Forward Power Amplifier Utilizing Reduced Cancellation Bandwidth and Small Error Amplifier	Canada	1476246	2/12/2025	1476246
Enhanced Efficiency Feed Forward Power Amplifier Utilizing Reduced Cancellation Bandwidth and Small Error Amplifier	China	3888503.5	2/12/2025	3888503.5
Enhanced Efficiency Feed Forward Power Amplifier Utilizing Reduced Cancellation Bandwidth and Small Error Amplifier	Czech Republic	3790471.7	12/11/2024	1573209
Enhanced Efficiency Feed Forward Power Amplifier Utilizing Reduced Cancellation Bandwidth and Small Error Amplifier	Germany	3790471.7	12/11/2024	1573209
Enhanced Efficiency Feed Forward Power Amplifier Utilizing Reduced Cancellation Bandwidth and Small Error Amplifier	EPD	3790471.7	12/11/2024	1573209
Enhanced Efficiency Feed Forward Power Amplifier Utilizing Reduced Cancellation Bandwidth and Small Error Amplifier	Finland	3790471.7	11/11/2023	1573209
Enhanced Efficiency Feed Forward Power Amplifier Utilizing Reduced Cancellation Bandwidth and Small Error Amplifier	France	3790471.7	12/11/2024	1573209
Enhanced Efficiency Feed Forward Power Amplifier Utilizing Reduced Cancellation Bandwidth and Small Error Amplifier	United Kingdom	3736876.1	4/22/2025	3736876.1
Enhanced Efficiency Feed Forward Power Amplifier Utilizing Reduced Cancellation Bandwidth and Small Error Amplifier	Italy	3736876.1	4/22/2025	3736876.1
Enhanced Efficiency Feed Forward Power Amplifier Utilizing Reduced Cancellation Bandwidth and Small Error Amplifier	Republic of Korea	10-2023-0018570	10/12/2023	10-2023-0018570
Enhanced Efficiency Feed Forward Power Amplifier Utilizing Reduced Cancellation Bandwidth and Small Error Amplifier	Netherlands	3790471.7	12/11/2024	1573209
Enhanced Efficiency Feed Forward Power Amplifier Utilizing Reduced Cancellation Bandwidth and Small Error Amplifier	PCT	PCT/US2024/003800	1/12/2024	
Method for Aligning Feed Forward Loops	US	107755087	11/11/2023	5,998,816
Method for Aligning Feed Forward Loops	China	2024000102115.7	12/11/2024	2024000102115.7
Method for Aligning Feed Forward Loops	Germany	3790471.7	12/11/2024	1573209
Method for Aligning Feed Forward Loops	EPD	3790471.7	12/11/2024	1573209
Method for Aligning Feed Forward Loops	Finland	3790471.7	11/11/2023	1573209
Method for Aligning Feed Forward Loops	France	3790471.7	12/11/2024	1573209
Method for Aligning Feed Forward Loops	United Kingdom	3736876.1	4/22/2025	

EXHIBIT A
PATENTS AND PATENT APPLICATIONS

Feed Forward Amplifier Employing Positive Feedback Pilot Generation	US	10,818,885	5/5/2024	7,115,089
Feed Forward Amplifier Employing Positive Feedback Pilot Generation	US	10,465,444	5/7/2023	
System and method for control of loop alignment in adaptive feed forward amplifiers	US	11,018,216	12/11/2024	7,157,967
System and method for control of loop alignment in adaptive feed forward amplifiers	Canada	29,693,038	5/14/2025	5,666,558
System and method for control of loop alignment in adaptive feed forward amplifiers	China	202080078301.6	5/15/2023	2,100,630,007,689.6
System and method for control of loop alignment in adaptive feed forward amplifiers	EPD	5715405.1	2/14/2025	57,56910
System and method for control of loop alignment in adaptive feed forward amplifiers	India	3765746N/2636	2/14/2025	250486
System and method for control of loop alignment in adaptive feed forward amplifiers	Republic of Korea	10-2026-7521125		603948
System and method for control of loop alignment in adaptive feed forward amplifiers	PCT	PCT/US2026/0204837	2/14/2026	
Circuit Board Assembly Employing Solder Vent Hole	US	11,848,478	5/20/2024	6,154,897
Circuit Board Assembly Employing Solder Vent Hole	China	100480013988.1	5/20/2024	2,100,480,113,988.1
Circuit Board Assembly Employing Solder Vent Hole	Republic of Korea	10-2025-7022460	5/20/2024	784767
Circuit Board Assembly Employing Solder Vent Hole	PCT	PCT/US2025/0204607	5/20/2024	
Digital Predistortion System and Method for Correcting Memory Effects within an RF Power Amplifier	US	10,905,474	6/30/2023	7,148,357
Digital Predistortion System and Method for Correcting Memory Effects within an RF Power Amplifier	China	100480018834.7	7/1/2024	2,100,480,138,34.7
Digital Predistortion System and Method for Correcting Memory Effects within an RF Power Amplifier	EPD	4,765,514.6	7/1/2024	
Digital Predistortion System and Method for Correcting Memory Effects within an RF Power Amplifier	Republic of Korea	10-2026-7090348	7/1/2026	10-0297743
Digital Predistortion System and Method for Correcting Memory Effects within an RF Power Amplifier	PCT	PCT/US2024/025310	7/1/2024	
Digital Predistortion System and Method for Correcting Memory Effects within an RF Power Amplifier	US	80,585,246	7/2/2025	
Delay Mismatched Feed Forward Amplifier System Using Penalties and Priors for Control	US	10,793,498	5/11/2023	7,066,407
Delay Mismatched Feed Forward Amplifier System Using Penalties and Priors for Control	China	20208001662.10.0	7/11/2023	2,100,800,166,210.0
Delay Mismatched Feed Forward Amplifier System Using Penalties and Priors for Control	Germany	7790474.5	11/11/2023	60393146.4
Delay Mismatched Feed Forward Amplifier System Using Penalties and Priors for Control	US	11,798,580	11/26/2025	7,116,418
Delay Mismatched Feed Forward Amplifier System Using Penalties and Priors for Control	France	7986474.5	11/11/2023	1579407
Delay Mismatched Feed Forward Amplifier System Using Penalties and Priors for Control	France	3790474.5	12/11/2023	1279807
Delay Mismatched Feed Forward Amplifier System Using Penalties and Priors for Control	PCT	PCT/US2023/020464	12/11/2023	
Delay Mismatched Feed Forward Amplifier System Using Penalties and Priors for Control	US	80,434,896	12/18/2023	
Delay Mismatched Feed Forward Amplifier System Using Penalties and Priors for Control	US	80,563,351	3/19/2023	
Delay Mismatched Feed Forward Amplifier System Using Penalties and Priors for Control	Sweden	3790474.5	12/11/2023	1579807
Wideband Enhanced Digital Injection Predistortion for High Efficiency Transmitters	US	11,826,806	1/15/2025	7,696,150
Method for Aligning Feed Forward Paths	Canada	29,693,037	5/14/2025	
Wideband Enhanced Digital Injection Predistortion for High Efficiency Transmitters	China	10968000699	1/16/2025	2,100,800,006,999.1
Wideband Enhanced Digital Injection Predistortion System and Method	Germany	3772448.7	1/16/2025	6,126,028,431
Wideband Enhanced Digital Injection Predistortion System and Method	EPD	3772448.7	1/16/2025	17,587.11
Wideband Enhanced Digital Injection Predistortion System and Method	EPD	12179683.3	7/9/2021	
Wideband Enhanced Digital Injection Predistortion System and Method	France	3772448.7	1/16/2025	17,586.11
Wideband Enhanced Digital Injection Predistortion System and Method	France	3772448.7	1/16/2025	17,586.11
Wideband Enhanced Digital Injection Predistortion System and Method	United Kingdom	17,586.11	1/16/2025	17,586.11
Wideband Enhanced Digital Injection Predistortion System and Method	Republic of Korea	10-2026-7024759	6/21/2026	780105
Wideband Enhanced Digital Injection Predistortion System and Method	PCT	PCT/US2025/020440	11-02-2025	
Wideband Enhanced Digital Injection Predistortion System and Method	US	80,557,817	1/23/2024	
Wideband Enhanced Digital Injection Predistortion System and Method	EPD	3772448.7	1/16/2025	17,586.11
Digital Predistortion System and Method for Linearizing an RF Power Amplifier with Nonlinear Gain Characteristics and Memory Effect	US	11,795,447	1/28/2025	7,077,241
Digital Predistortion System and Method for Linearizing an RF Power Amplifier with Nonlinear Gain Characteristics and Memory Effect	Canada	29,693,038	2/14/2025	15,55888
Digital Predistortion System and Method for Linearizing an RF Power Amplifier with Nonlinear Gain Characteristics and Memory Effect	China	20208000654.5	1/17/2025	2,100,800,006,54.5
Digital Predistortion System and Method for Linearizing an RF Power Amplifier with Nonlinear Gain Characteristics and Memory Effect	EPD	5,725,756.2	2/24/2025	
Digital predistortion system and method for linearizing an RF power amplifier with nonlinear gain characteristics and memory ef	India	3846746N/2025	2/24/2025	
Digital Predistortion System and Method for Linearizing an RF Power Amplifier with Nonlinear Gain Characteristics and Memory Effect	Republic of Korea	10-2026-750425	5/24/2026	864196
Digital Predistortion System and Method for Linearizing an RF Power Amplifier with Nonlinear Gain Characteristics and Memory Effect	PCT	PCT/US2026/020420	5/24/2026	
Digital Predistortion System and Method for Linearizing an RF Power Amplifier with Nonlinear Gain Characteristics and Memory Effect	US	80,548,830	3/5/2024	
Digital predistortion system and method for high efficiency transmitters	US	11,798,787	2/21/2025	7,336,725
Digital predistortion system and method for high efficiency transmitters	Canada	29,693,034	2/19/2025	15,67239
Digital predistortion system and method for high efficiency transmitters	China	102080006027.7	2/19/2025	2,100,800,006,027.7
Digital predistortion system and method for high efficiency transmitters	Germany	3773447.9	2/19/2025	6,663,996.11
Digital predistortion system and method for high efficiency transmitters	EPD	3773447.9	2/19/2025	17,603.9
Digital predistortion system and method for high efficiency transmitters	EPD	17,786,032	7/12/2021	
Digital predistortion system and method for high efficiency transmitters	France	3773447.9	2/19/2025	17,603.9
Digital predistortion system and method for high efficiency transmitters	France	3773447.9	2/19/2025	17,603.9
Digital predistortion system and method for high efficiency transmitters	India	3846746N/2025	2/21/2025	
Digital predistortion system and method for high efficiency transmitters	Republic of Korea	10-2026-7029865	2/21/2026	10-0297507
Digital predistortion system and method for high efficiency transmitters	PCT	PCT/US2026/020420	2/21/2026	
Digital predistortion system and method for high efficiency transmitters	US	80,549,280	5/9/2024	
Digital predistortion system and method for high efficiency transmitters	Sweden	3773447.9	2/21/2025	17,603.9
RF power amplifier assembly with heat pipe enhanced cavity	US	11,071,861	3/24/2023	7,012,788
RF power amplifier assembly with heat pipe enhanced cavity	China	202080007137.3	3/24/2023	2,100,800,007,137.3
RF power amplifier assembly with heat pipe enhanced cavity	EPD	57,183,151	3/24/2023	
RF power amplifier assembly with heat pipe enhanced cavity	India	3761746N/2023	10/11/2023	140489
RF power amplifier assembly with heat pipe enhanced cavity	Republic of Korea	10-2026-7001391	10/12/2026	
RF power amplifier assembly with heat pipe enhanced cavity	PCT	PCT/US2025/0204671	5/8/2025	
Digital Transmitter System Employing Self-Generating Predistortion Parameter Lists and Adaptive Controller	US	10,888,836	7/11/2024	7,281,773
Digital Transmitter System Employing Self-Generating Predistortion Parameter Lists and Adaptive Controller	EPD	5760521.3	6/54/2025	
Digital Transmitter System Employing Self-Generating Predistortion Parameter Lists and Adaptive Controller	Republic of Korea	10-2027-7003360	8/24/2027	

