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To the Honorable Commissioner of Patents

102226772

the attached original documents or copy thereof.

1. Name of conveying party(ies):

ALPHA INDUSTRIES, INC.
20 Sylvan Road
Woburn, MA 01801

2. Name and address of receiving party(ies):

Name: CONEXANT SYSTEMS, INC.

Internal Address:

Additional names(s) of conveying party(ies)

☐ Yes ☒ No

3. Nature of conveyance:

☐ Assignment☐ Merger☒ Security Agreement☐ Change of Name☐ Other

Street Address: 4311 Jamboree Road

City: Newport Beach State: CA ZIP: 92660

Execution Date:

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent numbers(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s)

B. Patent No.(s)

ATTACHED
SCHEDULE BATTACHED
SCHEDULE BAdditional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Michael R. Graif, CHADBOURNE & PARKE
LLP

Internal Address:

6. Total number of applications and patents involved:

395

7. Total fee (37 CFR 3.41):.....\$ 15,800.00

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct, and any attached copy is a true copy of the original document.

Michael R. Graif, Reg. No. 47,298

Name of Person Signing

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September 13, 2002

Date

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PATENT

REEL: 13240 FRAME: 0860

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SCHEDULE B

Granted US Patents

ACTIVE US PATENTS/APPLICATIONS

Tab	Case Number	App Title	Status	App Number	File Date	Agent	Pat Number	Issue Date	COMMENT
1	00CXT0174W	Synthetic Quadrature Generating Apparatus	Granted	776,181	13-Sep-1985		4,787,058	22-Nov-1988	
2	00CXT0185D	Matched Filters for Processing Related Signal Components	Granted	571,596	13-Dec-1995		5,617,063	01-Apr-1997	
3	80E131	Shielded Amplifier	Granted	354,840	04-Mar-1982		4,454,481	12-Jun-1984	
4	82E035	Parameter-Setting Approach to Obtain HiPerformance CTD Transversal Filters for Devices with...	Granted	441,195	12-Nov-1982		4,539,536	03-Sep-1985	
5	85E018	Uncompensated and Compensated GaAs Input Receivers	Granted	759,193	26-Jul-1985		4,703,205	27-Oct-1987	
6	86E006	Third Mode Torsional E-M Resonator	Granted	849,093	07-Apr-1986		5,006,824	09-Apr-1991	
7	90E052	Receiver Designed with Large Output Drive and Having Unique Input Protection Circuit	Granted	591,164	01-Oct-1990	CNXT	5,124,578	23-Jun-1992	
8	92E030	Symmetrical Clock Crystal Oscillator Circuit	Granted	08/155,500	22-Nov-1993		5,455,542	03-Oct-1995	
9	93E032	Direct Connect Radio and Antenna Assembly	Granted	233,289	26-Apr-1994		5,606,732	25-Feb-1997	
10	93E067	Variable Multi-Threshold Detection for 0.3-GMSK	Granted	307,202	16-Sep-1994		5,459,762	17-Oct-1995	
11	94E005	Component Insensitive, Analog Bandpass Filter	Granted	196,328	15-Feb-1994		5,523,719	04-Jun-1996	
12	94E059	Method and Apparatus for Controlling the Wakeup Logic of a Radio Receiver in Sleep Mode	Granted	08/514,509	11-Aug-1995		5,845,204	01-Dec-1998	
13	95E002	An Iterative Filtering Frequency Estimator	Granted	515,403	15-Aug-1995		5,761,250	02-Jun-1998	
14	95E003	An Adaptive Frequency Correction Burst Detector for the GSM Handset System	Granted	08/537,376	29-Sep-1995		5,724,657	03-Mar-1998	
15	95E056	Jitter Circuit for Reduced Switching Noise	Granted	644,762	10-May-1996		5,754,601	19-May-1998	