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Digital Transmitter System Employing Self-Generating Predistortion Parameter Estimation and Adaptive Control	PCPT	PCPT/150305/021005	6/14/2005	
Envelope Signal Tracking High Efficiency Linear Amplifier	US	11/591,584	5/16/2006	7,239,639
Constant Gain Nonlinear Envelope Tracking High Efficiency Linear Amplifier	US	11/591,735	5/16/2006	7,446,760
System and Method for Digital Timing Error Correction in a Communications System Utilizing Adaptive Predistortion	US	11/735,509	7/19/2005	7,239,975
System and Method for Digital Timing Error Correction in a Communications System Utilizing Adaptive Predistortion	China	200580039787.6	7/19/2005	20,306,900/0797.6
System and Method for Digital Timing Error Correction in a Communications System Utilizing Adaptive Predistortion	PCPT	PCPT/150305/021009	7/19/2005	349816
System and Method for Digital Timing Error Correction in a Communications System Utilizing Adaptive Predistortion	US	PCPT/150305/021013	7/19/2005	
System and Method for Differential IQ Delay Compensation in a Communications System Utilizing Adaptive AGC Compensation	US	60/596,900	7/19/2006	
System and Method for Differential IQ Delay Compensation in a Communications System Utilizing Adaptive AGC Compensation	China	11/739,508	7/19/2005	7,347,587
System and Method for Differential IQ Delay Compensation in a Communications System Utilizing Adaptive AGC Compensation	SPG	200500028767.4	7/17/2005	20,306,900/028767.4
System and Method for Differential IQ Delay Compensation in a Communications System Utilizing Adaptive AGC Compensation	India	5772868.7	7/17/2005	
System and Method for Differential IQ Delay Compensation in a Communications System Utilizing Adaptive AGC Compensation	PCPT	0902/010807/2007	7/17/2006	265825
System and Method for Differential IQ Delay Compensation in a Communications System Utilizing Adaptive AGC Compensation	US	PCPT/150305/021060	7/17/2005	
Auxiliary Transistor Gate Bias Control System and Method	US	60/596,907	7/19/2004	
Auxiliary Transistor Gate Bias Control	India	11/731,766	6/14/2005	
Auxiliary Transistor Gate Bias Control System and Method	PCPT	PCPT/150305/021080	7/11/2005	
Auxiliary Transistor Gate Bias Control System and Method	US	60/596,706	7/11/2004	
Low Loss, High Power, All-Optical's Terahertz Edge Coupled Stripline	US	11/034,230	8/19/2005	7,460,714
Low Loss, High Power, All-Optical's Terahertz Edge Coupled Stripline	US	60/605,676	6/10/2004	
High Power, Multi-Channel Power Amplifier	US	70/727,705	3/17/2009	6,356,650
Amplifier with Wideband Digital Predistortion	US	20070002113	5/11/2009	6,196,767
RF Power Amplifier with Low Intermodulation Distortion and Reduced Memory Effect	US			
Amplifier Unsaturation Using Nonlinear Predistortion	US	10/365,780	3/14/2008	6,408,852
Amplifier Unsaturation Using Nonlinear Predistortion	US	10/716,688	11/24/2009	7,230,517
Amplifier Unsaturation Using Nonlinear Predistortion	China	10945946/009.9	11/20/2008	20,306,900/009.9
Amplifier Unsaturation Using Nonlinear Predistortion	Germany	4798914	11/20/2004	0,920,048 v.1.1
Amplifier Unsaturation Using Nonlinear Predistortion	EPG	4798914	11/20/2004	1889488
Amplifier Unsaturation Using Nonlinear Predistortion	France	4798914	11/20/2004	1889436
Amplifier Unsaturation Using Nonlinear Predistortion	France	4798914	11/20/2004	1889436
Amplifier Unsaturation Using Nonlinear Predistortion	United Kingdom	4798914	11/20/2004	1889436
Amplifier Unsaturation Using Nonlinear Predistortion	Hungary	4798914	11/20/2004	1889488
Amplifier Unsaturation Using Nonlinear Predistortion	Luxembourg	4798914	11/20/2004	1889488
Amplifier Unsaturation Using Nonlinear Predistortion	PCPT	4798914	11/20/2004	1889488
Amplifier Unsaturation Using Nonlinear Predistortion	Sweden	PCPT/150305/021078	11/20/2004	
Amplifier Unsaturation Using Nonlinear Predistortion	Sweden	4798914	11/20/2004	1889436
Amplifier Unsaturation Using Nonlinear Predistortion	Latvia	4798914	11/20/2004	1889436
System and Method for Forward Path Gain Control in a Digital Predistortion Linearized Transmitter	US			
System and Method for Forward Path Gain Control in a Digital Predistortion Linearized Transmitter	China	11/714,191	8/28/2005	7,690,190
System and Method for Forward Path Gain Control in a Digital Predistortion Linearized Transmitter	Germany	200500038643.9	10/10/2005	20,306,900/38643.9
System and Method for Forward Path Gain Control in a Digital Predistortion Linearized Transmitter	EPG	5812860.5	10/12/2005	1810439
System and Method for Forward Path Gain Control in a Digital Predistortion Linearized Transmitter	France	5812860.5	10/12/2005	1810439
System and Method for Forward Path Gain Control in a Digital Predistortion Linearized Transmitter	India	1466/010669/2007	6/11/2007	752307
System and Method for Forward Path Gain Control in a Digital Predistortion Linearized Transmitter	PCPT	PCPT/150305/036775	10/11/2005	
System and Method for Forward Path Gain Control in a Digital Predistortion Linearized Transmitter	US	69/865,723	11/16/2004	
System and Method for Forward Path Gain Control in a Digital Predistortion Linearized Transmitter	Sweden	5812860.5	10/12/2005	1810439
System and Method for Forward Path Gain Control in a Digital Predistortion Linearized Transmitter	United Kingdom	5812860.5	10/12/2005	1810439
Over-Mode Ceramic Filter	US	11/548,473	5/17/2006	7,680,002
Over-Mode Ceramic Filter	EPG	67/04564.1	1/6/2006	
Over-Mode Ceramic Filter	PCPT	PCPT/150305/036798	5/15/2005	
Over-Mode Ceramic Filter	US	60/851,182	5/15/2005	
Full-Duplexed Cable Antenna System with Signal Tap Coupling Approximately Same Radiated Energy	US	07/780,426	11/6/1998	4,972,568
Feed Forward Amplifier Employing Positive Feedback Pilot Generation	US	11/589,526	5/7/2006	7,182,771
Feed Forward Amplifier Employing Positive Feedback Pilot Generation with Automatic Level Control	US	60/605,744	3/6/2005	
RF Power Amplifier System Employing An Analog Predistortion Module Using Zero Crossings	US	11/577,325	3/16/2006	7,495,462
RF Power Amplifier System Employing An Analog Predistortion Module Using Zero Crossings	Germany	4798969	5/26/2006	0,920,048 v.1.1
RF Power Amplifier System Employing An Analog Predistortion Module Using Zero Crossings	SPG	5738069	5/26/2006	1,869,762
RF Power Amplifier System Employing An Analog Predistortion Module Using Zero Crossings	Finland	5738069	5/26/2006	1,869,762
RF Power Amplifier System Employing An Analog Predistortion Module Using Zero Crossings	France	4798968	5/26/2006	1809762
RF Power Amplifier System Employing An Analog Predistortion Module Using Zero Crossings	India	47307/45168/7357	5/26/2006	
RF Power Amplifier System Employing An Analog Predistortion Module Using Zero Crossings	PCPT	PCPT/150305/021092	5/26/2006	
RF Power Amplifier System Employing An Analog Predistortion Module Using Zero Crossings	US	90/684,090	5/27/2005	
RF Power Amplifier System Employing An Analog Predistortion Module Using Zero Crossings	US	60/775,160	7/15/2006	
RF Power Amplifier System Employing An Analog Predistortion Module Using Zero Crossings	Sweden	6795089	3/10/2002	5798907
System and Method for Using the Pilot Frequency from a Positive Feedback Pilot Generation and Detection Circuit to Improve Slew	US	11/562,470	3/15/2006	7,756,888
System and Method for Using the Pilot Frequency from a Positive Feedback Pilot Generation and Detection Circuit to Improve Slew	China	200580031163.8	4/5/2006	20,306,900/31163.8
System and Method for Using the Pilot Frequency from a Positive Feedback Pilot Generation and Detection Circuit to Improve Slew	Germany	5798296.9	4/5/2006	8,037,682 v.1.1
System and Method for Using the Pilot Frequency from a Positive Feedback Pilot Generation and Detection Circuit to Improve Slew	EPG	5798296.9	4/5/2006	1867127
System and Method for Using the Pilot Frequency from a Positive Feedback Pilot Generation and Detection Circuit to Improve Slew	Finland	6798296.9	4/5/2006	1867127
System and Method for Using the Pilot Frequency from a Positive Feedback Pilot Generation and Detection Circuit to Improve Slew	France	5798296.9	4/5/2006	1867127

PATENTS AND PATENT APPLICATIONS

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EXHIBIT 5
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Minimizing Crosstalk	US	10/738,670	03/16/2003	6,952,147
System and Method of Providing Highly Isolated Radio Frequency Interconnections	US			
Broadband Linear Amplifier for Control of Linear Power Amplifier	US	10/020,377	3/10/2001	6,945,951
System and Method of Fast Error Return in a Feedforward Amplifier	US	07/442,870	02/21/2001	7,080,497
Local Loop Feed Forward Power Amplifier	US	10/725,084	11/26/2003	6,949,996
System and Method of Carrier Rejection in a Feedforward Amplifier	US	10/725,803	11/26/2003	6,948,647
Continuously Adaptive Receiver	US	10/723,865	10/29/2003	7,175,081
Continuously Adaptive Receiver	US	11/001,473	01/10/2007	7,754,146
Broadband single vertical polarized base station antenna	US	09/775,880	02/11/2006	
Broadband single vertical polarized base station antenna	US	11/714,951	01/22/2007	7,861,130
Broadband single vertical polarized base station antenna	Germany	7758805.4	01/02/2007	6,026,754-3
Broadband single vertical polarized base station antenna	EPD	7758805.4	01/02/2007	1,897,186
Broadband single vertical polarized base station antenna	France	7758805.4	01/02/2007	1,897,186
Broadband single vertical polarized base station antenna	India	3534/CHENP/2006	10/01/2006	
Broadband single vertical polarized base station antenna	PCT	PCT/US2007/025918	01/02/2007	
Broadband single vertical polarized base station antenna	US	6,027,151-5	01/02/2006	
Broadband single vertical polarized base station antenna	Sweden	7758805.4	01/02/2007	7,018,888-2
Broadband single vertical polarized base station antenna	United Kingdom	7758805.4	01/02/2007	1,897,186
Enhanced Efficiency Feed Forward Power Amplifier with Delay Mismatched Error Cancellation Loop	US	11/573,515	01/16/2006	7,401,107
Enhanced Efficiency Feed Forward Power Amplifier with Delay Mismatched Error Cancellation Loop	PCT	PCT/US2007/008490		
Broadband Dual Polarized Base Station Antenna	US	11/725,647	10/29/2003	7,018,988
Broadband Dual Polarized Base Station Antenna	EPD	7754057.1	01/02/2007	
Broadband Dual Polarized Base Station Antenna	India	3674/CHENP/2006	10/29/2006	
Broadband Dual Polarized Base Station Antenna	PCT	PCT/US2007/008758	01/02/2007	
Broadband Dual Polarized Base Station Antenna	US	6,917,542	10/29/2006	
Low Cost Highly Isolated RF Amplifier	US	10/227,887	04/16/2003	7,108,889
System and Method for Estimation and Compensation of Radiated Feedback Coupling in a High Gain Repeater	US	11/798,180	01/10/2007	7,716,786
System and Method for Estimation and Compensation of Radiated Feedback Coupling in a High Gain Repeater	EPD	7775681.4	01/02/2007	
System and Method for Estimation and Compensation of Radiated Feedback Coupling in a High Gain Repeater	PCT	PCT/US2007/008744	01/02/2007	
System and Method for Estimation and Compensation of Radiated Feedback Coupling in a High Gain Repeater	US	6,978,873	01/10/2006	
Power Envelope Correction Mechanism for Enhancing Linearity of RF/Microwave Power Amplifier	US	08/094,280	10/01/2006	6,743,291
Power Envelope Correction Mechanism for Enhancing Linearity of RF/Microwave Power Amplifier	Japan	527788/97	1/10/1997	8348260
Power Envelope Correction Mechanism for Enhancing Linearity of RF/Microwave Power Amplifier	Republic of Korea	10-1999-0705945	1/10/1999	351,910
Power Envelope Correction Mechanism for Enhancing Linearity of RF/Microwave Power Amplifier	PCT	PCT/US1997/000131	1/10/1997	
Power Envelope Correction Mechanism for Enhancing Linearity of RF/Microwave Power Amplifier	US	08/568,009	01/10/2006	6,937,407
Feed-Forward Correction Loop with Adaptive Predistortion Injection for Linearization of RF Power Amplifier	US	08/085,221	7/23/1996	5,760,646
Feed-Forward Correction Loop with Adaptive Predistortion Injection for Linearization of RF Power Amplifier	Japan	1988068953	7/10/1987	3342018
Feed-Forward Correction Loop with Adaptive Predistortion Injection for Linearization of RF Power Amplifier	Republic of Korea	10-1999-7024492	7/10/1997	308808
Feed-Forward Correction Loop with Adaptive Predistortion Injection for Linearization of RF Power Amplifier	PCT	PCT/US1997/001584	7/10/1997	
Broadband Measurement of RF Power Amplifier Distortion	US	08/670,570	01/02/1996	6,708,377
Adaptive Compensation of RF Amplifier Distortion by Injecting Predistortion Signal Derived from Respectively Different Functions of Input Signal Amplitude	US	08/626,219	01/02/1996	6,801,397
Adaptive compensation of RF amplifier distortion by injecting predistortion signal derived from respectively different function	Germany	97915095.7	01/11/1998	8,971,834-1
Adaptive compensation of RF amplifier distortion by injecting predistortion signal derived from respectively different function	EPD	97915092.7	01/11/1999	8,90218
Adaptive compensation of RF amplifier distortion by injecting predistortion signal derived from respectively different function	France	97915092.7	01/11/1998	8,90218
Adaptive compensation of RF amplifier distortion by injecting predistortion signal derived from respectively different function	Italy	97915092.7	01/11/1998	8,90218
Adaptive compensation of RF amplifier distortion by injecting predistortion signal derived from respectively different function	Japan	135180157	01/10/1997	8190490
Adaptive compensation of RF amplifier distortion by injecting predistortion signal derived from respectively different function	Republic of Korea	98-707626	01/10/1998	1,82358
Adaptive compensation of RF amplifier distortion by injecting predistortion signal derived from respectively different function	PCT	PCT/US98/030070	01/10/1997	
Adaptive compensation of RF amplifier distortion by injecting predistortion signal derived from respectively different function	Sweden	97915092.7	01/11/1998	9,791,509-7
Adaptive compensation of RF amplifier distortion by injecting predistortion signal derived from respectively different function	United Kingdom	97915092.7	01/11/1998	8,90218
Adaptive digital predistortion linearization and feed-forward correction of RF power amplifier	US	08/771,700	01/20/1996	5,889,378
Adaptive digital predistortion linearization and feed-forward correction of RF power amplifier	US	08/706,167	01/28/1998	5,948,183
Adaptive digital predistortion linearization and feed-forward correction of RF power amplifier	Germany	97607188.7	01/11/1997	8,971,695-9
Adaptive digital predistortion linearization and feed-forward correction of RF power amplifier	EPD	97917350.7	01/11/1997	8,88501
Adaptive digital predistortion linearization and feed-forward correction of RF power amplifier	France	97827188.7	01/11/1997	8,88501
Adaptive digital predistortion linearization and feed-forward correction of RF power amplifier	Italy	97907188.7	01/11/1997	8,88501
Adaptive digital predistortion linearization and feed-forward correction of RF power amplifier	Japan	1098-518683	01/11/1997	
Adaptive digital predistortion linearization and feed-forward correction of RF power amplifier	Republic of Korea	10-1999-7023580	01/10/1999	10,08780-50
Adaptive digital predistortion linearization and feed-forward correction of RF power amplifier	Netherlands	97607188.7	01/11/1997	8,88501
Adaptive digital predistortion linearization and feed-forward correction of RF power amplifier	PCT	PCT/US1997/034068	01/11/1997	
Adaptive digital predistortion linearization and feed-forward correction of RF power amplifier	Sweden	97887188.7	01/11/1997	9,788,718-7
Adaptive digital predistortion linearization and feed-forward correction of RF power amplifier	United Kingdom	97807188.7	01/11/1997	8,88501
Control of RF Error Extraction Using Auto-Calibrating RF Correlator	US	08/058,873	01/09/1994	5,810,100
Control of RF Error Extraction Using Auto-Calibrating RF Correlator	Japan	6435451-08	11/23/1990	9842012
Control of RF Error Extraction Using Auto-Calibrating RF Correlator	Republic of Korea	10-1989-7020014	09/10/1989	1,435000
Control of RF Error Extraction Using Auto-Calibrating RF Correlator	PCT	PCT/US1993/004009		
Adaptive compensation of RF amplifier distortion by injecting predistortion signal derived from respectively different function	US	09/373,875	01/01/1999	6,021,288
Adaptive compensation of RF amplifier distortion by injecting predistortion signal derived from respectively different function	US	09/051,515	01/01/1998	6,076,216
High Efficiency Feed Forward RF Power Amplifier with Predistortion Enhancement	US	08/756,161	7/16/1996	5,876,245