PATENT

REEL: 13240 FRAME: 0861

Tab	Case Number	App Title	Status	App Number	File Date	Agent	Pat Number	Issue Date	COMMENT
16	95E071	Extended Time Tracking and Peak Energy In-Window Demodulation for Use in a Direct Sequence Spread Spectrum System	Granted	08/568,053	06-Dec-1995	PG	5,778,022	07-Jul-1998	
17	95E072	Variable Digital Automatic Gain Control in a Cordless Direct Sequence Spread Spectrum Telephone	Granted	08/568,161	06-Dec-1995	PG	5,764,689	09-Jul-1998	
18	95E080	Method and Apparatus for Signal Quality Estimation in a Direct Sequence Spread Spectrum	Granted	09/348,491	06-Jan-2000	FOLEY	6,301,287	09-Oct-2001	
19	96E006	Ultra-Clean Voltage Power Supply Generator	Granted	08/892,444	14-Jul-1997	LYON	6,049,724	11-Apr-2000	
20	97RSS036	An LC-VCO Charge-Pump and Loop-Filter Architecture for Improved Noise-Immunity in Integrated Phase-Locked Loops	Granted	09/409,509	30-Sep-1999	MLCFG	6,281,758	28-Aug-2001	
21	97RSS053	Timing Estimation in Mobile Communication Systems Using Parabolic Interpolator	Granted	09/163,640	30-Sep-1998	HOWSM	6,219,345	17-Apr-2001	
22	97RSS060	A Method and an Apparatus for Positioning System Assisted Cellular Radiotelephone Handoff and Dropoff	Granted	09/025,962	19-Feb-1998	TKHR	6,327,471	04-Dec-2001	
23	97RSS061	Cellular Radiotelephone Having Answering Machine/Voice Memo Capability with Parameter-Based Speech Compression and Decompression	Granted	09/026,619	20-Feb-1998	TKHR	6,240,299	29-May-2001	
24	97RSS064	A Transistor Having a Novel Layout and an Emitter Having More Than One Feed Point	Granted	08/126,301	30-Jul-1998	TKHR	6,236,071	22-May-2001	
25	97RSS066	Voltage Upconverter for Portable Time Divisional Multiple Access Radio	Granted	09/047,242	24-Mar-1998	PG	6,078,167	20-Jun-2000	
26	97RSS100	Method and Apparatus for Automatic Gain Control With Improved Response Time and Stability	Granted	09/036,397	06-Mar-1998	PG	6,037,834	14-Mar-2000	
27	97RSS105	Universal Radio Architecture for Low-Tier Personal Communication System	Granted	08/348,359	30-Nov-1994	HOWSM	5,648,985	15-Jul-1997	PCSI P035US Exhibit 2

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Tab	Case Number	App Title	Status	App Number	File Date	Agent	Pat Number	Issue Date	COMMENT
28	97RSS107	Apparatus for and Method of Improving Efficiency of Transceivers in Radio Products	Granted	08/972,311	18-Nov-1997	TKHR	6,163,706	19-Dec-2000	
29	97RSS113	Multi-Layer Carrier Module for Power Amplifier Systems within a Digital Cellular Telephone	Granted	08/941,488	30-Sep-1997	AGSHF	6,236,271	22-May-2001	
30	97RSS116	Modulation Technique for Multi-Band Applications	Granted	09/044,281	19-Mar-1998	PG	6,005,443	21-Dec-1999	
31	97RSS118	RF Architecture for Cellular Dual Band Telephones	Granted	09/057,124	08-Apr-1998	TKHR	6,208,875	27-Mar-2001	
32	97RSS120	Front End Filter Circuitry for a Dual Band GSM/DCS Cellular Phone	Granted	09/036,258	06-Mar-1998	PG	6,125,271	26-Sep-2000	
33	97RSS122	Battery Management System With Current Measurement Across On-Resistance of Semiconductor Cutout Switch	Granted	08/940,630	30-Sep-1997	FOLEY	6,031,302	29-Feb-2000	
34	97RSS126	Dualband Power Amplifier Control Using A Single Power Amplifier Controller	Granted	08/965,843	07-Nov-1997	TKHR	6,216,012	10-Apr-2001	
35	97RSS128	Low Voltage Medium Power Class C Power Amplifier With Precise Gain Control	Granted	09/064,114	21-Apr-1998	TKHR	5,966,051	12-Oct-1999	
36	97RSS129	Non-Linear Constant Envelop Modulator and Transmit Architecture	Granted	09/040,225	13-Mar-1998	TKHR	6,078,628	20-Jun-2000	
37	97RSS151CON	Programmable Digital Modulator and Methods of Modulating Digital Data	Granted	08/330,577	27-Oct-1994	FSHRI	5,600,678	04-Feb-1997	PCSI P006US Exhibit 2
38	97RSS151	Programmable Digital Modulator and Methods of Modulating Digital Data	Granted	07/858,397	26-Mar-1992	FSHRI	5,420,887	30-May-1995	
39	97RSS154	Sample Interpolator and Method of Generating Additional Samples of a Sampled Waveform Using a Programmable Sample Divider	Granted	9/18,941	25-Aug-1997	FSHRI	5,937,010	10-Aug-1999	Continuation of Abandoned PCSI Exhibit 2 case
40	97RSS158	Near Direct Conversion Receiver and Method for Equalizing Amplitude and Phase Therein	Granted	08/521,568	30-Aug-1995	FSHRI	5,828,955	27-Oct-1998	PCSI P058US Exhibit 2