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Spectral distortion monitor for controlling pre-distortion and feed-forward linearization of RF power amplifier	US	09/186,596	11/27/1999	6,111,461
Spectral distortion monitor for controlling pre-distortion and feed-forward linearization of RF power amplifier	US	08/911,877	7/27/2000	6,276,106
Spectral distortion monitor for controlling pre-distortion and feed-forward linearization of RF power amplifier	Germany	1912738	2/14/2001	6,013,947.8
Spectral distortion monitor for controlling pre-distortion and feed-forward linearization of RF power amplifier	EPN	1362758	3/14/2001	1,080,617
Spectral distortion monitor for controlling pre-distortion and feed-forward linearization of RF power amplifier	France	1611738	7/24/2001	1,089,917
Spectral distortion monitor for controlling pre-distortion and feed-forward linearization of RF power amplifier	Japan	2001-066528	8/26/2001	4813,974
Spectral distortion monitor for controlling pre-distortion and feed-forward linearization of RF power amplifier	PCT	PCT/JP2001/004797	2/4/2001	
Spectral distortion monitor for controlling pre-distortion and feed-forward linearization of RF power amplifier	Sweden	1612758	7/14/2001	1,011,738
Spectral distortion monitor for controlling pre-distortion and feed-forward linearization of RF power amplifier	United Kingdom	1502758	2/14/2001	1,020,17
Distortion Detection Apparatus for Controlling Pre-Distortion, Carrier Cancelling and Feed-Forward Cancellation in Linear RF Power Amplifier	US	08/941,080	8/17/2000	6,356,508
Carrier-blanking mechanism for sweeping detector used to measure and correct RF power amplifier distortion	US	09/679,713	1/27/2002	6,407,635
Carrier-blanking mechanism for sweeping detector used to measure and correct RF power amplifier distortion	US	08/935,127	8/16/2001	6,407,875
Carrier-blanking mechanism for sweeping detector used to measure and correct RF power amplifier distortion	Germany	1903814.2	1/8/2001	9654589.7
Carrier-blanking mechanism for sweeping detector used to measure and correct RF power amplifier distortion	EPN	1903814.2	1/8/2001	1,183,077
Carrier-blanking mechanism for sweeping detector used to measure and correct RF power amplifier distortion	Finland	1903814.2	1/8/2001	1,183,077
Carrier-blanking mechanism for sweeping detector used to measure and correct RF power amplifier distortion	France	1903814.2	1/8/2001	1,183,077
Carrier-blanking mechanism for sweeping detector used to measure and correct RF power amplifier distortion	Japan	1903814.2	1/8/2001	1,183,077
Carrier-blanking mechanism for sweeping detector used to measure and correct RF power amplifier distortion	PCT	PCT/JP2001/009487	1/8/2001	470,931.5
Carrier-blanking mechanism for sweeping detector used to measure and correct RF power amplifier distortion	Sweden	1903814.2	1/8/2001	1,183,077
Carrier-blanking mechanism for sweeping detector used to measure and correct RF power amplifier distortion	United Kingdom	1903814.2	1/8/2001	1,183,077
Closed Loop Active Cancellation Technique (ACT)-Based RF Power Amplifier Linearization Architecture	US	10/564,036	12/21/2000	6,452,436
Closed Loop Active Cancellation Technique (ACT)-Based RF Power Amplifier Linearization Architecture	PCT	PCT/US2001/008297	12/21/2000	
Multi-Layer RF Printed Circuit Architecture with Low-Inductance Interconnection and Low Thermal Resistance for Wideband Power Devices	US	09/488,505	1/23/2000	5,456,115
Multi-Layer RF Printed Circuit Architecture with Low-Inductance Interconnection and Low Thermal Resistance for Wideband Power Devices	US	09/116,801	1/21/1999	6,304,438
High Linearity Multistage RF Amplifier	US	09/889,720	9/19/2001	6,010,096.4
High Linearity Multistage RF Amplifier	Germany	1367115.3	11/15/2001	1,010,096.4
High Linearity Multistage RF Amplifier	EPN	1367115.3	11/15/2001	1,010,096.4
High Linearity Multistage RF Amplifier	Denmark	1367115.3	11/15/2001	1,010,096.4
High Linearity Multistage RF Amplifier	France	1367115.3	11/15/2001	1,010,096.4
High Linearity Multistage RF Amplifier	PCT	PCT/JP2001/026066	8/24/2001	
High Linearity Multistage RF Amplifier	US	09/889,720	9/19/2001	6,010,096.4
High Linearity Multistage RF Amplifier	Sweden	1367115.3	11/15/2001	1,010,096.4
Multi-Layer RF Printed Circuit Architecture with Low-Inductance Interconnection and Low Thermal Resistance for Wideband Power Devices	US	10/125,221	4/18/2000	5,681,489
High Power, Wide Bandwidth, Spectrally Efficient Amplifier	US	10/091,746.1	7/11/2001	5,819,176
Sweep Performance Monitor for measuring and correcting RF power amplifier distortion	US	08/927,804	8/20/2001	6,284,681
Switch Assembly with a Multi-Pole Switch for Combining Amplified RF Signals to a Single RF Signal	US	09/793,708	1/26/2001	6,587,604
Switch Assembly with a Multi-Pole Switch for Combining Amplified RF Signals to a Single RF Signal	US	09/177,894	1/23/2000	
Installation Slot for Housing Electronic Equipment	US	10/258,192	1/11/2000	
Installation Slot for Housing Electronic Equipment	Germany	1784788	7/18/2001	6,010,096.4
Installation Slot for Housing Electronic Equipment	EPN	1784788	7/18/2001	6,010,096.4
Installation Slot for Housing Electronic Equipment	Denmark	1784788	7/18/2001	6,010,096.4
Installation Slot for Housing Electronic Equipment	France	1784788	7/18/2001	6,010,096.4
Installation Slot for Housing Electronic Equipment	PCT	PCT/JP2001/021640	7/18/2001	
Installation Slot for Housing Electronic Equipment	US	09/889,720	9/19/2001	6,010,096.4
Installation Slot for Housing Electronic Equipment	Sweden	1784788	7/18/2001	6,010,096.4
Installation Slot for Housing Electronic Equipment	United Kingdom	1784788	7/18/2001	6,010,096.4
RF Jack Power View for telecommunications equipment	US	09/889,720	9/19/2001	6,010,096.4
Power Regulation System for Submarine Telecommunications Vessel	US	10/880,423	8/18/2004	8,171,417
System and Method Using the Pilot Frequency from a Positive Feedback Pilot System to Improve Second Loop Convergence for a Feedforward Amplifier	US	11/920,103	6/18/2007	7,895,576
System and Method Using the Pilot Frequency from a Positive Feedback Pilot System to Improve Second Loop Convergence for a Feedforward Amplifier	US	09/818,268	8/12/2006	
Feed Forward Amplifier Loop Control Utilizing RF Signal Processing	Taiwan	09/129,096	10/21/2001	17,681
Feed Forward Amplifier Loop Control Utilizing RF Signal Processing	US	10/164,173	11/21/2001	6,887,713
Feed Forward Amplifier Loop Control Utilizing RF Signal Processing	Australia	2001119307	8/6/2002	2,068,150.1
Feed Forward Amplifier Loop Control Utilizing RF Signal Processing	US	10/164,173	11/21/2001	6,887,713
Intelligent Multiplexers for an Antenna User Management System	US	09/877,110	10/30/2001	6,464,581
Intelligent Multiplexers for an Antenna User Management System	Taiwan	09/129,096	10/21/2001	17,681
Intelligent Multiplexers for an Antenna User Management System	US	10/164,173	11/21/2001	6,887,71

EXHIBIT A

PATENTS AND PATENT APPLICATIONS

Microarray Diode Array Antenna	United Kingdom	GB08071569.6	1/21/2008	
Monolithic Electric Ceramic	United Kingdom	SU2228.9	4/8/2008	1414117
Monolithic Electric Ceramic	United Kingdom	GB0807498.6	5/18/2008	08044317
Monolithic Electric Ceramic	United Kingdom	GB0715082.2	7/15/2007	02046387
Monolithic Electric Ceramic	United Kingdom	GB0715083.3	7/15/2007	08044308
Monolithic Electric Ceramic	United Kingdom	GB0616421.5	8/29/2007	08044301
Monolithic Electric Ceramic	US	PC17058228/P020025	1/17/2008	
Monolithic Electric Ceramic	United Kingdom	GB0725146.7	1/16/2007	
Improved digital radio base system and method (may be revised)	US	11,826,344	7/18/2008	
Improved digital radio base system and method	EPO	8123113.7	1/11/2008	
Improved digital radio base system and method	PCT	PCT/I12008/P000451	1/11/2008	
Improved digital radio base system and method	US	8078603.84	1/11/2007	
Adaptive Echo Cancellation for an On-Frequency RF Repeater Using a Weighted Power Spectrum	EPO	8718187.6	7/3/2009	
Adaptive Echo Cancellation for an On-Frequency RF Repeater Using a Weighted Power Spectrum	US	PCT/A160006/P000780	1/26/2007	
Adaptive Echo Cancellation for an On-Frequency RF Repeater Using a Weighted Power Spectrum	US	607893.152	1/24/2007	
Single Pole Vertically Polarized Variable Azimuth Beam Width Antenna for Wireless Network	US	12,029,667	1/22/2008	6,968,780
Single Pole Vertically Polarized Variable Azimuth Beam Width Antenna for Wireless Network	EPO	12,074,473	5/1/2008	7,716,394
Single Pole Vertically Polarized Variable Azimuth Beam Width Antenna for Wireless Network	PCT	PT28390.5	1/6/2008	
Single Pole Vertically Polarized Variable Azimuth Beam Width Antenna for Wireless Network	PCT	PCT/I160008/P000845	1/6/2008	
Antenna control system	US	807805,002	8/5/2007	
Antenna control system	China	111791,621	5/8/2007	7,389,016
Antenna Control System	Germany	D00080388H4.1	11/25/2005	
Antenna Control System	France	9804961.5	11/25/2005	
Antenna Control System	EPO	9804961.5	11/25/2005	1813667
Antenna Control System	India	9804961.5	11/25/2005	100877
Antenna control system	France	1204162-087/2007	11/25/2005	
Antenna control system	India	9804961.5	7/16/2011	1813667
Antenna Control System	Netherlands	1204162-087/2007	11/25/2005	
Antenna control system	PCT	PCT/I160008/P000776	11/25/2005	
Antenna control system	Sweden	6607880-9	11/25/2005	0803890.9
Antenna control system	United Kingdom	1804685.5	11/25/2005	1813667
Antenna control system	US	12,795,576	8/19/2007	8,193,141
Antenna Control System	China	200509038428.5	5/1/2005	2,00509038428.4
Antenna Control System	Germany	6,007,956-11	7/15/2005	
Antenna control system	India	1333/INDAP/2007	12/29/2005	
Antenna control system	PCT	PCT/SK2005/001777	11/29/2005	
Antenna control system	Sweden	2402979-5	11/25/2004	0402879-1
Dual staggered vertically polarized variable azimuth beam width antenna for wireless network	US	11,075,980	3/7/2008	7,990,528
Variable azimuth beam width antenna for wireless network	Germany	8726679	10/8/2005	8,020,85413
Variable azimuth beam width antenna for wireless network	EPO	8726679	10/8/2005	11,752,25
Variable azimuth beam width antenna for wireless network	France	8726679	10/8/2005	11,752,25
Dual staggered vertically polarized variable azimuth beam width antenna for wireless network	PCT	PCT/I160008/P00176	3/7/2008	
Dual staggered vertically polarized variable azimuth beam width antenna for wireless network	US	607893.150	3/8/2007	
Variable azimuth beam width antenna for wireless network	Sweden	8726673	10/8/2005	8726673
Dual Stagger Offset-axis Azimuth Beam Width Controlled Antenna for Wireless Network	US	12,080,482	4/8/2008	6,930,088
Dual Stagger Offset-axis Azimuth Beam Width Controlled Antenna for Wireless Network	PCT	PCT/I160008/P00235	4/2/2008	
Dual Stagger Offset-axis Azimuth Beam Width Controlled Antenna for Wireless Network	US	607893.150	4/6/2007	
On FREQUENCY REPEATER WITH AGC STABILITY CHARACTERIZATION	US	12,154,179	5/20/2008	8,075,187
ON FREQUENCY REPEATER WITH AGC STABILITY CHARACTERIZATION	EPO	8757868	5/20/2005	
ON FREQUENCY REPEATER WITH AGC STABILITY CHARACTERIZATION	PCT	PCT/I160008/P000673	5/20/2005	
CAN FREQUENCY REPEATER WITH AGC STABILITY CHARACTERIZATION	US	807915,230	5/20/2007	
Remote Antenna Positioning Data Acquisition	US	12,152,718	5/5/2008	7,990,525
Remote Antenna Positioning Data Acquisition	EPO	8787748	5/5/2005	
Remote Antenna Positioning Data Acquisition	PCT	PCT/I160008/P000284	5/5/2005	
Remote Antenna Positioning Data Acquisition	US	807881,882	5/18/2007	
Triples stagger offset-axis azimuth beam width controlled antenna for wireless network	US	12,157,846	5/11/2008	8,841,576
Triples stagger offset-axis azimuth beam width controlled antenna for wireless network	US	12,0517,108	8/18/2008	
Triples stagger offset-axis azimuth beam width controlled antenna for wireless network	EPO	6792182	5/11/2008	
Triples stagger offset-axis azimuth beam width controlled antenna for wireless network	PCT	PCT/I160008/P00358	5/11/2008	
Triples stagger offset-axis azimuth beam width controlled antenna for wireless network	US	607894,373	6/18/2007	
Center panel reconfigurable Three-Column Array Antenna for Wireless Network (ATTEMPT TO REVISE)	US	12,175,425	7/11/2008	
Center panel reconfigurable Three-Column Array Antenna for Wireless Network	US	807865,489	7/26/2007	
Dual Polarization Antenna Element with Dielectric Bandwidth Compensation and Improved Cross-Coupling	US	11,732,694	8/5/2008	7,998,745
Dual Polarization Antenna Element with Dielectric Bandwidth Compensation and Improved Cross-Coupling	US	607894,805	8/5/2007	
Broadband coplanar antenna element	US	11,732,693	8/17/2008	8,530,160