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Tab	Case Number	App Title	Status	App Number	File Date	Agent	Pat Number	Issue Date	COMMENT
41	97RSS160CON	Frame Structure Using Consecutive Slot Assignments for Mobile Communications	Granted	08/468,374	06-Jun-1995	FSHRI	5,710,762	20-Jan-1998	PCSI P020US1 Exhibit 2
42	97RSS160	Frame Structure Using Consecutive Slot Assignments for Mobile Communications	Granted	08/145,745	29-Oct-1993	FSHRI	5,444,696	22-Aug-1995	PCSI P020US Exhibit 2
43	97RSS162	Receiver With Filter Offset Correction	Granted	08/516,197	17-Aug-1995	FDML	5,757,864	26-May-1998	PCSI P045US Exhibit 2
44	97RSS163	Method and Apparatus for Minimizing Perceptible Impact on an Interrupted Call Prior to Hand-Off	Granted	08/692,552	06-Aug-1996	BHGL	6,259,916	10-Jul-2001	PCSI P068US Exhibit 2
45	97RSS167	Bipolar Analog Multipliers for Low Voltage Applications	Granted	08/485,088	07-Jun-1996		5,570,056	29-Oct-1996	PCSI P026US Exhibit 2
46	97RSS168	Dual Frequency Synthesis System	Granted	09/163,735	30-Sep-1998	BHGL	6,127,900	03-Oct-2000	
47	97RSS179	Retransmission Packet Capture System Within a Wireless Multiservice Communications Environment	Granted	08/923,722	04-Sep-1997	TKHR	6,145,108	07-Nov-2000	
48	97RSS179	Retransmission Packet Capture System Within a Wireless Multiservice Communications Environment	Granted	09/038,724	10-Mar-1998	PG	6,138,260	24-Oct-2000	
49	97RSS194	Using a Single Low-Noise Amplifier in a Multi-Band Wireless Station	Granted	09/164,168	30-Sep-1998	BHGL	6,134,427	17-Oct-2000	
50	97RSS200	Digital Phase Lock Loop Divider Cycling Method, Apparatus, and Communication System Incorporating the Same	Granted	09/160,884	25-Sep-1998	FOLEY	6,114,888	05-Sep-2000	
51	97RSS201	Dual Band Transmitter for a Cellular Phone Comprising a PLL	Granted	09/163,798	30-Sep-1998	KMOB	6,150,890	21-Nov-2000	
52	97RSS202	Transmitter Circuitry for a Cellular Phone	Granted	09/158,876	23-Sep-1998	KMOB	6,304,748	16-Oct-2001	
53	97RSS209	Stability and Enhanced Gain of Amplifiers Using Inductive Coupling	Granted	09/016,195	30-Jan-1998	KMOB	6,211,738	03-Apr-2001	
54	97RSS242	Frame Structure Using Consecutive Slot Assignments for Mobile Communications	Granted	145,745	29-Oct-1993	FSHRI	5,444,696	22-Aug-1995	