PATENTS AND PATENT APPLICATIONS

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SCREENING PATENTS AND PATENT APPLICATIONS

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SCHEDULE A
PATENTS AND PATENT APPLICATIONS

Amplification System having Mask Detection and Bias Compensation	Finland	10992244	10/18/2009	5103974
Amplification System having Mask Detection and Bias Compensation	Republic of Korea	10-1089-0206139	10/18/2009	KR10-2425867
Amplification System having Mask Detection and Bias Compensation	United Kingdom	2402027	10/18/2009	586224
Amplification System Using Baseband Mixer	US	7,747,443	10/18/2009	5,178,339
Amplifier Distortion Compensation Using Cross-Modulation	US	7,747,424	10/18/2009	5,181,792
Amplifier for antennas	US	7,747,424	10/18/2009	5,181,792
Amplifier for antennas	Canada	2,226,788	7/23/2008	2,227,889
Amplifier for antennas	Germany	10,024,780.2	7/23/2008	2,062,437
Amplifier for antennas	Denmark	9630420.2	7/23/2008	8772014
Amplifier for antennas	EPO	9630420.2	7/23/2008	8772014
Amplifier for antennas	Spain	9630420.2	7/23/2008	21,857,788
Amplifier for antennas	Finland	10,024,780.2	7/23/2008	8772014
Amplifier for antennas	France	9630420.2	7/23/2008	8772014
Amplifier for antennas	Italy	9630420.2	7/23/2008	8772014
Amplifier for antennas	PCT	PCT/US08/020958	7/23/2008	8772014
Amplifier for antennas and using integrated dual stage mixer	Sweden	9630420.2	7/23/2008	8772014
Amplifier for antennas	Sweden	9630420.2	7/23/2008	8772014
Amplifier for antennas	United Kingdom	9630420.2	7/23/2008	8772014
Enhanced Efficiency (EMCC) Based Feed Forward Amplifier	US	7,747,424	10/18/2009	5,181,792
Enhanced efficiency (EMCC) Based Feed Forward Amplifier	China	9630420.2	7/23/2008	8772014
Enhanced Efficiency (EMCC) Based Feed Forward Amplifier	China	9630420.2	7/23/2008	8772014
Enhanced Efficiency (EMCC) Based Feed Forward Amplifier	EPV	9630420.2	7/23/2008	8772014
Enhanced Efficiency (EMCC) Based Feed Forward Amplifier	Republic of Korea	10-1089-0206139	10/18/2009	5103974
Enhanced Efficiency (EMCC) Based Feed Forward Amplifier	PCT	PCT/US08/020958	7/23/2008	8772014
Enhanced Efficiency (EMCC) Based Feed Forward Amplifier	US	7,747,424	10/18/2009	5,181,792
Inter Cell Interference Coordination in Wireless Networks	US	7,747,424	10/18/2009	5,181,792
Inter Cell Interference Coordination in Wireless Networks	PCT	PCT/US08/020958	7/23/2008	8772014
Inter Cell Interference Coordination in Wireless Networks	US	7,747,424	10/18/2009	5,181,792
High Speed Transmitters in a Wireless Network	US	7,747,424	10/18/2009	5,181,792
High Speed Transmitters in a Wireless Network	PCT	PCT/US08/020958	7/23/2008	8772014
Multiband Active/Passive Base Station Antennas	US	7,747,424	10/18/2009	5,181,792
Multiband Active/Passive Base Station Antennas	PCT	PCT/US08/020958	7/23/2008	8772014
Multiband Active/Passive Base Station Antennas	US	7,747,424	10/18/2009	5,181,792
Arrangement and method for coupling between adjustable resonators	Finland	10,024,780.2	7/23/2008	8772014
Arrangement and method for coupling between adjustable resonators	US	7,747,424	10/18/2009	5,181,792
Arrangement and method for coupling between adjustable resonators	US	7,747,424	10/18/2009	5,181,792
Filter with External Coupling Pin	EPV	9630420.2	7/23/2008	8772014
An improved resonator structure for a cavity filter arrangement	Finland	10,024,780.2	7/23/2008	8772014
Filter with External Coupling Pin	PCT	PCT/US08/020958	7/23/2008	8772014
An improved resonator structure for a cavity filter arrangement	US	7,747,424	10/18/2009	5,181,792
An improved resonator structure for a cavity filter arrangement	US	7,747,424	10/18/2009	5,181,792
Filter with External Coupling Pin	Sweden	9630420.2	7/23/2008	8772014
Directional Coupler	US	7,747,424	10/18/2009	5,181,792
Directional Coupler	Brazil	9630420.2	7/23/2008	8772014
Directional Coupler	China	9630420.2	7/23/2008	8772014
Directional Coupler	Finland	10,024,780.2	7/23/2008	8772014
Directional Coupler	France	9630420.2	7/23/2008	8772014
Directional Coupler	US	7,747,424	10/18/2009	5,181,792
Directional Coupler	Sweden	9630420.2	7/23/2008	8772014
Directional Coupler	United Kingdom	9630420.2	7/23/2008	8772014
Resonator Filter	US	7,747,424	10/18/2009	5,181,792
Resonator Filter	Germany	10,024,780.2	7/23/2008	8772014
Resonator Filter	EPO	9630420.2	7/23/2008	8772014
Resonator Filter	Finland	10,024,780.2	7/23/2008	8772014
Resonator Filter	France	9630420.2	7/23/2008	8772014
Resonator Filter	US	7,747,424	10/18/2009	5,181,792
Resonator Filter	Sweden	9630420.2	7/23/2008	8772014
Resonator Filter	United Kingdom	9630420.2	7/23/2008	8772014
Resonator Filter	US	7,747,424	10/18/2009	5,181,792
Resonator Filter	Sweden	9630420.2	7/23/2008	8772014
Resonator Filter	US	7,747,424	10/18/2009	5,181,792
Radio device entering filter arrangement	US	7,747,424	10/18/2009	5,181,792
Filtering arrangement of antenna and	Brazil	9630420.2	7/23/2008	8772014
Filtering arrangement of antenna and	China	9630420.2	7/23/2008	8772014
Filtering arrangement of antenna and	EPV	9630420.2	7/23/2008	8772014
Filtering arrangement of antenna and	Finland	10,024,780.2	7/23/2008	8772014
Filtering arrangement of antenna and	India	9630420.2	7/23/2008	8772014
Filtering arrangement of antenna and	PCT	PCT/US08/020958	7/23/2008	8772014
By-pass arrangement of a low noise amplifier	US	7,747,424	10/18/2009	5,181,792
By-pass arrangement of a low noise amplifier	Brazil	9630420.2	7/23/2008	8772014
By-pass arrangement of a low noise amplifier	China	9630420.2	7/23/2008	8772014
By-pass arrangement of a low noise amplifier	EPV	9630420.2	7/23/2008	8772014
By-pass arrangement of a low noise amplifier	Finland	10,024,780.2	7/23/2008	8772014
By-pass arrangement of a low noise amplifier	France	9630420.2	7/23/2008	8772014
By-pass arrangement of a low noise amplifier	US	7,747,424	10/18/2009	5,181,792
By-pass arrangement of a low noise amplifier	Sweden	9630420.2	7/23/2008	8772014
By-pass arrangement of a low noise amplifier	United Kingdom	9630420.2	7/23/2008	8772014
Arrangement for steering radiation lobe of antenna	US	7,747,424	10/18/2009	5,181,792
Arrangement for steering radiation lobe of antenna	Brazil	9630420.2	7/23/2008	8772014
Arrangement for steering radiation lobe of antenna	China	9630420.2	7/23/2008	8772014
Arrangement for steering radiation lobe of antenna	EPV	9630420.2	7/23/2008	8772014
Arrangement for steering radiation lobe of antenna	Finland	10,024,780.2	7/23/2008	8772014
Arrangement for steering radiation lobe of antenna	France	9630420.2	7/23/2008	8772014
Arrangement for steering radiation lobe of antenna	US	7,747,424	10/18/2009	5,181,792
Arrangement for steering radiation lobe of antenna	Sweden	9630420.2	7/23/2008	8772014
Arrangement for steering radiation lobe of antenna	United Kingdom	9630420.2	7/23/2008	8772014
Arrangement for steering radiation lobe of antenna	India	9630420.2	7/23/2008	8772014
Arrangement for steering radiation lobe of antenna	PCT	PCT/US08/020958	7/23/2008	8772014
Antenna structure and a method for its manufacture	US	7,747,424	10/18/2009	5,181,792
A new antenna structure and a method for its manufacture	Brazil	9630420.2	7/23/2008	8772014
A new antenna structure and a method for its manufacture	China	9630420.2	7/23/2008	8772014
A new antenna structure and a method for its manufacture	EPO	9630420.2	7/23/2008	8772014
A new antenna structure and a method for its manufacture	Finland	10,024,780.2	7/23/2008	8772014
A new antenna structure and a method for its manufacture	France	9630420.2	7/23/2008	8772014
A new antenna structure and a method for its manufacture	US	7,747,424	10/18/2009	5,181,792
A new antenna structure and a method for its manufacture	Sweden	9630420.2	7/23/2008	8772014
A new antenna structure and a method for its manufacture	United Kingdom	9630420.2	7/23/2008	8772014
Turning Element and Tunable Resonator	US	7,747,424	10/18/2009	5,181,792
Piezoelectric element for resonator tuning	US	7,747,424	10/18/2009	5,181,792
Piezoelectric element for resonator tuning	China	9630420.2	7/23/2008	8772014
Piezoelectric element for resonator tuning	EPO	9630420.2	7/23/2008	8772014
Piezoelectric element for resonator tuning	Finland	10,024,780.2	7/23/2008	8772014
Piezoelectric element for resonator tuning	France	9630420.2	7/23/2008	8772014
Piezoelectric element for resonator tuning	US	7,747,424	10/18/2009	5,181,792
Directional Coupler	US	7,747,424	10/18/2009	5,181,792
Directional Coupler	Brazil	9630420.2	7/23/2008	8772014
Directional Coupler	China	9630420.2	7/23/2008	8772014
Directional Coupler	EPV	9630420.2	7/23/2008	8772014
Directional Coupler	Finland	10,024,780.2	7/23/2008	8772014
Directional Coupler	France	9630420.2	7/23/2008	8772014
Directional Coupler	US	7,747,424	10/18/2009	5,181,792
Directional Coupler	Sweden	9630420.2	7/23/2008	8772014
Directional Coupler	United Kingdom	9630420.2	7/23/2008	8772014
Directional Coupler	India	9630420.2	7/23/2008	8772014
Directional Coupler	PCT	PCT/US08/020958	7/23/2008	8772014
Directional Coupler	US	7,747,424	10/18/2009	5,181,792

SYNOPSIS

Method for tuning a radio filter	SPC	8734851	4/15/2006	
Method for tuning a radio filter	Finland	10015809	5/31/2007	121892
Method for tuning a radio filter	US	PC7/0206109/001	4/19/2008	
Method for tuning a radio filter	US	13/261,380	6/17/2011	
Method for tuning a radio filter	US	11/293,461	6/17/2011	
Method for tuning a radio filter	SPC	10400772	7/1/2002	115804
Method for tuning a radio filter	Finland	13/265,617	12/10/2015	
Method for tuning a radio filter	US	13/268,981	12/10/2015	
Method for tuning a radio filter	SPC	13/409,919	12/10/2015	
Method for tuning a radio filter	Finland	20207186	12/10/2015	
Method for tuning a radio filter	Spain	10400845-9	5/17/2008	
Method for tuning a radio filter	China	20048001780-4	5/17/2008	20048001780-4
Method for tuning a radio filter	Germany	4731232-5	5/17/2008	4731232-5
Method for tuning a radio filter	SPC	4731232-5	5/17/2008	4731232-5
Method for tuning a radio filter	Finland	20089402	5/18/2008	118501
Method for tuning a radio filter	France	4731232-5	5/17/2008	1894407
Method for tuning a radio filter	India	18947818/2008	5/17/2008	277104
Method for tuning a radio filter	Italy	4731232-5	5/17/2008	1894407
Method for tuning a radio filter	US	PC7/02094/000052	5/17/2008	
Method for tuning a radio filter	Sweden	4731232-5	5/17/2008	4731232-5
Method for tuning a radio filter	United Kingdom	4731232-5	5/17/2008	1894407
Method for tuning a radio filter and a system for tuning a radio filter	US	10/493,807	12/12/2006	6387,427
Wide band adjustable capacitor resonator	US	13/478,238	5/12/2012	
Wide band adjustable capacitor resonator	Finland	10615667	6/20/2011	
Adjustable Resonator Filter and Method for Adjusting Coupling between Resonator Cavities	US			
		13/523,615	6/14/2011	
Variable inductive coupling between resonators	SPC	1217348-7	6/20/2012	
Variable resonator filter and method for tuning coupling between resonator cavities	Finland			
		10115721	7/6/2011	123459
Method for tuning a radio filter and a system for tuning a radio filter	China	1820215-6	12/11/2009	701020585-5
Method for tuning a radio filter and a system for tuning a radio filter	Germany	1270014-9	12/11/2009	8013746-1
Method for tuning a radio filter and a system for tuning a radio filter	SPC	1270014-9	12/11/2009	1824729
Method for tuning a radio filter and a system for tuning a radio filter	France	1270014-9	12/11/2009	1824729
Method for tuning a radio filter and a system for tuning a radio filter	US	PC7/02101/000736	12/11/2009	
Method for tuning a radio filter and a system for tuning a radio filter	Sweden	1820215-6	12/11/2009	0904016-1
Method for tuning a radio filter and a system for tuning a radio filter	United Kingdom	1270014-9	12/11/2009	1824729
Method for tuning a radio filter and a system for tuning a radio filter	US	10/493,807	12/12/2006	6387,427
Method for tuning a radio filter and a system for tuning a radio filter	China	1820215-6	12/11/2009	701020585-5
Method for tuning a radio filter and a system for tuning a radio filter	Germany	1270014-9	12/11/2009	8013746-1
Method for tuning a radio filter and a system for tuning a radio filter	SPC	1270014-9	12/11/2009	1824729
Method for tuning a radio filter and a system for tuning a radio filter	France	1270014-9	12/11/2009	1824729
Method for tuning a radio filter and a system for tuning a radio filter	Hong Kong	4731232-5	5/17/2008	1894407
Method for tuning a radio filter and a system for tuning a radio filter	US	PC7/02101/000736	12/11/2009	
Method for tuning a radio filter and a system for tuning a radio filter	Sweden	1820215-6	12/11/2009	0904016-1
Method for tuning a radio filter and a system for tuning a radio filter	United Kingdom	1270014-9	12/11/2009	1824729
Method for tuning a radio filter and a system for tuning a radio filter	US	10/493,807	12/12/2006	6387,427
Method for tuning a radio filter and a system for tuning a radio filter	China	1820215-6	12/11/2009	701020585-5
Method for tuning a radio filter and a system for tuning a radio filter	Germany	1270014-9	12/11/2009	8013746-1
Method for tuning a radio filter and a system for tuning a radio filter	SPC	1270014-9	12/11/2009	1824729
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Method for tuning a radio filter and a system for tuning a radio filter	United Kingdom	1270014-9	12/11/2009	