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55	97RSS291	Frequency Reference Compensation	Granted	08/110,611	24-Aug-1993		5,542,095	30-Jul-1996	PCSI P009US Exhibit 2
56	97RSS311	Modulator and Process for Minimizing Power Consumption and Communication System Employing Same	Granted	09/161,154	25-Sep-1998	FOLEY	6,263,027	17-Jul-2001	
57	97RSS312	Method and Apparatus for Improving Modulation Accuracy	Granted	09/103,418	24-Jun-1998	KMOB	6,268,818	31-Jul-2001	
58	97RSS323	Dual Band Cellular Phone With Two Power Amplifiers and Power Control Circuit Therefore	Granted	09/103,897	24-Jun-1998	KMOB	6,154,664	28-Nov-2000	
59	97RSS324	Cellular Phone With a Logarithmic Detector	Granted	09/103,899	24-Jun-1998	KMOB	6,163,709	19-Dec-2000	
60	97RSS325	Dual Band Cellular Phone With Two Power Amplifiers and a Current Detector for Monitoring the Consumed Power	Granted	09/103,898	24-Jun-1998	KMOB	6,151,509	21-Nov-2000	
61	97RSS343	Power Management for a Telephone System by Dynamically Adjusting Transmission Power	Granted	09/104,732	25-Jun-1998	KMOB	6,256,476	03-Jul-2001	
62	97RSS347 (WCD)	System and Method for Wireless Voice and Computer Communications	Granted	09/109,987	30-Jun-1998	KMOB	6,327,476	04-Dec-2001	
63	97RSS348	Multi-Functional Battery Management Module Operable in a Charging Mode and a Battery Pack Mode	Granted	09/060,425	14-Apr-1998	KMOB	6,100,670	08-Aug-2000	
64	97RSS361	Variable Gain Amplifier with Gain Linear with Control Voltage	Granted	09/163,885	30-Sep-1998	BHGL	6,124,761	26-Sep-2000	
65	97RSS393	High-Linearity, Low-Spread Variable Capacitance Array	Granted	09/081,542	19-May-1998	KMOB	6,181,218	30-Jan-2001	
66	97RSS450	Power Management System for a Mobile Station	Granted	08/959,588	29-Oct-1997	KMOB	6,044,069	28-Mar-2000	
67	97RSS451	Power Management System for a Mobile Unit by Intelligent Page Monitoring	Granted	09/056,572	07-Apr-1998	KMOB	6,240,288	29-May-2001	
68	97RSS458	Cellular Telephone	Granted	086,535	14-Apr-1998	FSHRI	D408,398	20-Apr-1999	

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Tab	Case Number	App Title	Status	App Number	File Date	Agent	Pat Number	Issue Date	COMMENT
69	97RSS462	Double Balance Differential Active Ring Mixer With Current Shared Active RF Input Balun	Granted	09/087,315	29-May-1998	FSHRI	6,057,714	02-May-2000	
70	97RSS464	Method and Apparatus for Enhanced Performance in a System Employing Convolutional Decoding	Granted	09/021,898	11-Feb-1998	KMOB	6,192,500	20-Feb-2001	
71	97RSS474	Amplifier Module With Two Power Amplifiers for Dual Band Cellular Phones	Granted	09/016,242	30-Jan-1998	KMOB	6,075,995	13-Jun-2000	
72	97RSS479	Method and Apparatus for Improving the Sensitivity of an RF Receiver at Certain Frequencies	Granted	09/153,008	11-Sep-1998	AGSHF	6,192,228	20-Feb-2001	
73	97RSS480	Integrated Battery Compartment and Hinge	Granted	09/073,725	07-May-1998	KMOB	6,219,257	17-Apr-2001	
74	97RSS495	Apparatus and Method for Implementing a Low-Noise Amplifier	Granted	09/201,643	30-Nov-1998	KMOB	6,275,687	14-Aug-2001	
75	97RSS497	Receiver for RF Signals	Granted	09/203,001	30-Nov-1998	KMOB	6,298,226	02-Oct-2001	
76	97RSS526	Method and Apparatus for Sharing Transmit Shaping Filters Among Phase Shifted Signals	Granted	09/164,428	30-Sep-1998	AGSHF	6,181,674	30-Jan-2001	
77	98RSS009	Phase Interpolated Fractional-N Frequency Synthesizer With On-Chip Tuning	Granted	09/108,947	01-Jul-1998	KMOB	6,064,272	16-May-2000	
78	98RSS014	A Compact and Fast Cubic Function Generator	Granted	09/148,568	04-Sep-1998	KMOB	6,160,429	12-Dec-2000	
79	98RSS015	Flexible Transfer Function Generator	Granted	09/144,404	31-Aug-1998	HOWSM	6,321,072	20-Nov-2001	
80	98RSS058	Intelligent Control of Receiver Linearity Based on Interference	Granted	09/160,613	24-Sep-1998	SNR	6,311,048	30-Oct-2001	
81	98RSS134	Method of Independently Creating and Using a Garbage Model for Improved Rejection in a Limited-Training Speaker-Dependent Speech Recognition System	Granted	09/134,177	14-Aug-1998	AKIN	6,223,155	24-Apr-2001	
82	98RSS178	System and Method for Dynamically Varying Operational Parameters of an Amplifier	Granted	09/222,686	29-Dec-1998	KMOB	6,327,462	04-Dec-2001	
83	98RSS202	Cooling System for Power Amplifier and Communication System Employing the Same	Granted	09/170,029	13-Oct-1998	FOLEY	6,134,110	17-Oct-2000	