SCHOOLS

PARENTS AND PARENT ADVOCATES

Antenna filter	India	6432705.139.1026	47829245	
Antenna filter	ICT	PCT/JP2003/000146	51367702	
Input arrangement for a low-noise amplifier pair	US	7,148,872	51612005	7,526,268
Input arrangement for a low-noise amplifier pair	France	2698818.2	5172305	
Input arrangement for a low-noise amplifier pair	China	33688609346.8	5174705	8,330838009346.8
Input arrangement for a low-noise amplifier pair	EPG	5717346.5	5174709	
Input arrangement for a low-noise amplifier pair	Finland	23646858	51751204	138710
Input arrangement for a low-noise amplifier pair	India	54817053497300	5176885	
Input arrangement for a low-noise amplifier pair	ICT	PCT/JP2003/000966	5176885	
Our part hybrid microstrip circuit of large type	US	156452.8.7	51979935	5,888,177
Our part hybrid microstrip circuit of large type	China	3621955.6	51982601	855811205.8
Our part hybrid microstrip circuit of large type	Germany	3048023.6	52152062	565,452.9
Our part hybrid microstrip circuit of large type	EPG	1993202.9	52152062	1348481
Our part hybrid microstrip circuit of large type	France	1989025.8	52152062	1348481
Our part hybrid microstrip circuit of large type	Hong Kong	4102306.9	52152062	1661469
Our part hybrid microstrip circuit of large type	ICT	PCT/JP2003/000229	52152062	
Our part hybrid microstrip circuit of large type	Sweden	3008885.5	52152062	8834815.5
Our part hybrid microstrip circuit of large type	United Kingdom	1989025.8	52152062	1348481
Antenna operating with two isolated channels	US	156452.8.7	52152062	6,058,588
Antenna operating with two isolated channels	France	2698818.2	52152062	
Antenna operating with two isolated channels	China	33688609346.8	52152062	8,330838009346.8
Antenna operating with two isolated channels	EPG	5717346.5	52152062	
Antenna operating with two isolated channels	Finland	23646858	52152062	138710
Antenna operating with two isolated channels	India	54817053497300	52152062	
Antenna operating with two isolated channels	ICT	PCT/JP2003/000966	52152062	
Antenna operating with two isolated channels	US	156452.8.7	52152062	6,058,588
Antenna operating with two isolated channels	France	2698818.2	52152062	
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Antenna operating with two isolated channels	France	2698818.2	52152062	
Antenna operating with two isolated channels	China	33688609346.8	52152062	8,330838009346.8
Antenna operating with two isolated channels	EPG	5717346.5	52152062	
Antenna operating with two isolated channels	Finland	23646858	52152062	138710
Antenna operating with two isolated channels	India	54817053497300	52152062	
Antenna operating with two isolated channels	ICT	PCT/JP2003/000966	52152062	
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Antenna operating with two isolated channels				

Repeater with variable bandwidth	EP	0726037.4	11/19/1998	884873
Repeater with variable bandwidth	Spain	07004377.4	5/26/1997	894879
Repeater with variable bandwidth	France	9706117.4	9/25/1997	904875
Repeater with variable bandwidth	US	9706117.4	9/25/1997	904875
Repeater with variable bandwidth	Republic of Korea	96-110762	11/19/1998	913486
Repeater with variable bandwidth	Monaco	1988056A	11/19/1998	915250
Repeater with variable bandwidth	EC	PCT/SE1997/000836	5/26/1997	
Repeater with variable bandwidth	Sweden	9602155.3	5/31/1996	9601151.1
Repeater with variable bandwidth	United Kingdom	9706117.4	5/26/1997	904875
Repeater with variable bandwidth	US	06768612.7	5/26/1997	904875
Repeater with variable bandwidth	Canada	2188547	11/19/1998	
Repeater with variable bandwidth	EC	PCT/SE1996/000837	5/10/1996	
Repeater with variable bandwidth	Sweden	9601605.9	5/11/1996	9601605.9
Repeater with variable bandwidth	US	06768612.7	5/26/1997	904875
Bypass device in an amplifier unit	Sweden	9608446-5	10/21/1995	9608446-5
Substrate dielectric body for controlling propagation velocity in a feed line	US	06796171.4	6/21/1998	9649616.5
Device for adjusting the beam direction of an antenna and feed line structure therefor	Israel	95000977.0	11/24/1997	95000977.0
Device for adjusting the beam direction of an antenna and feed line structure therefor	China	96168925.7	11/23/1997	96168925.7
Device for adjusting the beam direction of an antenna and feed line structure therefor	Germany	98826289.8	5/24/1996	95617681.9
Device for adjusting the beam direction of an antenna and feed line structure therefor	EP	96020688.8	12/13/1997	902508
Device for adjusting the beam direction of an antenna and feed line structure therefor	France	96010085.8	5/24/1996	902508
Device for adjusting the beam direction of an antenna and feed line structure therefor	India	5790706/96	11/18/1997	937644
Device for adjusting the beam direction of an antenna and feed line structure therefor	Italy	96020889.8	5/24/1996	902508
Device for adjusting the beam direction of an antenna and feed line structure therefor	Republic of Korea	10-1967-0708912	11/24/1997	930585
Device for adjusting the beam direction of an antenna and feed line structure therefor	PCT	PCT/SE1996/000876	5/14/1996	
Device for adjusting the beam direction of an antenna and feed line structure therefor	Sweden	9601555.0	5/24/1996	9601555.0
Device for adjusting the beam direction of an antenna and feed line structure therefor	Taiwan	85105778	5/16/1996	96205
Device for adjusting the beam direction of an antenna and feed line structure therefor	United Kingdom	06820089.0	5/24/1996	902508
Method and system for tuning resonant structures	US	067891768	5/24/1997	9622668
Method and system for tuning resonant structures	Sweden	9602080-3	5/25/1996	9602080-3
Method and system for tuning resonant structures	US	067891768	5/24/1997	9622668
Method and system for tuning resonant structures	China	97196071.3	11/19/1998	97196071.3
Method and system for tuning resonant structures	US	067891768	5/24/1997	9622668
Method and system for tuning resonant structures	Denmark	07021058.9	11/22/1995	910205
Method and system for tuning resonant structures	EP	97081068.8	11/22/1995	910205
Method and system for tuning resonant structures	Finland	97081068.8	11/22/1995	910205
Method and system for tuning resonant structures	PCT	PCT/SE1997/001125	5/11/1997	
Method and system for tuning resonant structures	Sweden	9602140-4	11/22/1995	9602140-4
Method and system for tuning resonant structures	United Kingdom	07021058.9	11/22/1995	910205
Method and system for tuning resonant structures	US	067891768	5/24/1997	9622668
Method and system for tuning resonant structures	US	067891768	5/24/1997	9622668
Antenna element	Israel	10480675-5	11/19/1998	10480675-5
A substantially flat, aperture-coupled antenna element	China	96020115.7	11/22/1995	96020115.7
A substantially flat, aperture-coupled antenna element	Germany	96016834.8	5/25/1996	96016834.8
A substantially flat, aperture-coupled antenna element	EP	96016834.8	5/25/1996	96016834.8
A substantially flat, aperture-coupled antenna element	France	96016834.8	5/25/1996	96016834.8
A substantially flat, aperture-coupled antenna element	Indonesia	96016834.8	5/25/1996	96016834.8
A substantially flat, aperture-coupled antenna element	Japan	10211396	11/22/1995	10211396
A substantially flat, aperture-coupled antenna element	PCT	PCT/SE1998/000071	11/22/1995	
Antenna element	Sweden	9702036-3	11/22/1995	9702036-3
A substantially flat, aperture-coupled antenna element	United Kingdom	96004600.8	5/25/1996	96004600.8
Antenna device with improved channel isolation	US	067105895	11/22/1995	960105895
Antenna device with improved channel isolation	China	96001763.2	11/22/1995	96001763.2
Antenna device with improved channel isolation	Germany	96004607.4	5/25/1996	96004607.4
Antenna device with improved channel isolation	EP	96004607.4	5/25/1996	96004607.4
Antenna device with improved channel isolation	France	96004607.4	5/25/1996	96004607.4
Antenna device with improved channel isolation	Hong Kong	102021.7	11/22/1995	102021.7
Antenna device with improved channel isolation	Japan	11-509724	11/22/1995	11-509724
Antenna device with improved channel isolation	PCT	PCT/SE1998/000089	11/22/1995	
Antenna device with improved channel isolation	Sweden	9702186-6	11/22/1995	9702186-6
Antenna device with improved channel isolation	United Kingdom	96004607.4	5/25/1996	96004607.4
Method of producing an antenna element assembly	US	067105895	11/22/1995	960105895
Method of producing an antenna element assembly	Sweden	9702036-3	11/22/1995	9702036-3
Dual band antenna	US	067105895	11/22/1995	960105895
Dual band antenna	Israel	960115075.8	11/22/1995	960115075.8
Dual band antenna	China	960115075.8	11/22/1995	960115075.8
Dual band antenna	Germany	96001763.2	11/22/1995	96001763.2
Dual band antenna	EP	96001763.2	11/22/1995	96001763.2
Dual band antenna	Spain	96001763.2	11/22/1995	96001763.2
Dual band antenna	France	96001763.2	11/22/1995	96001763.2
Dual band antenna	Hong Kong	11-509724	11/22/1995	11-509724
Dual band antenna	Japan	96001763.2	11/22/1995	96001763.2
Dual band antenna	PCT	PCT/SE1998/000089	11/22/1995	
Dual band antenna	Sweden	9702186-6	11/22/1995	9702186-6
Dual band antenna	Taiwan	9702186-6	11/22/1995	9702186-6
Dual band antenna	United Kingdom	96004607.4	5/25/1996	96004607.4
Dual band antenna	US	067105895	11/22/1995	960105895
Dual band antenna	PCT	PCT/SE1998/000089	11/22/1995	
Dual band antenna	Sweden	9702186-6	11/22/1995	9702186-6
Antenna device with two radiating elements having an adjustable phase difference between the radiating elements	US	06796171.4	11/19/1998	
Antenna device with two radiating elements having an adjustable phase difference between the radiating elements	Australia	97001785	11/19/1998	97001785
Antenna device with two radiating elements having an adjustable phase difference between the radiating elements	Israel	95008853.1	11/23/1997	95008853.1
Antenna device with two radiating elements having an adjustable phase difference between the radiating elements	China	96168925.7	11/23/1997	96168925.7
Antenna device with two radiating elements having an adjustable phase difference between the radiating elements	US	067285075	4/2/1999	9605507
Antenna device with two radiating elements having an adjustable phase difference between the radiating elements	Germany	9601014.3	5/14/1996	96051681.9
Antenna device with two radiating elements having an adjustable phase difference between the radiating elements	EP	9601014.3	10/30/1997	952392
Antenna device with two radiating elements having an adjustable phase difference between the radiating elements	France	96014554.2	5/24/1996	902508

[illegible][illegible]

[illegible]

SCHOOLS

Method and circuit arrangement for reducing passband ripple of a bandpass filter	Sweden	9405 820-7	9/5/1999	7803999-7
System predistortion compensator for a power amplifier	US	06/712,847	2/6/1998	9,977,885
System predistortion compensator for a power amplifier	US	06/007,232	4/6/1998	9,746,995
System predistortion compensator for a power amplifier	Canada	2293957	12/7/1999	2293957
System predistortion compensator for a power amplifier	Germany	99918474.1	1/4/2000	99918474.1
Dynamic predistortion compensator for a power amplifier	EPG	99816474.2	1/4/2000	99816474.2
Dynamic predistortion compensator for a power amplifier	Finland	99816474.2	1/4/2000	99816474.2
System predistortion compensator for a power amplifier	UK	PCT/US99/067048	4/7/1999	99816474.2
System predistortion compensator for a power amplifier	Sweden	99916474.2	1/4/2000	99916474.2
System predistortion compensator for a power amplifier	United Kingdom	99916474.2	1/4/2000	99916474.2
System predistortion compensator for a power amplifier	US	08/106,744	7/1/1998	6,202,871
Switchable combiner/splitter	Canada	2356237	12/29/2000	2356237
Switchable combiner/splitter	EPG	99808744.2	1/6/2000	99808744.2
Switchable combiner/splitter	Republic of Korea	10-1005-703490	12/28/2000	10-1005-703490
Switchable combiner/splitter	UK	PCT/US99/071503	7/5/1999	99808744.2
Switchable combiner/splitter	United Kingdom	99808744.2	1/2/2000	99808744.2
Multi-channel amplification system using multi detection	US	08/174,705	1/16/1998	6,458,543
Multi-channel amplification system using multi detection	Canada	2280216	10/18/1999	2280216
Multi-channel amplification system using multi detection	EPG	99902179.3	12/14/1999	99902179.3
Multi-channel amplification system using multi detection	Finland	10682169	10/18/1999	1,688,216
Multi-channel amplification system using multi detection	France	99808744.2	10/28/1999	99808744.2
Multi-channel amplification system using multi detection	Germany	99902179.3	10/18/1999	99902179.3
Multi-channel amplification system using multi detection	United Kingdom	99902179.3	10/18/1999	99902179.3
Low pass, phase and feed forward compensation for a power amplifier	US	06/288,642	11/12/1999	6,231,150
Feed forward compensation using phase and time modulation	US	06/091,112	12/15/1998	6,316,888
Feed forward compensation using phase and time modulation	Canada	2280895	11/11/1999	2280895
Feed forward compensation using phase and time modulation	EPG	99902179.3	12/12/1999	99902179.3
Feed forward compensation using phase and time modulation	Republic of Korea	10-1005-0940258	11/12/1999	99902179.3
Feed forward compensation using phase and time modulation	Sweden	99902179.3	11/12/1999	99902179.3
Feed forward compensation using phase and time modulation	United Kingdom	99902179.3	11/12/1999	99902179.3
Filter and tuning element	US	06/211,260	12/18/1998	6,198,260
Filter and tuning element	Germany	99802145.3	12/12/1999	99802145.3
Filter and tuning element	EPG	99802145.3	12/12/1999	99802145.3
Filter and tuning element	Finland	10682169	12/12/1999	1,688,216
Filter and tuning element	France	99802145.3	12/12/1999	99802145.3
Filter and tuning element	Germany	99802145.3	12/12/1999	99802145.3
Filter and tuning element	United Kingdom	99802145.3	12/12/1999	99802145.3
Filter and tuning element	US	06/247,388	12/22/1999	6,112,851
Filter and tuning element	US	06/012,730	12/18/1998	6,075,851
Circuit arrangement for reducing intermodulation in a bandpass filter system	Germany	99902145.3	12/12/1999	99902145.3
Circuit arrangement for reducing intermodulation in a bandpass filter system	EPG	99902145.3	12/12/1999	99902145.3
Circuit arrangement for reducing intermodulation in a bandpass filter system	Finland	10682169	12/12/1999	1,688,216
Circuit arrangement for reducing intermodulation in a bandpass filter system	France	99802145.3	12/12/1999	99802145.3
Circuit arrangement for reducing intermodulation in a bandpass filter system	Germany	99902145.3	12/12/1999	99902145.3
Circuit arrangement for reducing intermodulation in a bandpass filter system	United Kingdom	99902145.3	12/12/1999	99902145.3
Circuit arrangement for reducing intermodulation in a bandpass filter system	US	06/247,388	12/22/1999	6,112,851
Printed notch and bandpass filtering	US	06/046,990	7/7/1997	5,368,588
Temperature compensation structure for resonator cavity	US	06/078,495	6/18/1997	5,395,419
Temperature compensation structure for resonator cavity	China	99808744.2	12/12/1999	99808744.2
Temperature compensation structure for resonator cavity	Germany	99902145.3	12/12/1999	99902145.3
Temperature compensation structure for resonator cavity	EPG	99902145.3	12/12/1999	99902145.3
Temperature compensation structure for resonator cavity	Finland	10682169	12/12/1999	1,688,216
Temperature compensation structure for resonator cavity	France	99802145.3	12/12/1999	99802145.3
Temperature compensation structure for resonator cavity	Germany	99902145.3	12/12/1999	99902145.3
Temperature compensation structure for resonator cavity	United Kingdom	99902145.3	12/12/1999	99902145.3
Temperature compensation structure for resonator cavity	US	06/247,388	12/22/1999	6,112,851
Temperature compensation structure for resonator cavity	US	06/078,495	6/18/1997	5,395,419
Temperature compensation structure for resonator cavity	US	06/091,112	12/15/1998	6,316,888
Low thermal resistance semiconductor package and mounting structure	US	06/211,260	12/18/1998	6,198,26

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PATENTS AND PATENT APPLICATIONS

Method of manufacturing inner conductor of resonator, and inner conductor of resonator	US	09/7725425	11/25/2000	6514531
Method and arrangement for inducing inner conductor of resonator structure	US	09/7727996	12/5/2000	6501549
Acousto-optic filter in resonator adopting off modulation	US	09/7540889	1/5/2001	6525608
Thermal inner conductor resonator	US	10/6632351	8/18/2003	7008390
Temperature compensated resonator	US	07/971580	10/18/1992	5,366,368
Electrical time constant compensation method for switched, voltage-mode driver circuit	US			
Phase locked loop motor control circuit for tuning cavity resonator	US	06/871284	6/1/2001	6,817,017
Wave locked loop motor control circuit for tuning cavity resonator	US	06/887159	7/9/2003	6,378,808
Wave Station Enclosure	US	18/995432	1/6/2010	12,015,180
Wave Station Enclosure	US	18/411081	1/15/2012	7,968,710
Wave Station with description user interface	US	21/551285	4/7/2010	19,766,887
Wave unit (discontinued by client's instructions)	US	10/889134	7/24/2011	
Wave unit Enclosure	US	05/971394-001	1/4/2012	
US Unit (discontinued by client's instructions)	US	06/988435	7/28/2013	
US Unit	US	09/971326-001	1/14/2012	
US Unit (discontinued by client's instructions)	US	06/988130	7/28/2013	
US Unit (discontinued by client's instructions)	US	02/101184-001	1/4/2011	
US Unit (discontinued by client's instructions)	US	18/019165	4/7/2010	