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Tab	Case Number	App Title	Status	App Number	File Date	Agent	Pat Number	Issue Date	COMMENT
84	98RSS238	Phase/Frequency Detector with Time-Delayed Inputs in a Charge Pump Based Phase Locked Loop and a Method for Enhancing the Phase Locked Loop Gain	Granted	09/363,779	29-Jul-1999	FOLEY	6,147,561	14-Nov-2000	
85	98RSS255	Phase Lock Loop Used as Up Converter and for Reducing Phase Noise of an Output Signal	Granted	09/405,749	30-Sep-1999	FOLEY	6,255,912	03-Jul-2001	
86	98RSS259	Gated delay-locked loop for clock generation applications	Granted	09/302,755	30-Apr-1999	PROCO	6,208,183	27-Mar-2001	
87	98RSS261	source-switched or gate-switched charge pump having cascoded output	Granted	09/302,666	30-Apr-1999	LYON	6,160,432	12-Dec-2000	
88	98RSS267	Fully Integrated Broadband RF Voltage Amplifier with Enhanced Voltage Gain and Method	Granted	09/405,766	27-Sep-1999	FOLEY	6,265,944	24-Jul-2001	
89	98RSS268	Low Noise Low Power Charge Pump System for Phase Lock Loop	Granted	09/405,752	27-Sep-1999	FOLEY	6,215,363	10-Apr-2001	
90	98RSS271	System and Process for Shared Functional Block Communication Transceivers With GPS Capability	Granted	09/256,450	23-Feb-1999	TKHR	6,208,844	27-Mar-2001	
91	98RSS280	Power Amplifier Driver System for Wireless Handset	Granted	09/328,927	09-Jun-1999	HOWSM	6,339,361	15-Jan-2002	
92	98RSS285	Power Amplification Using A Direct-Upconverting Quadrature Mixer Topology	Granted	09/318,482	25-May-1999	BHGL	6,307,894	23-Oct-2001	
93	98RSS286	Envelope Peak and Trough Limiting to Improve Amplifier Efficiency and Distortion Characteristics	Granted	09/318,529	25-May-1999	BHGL	6,242,975	05-Jun-2001	
94	98RSS304	Phase-Locked Loop Having Temperature-Compensated Bandwidth Control	Granted	09/314,898	19-May-1999	LYON	6,211,743	03-Apr-2001	
95	98RSS307	Log-Domain Filter Having a Variable Dynamic Range Window	Granted	09/322,401	28-May-1999	LYON	6,262,623	17-Jul-2001	

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Tab	Case Number	App Title	Status	App Number	File Date	Agent	Pat Number	Issue Date	COMMENT
96	98RSS319	Six Inverting Amplifier Transconductance Stage and Methods for its Use	Granted	09/385,225	27-Aug-1999	TKHR	6,191,655	20-Feb-2001	PATENT
97	98RSS336	Method and Apparatus for Extending a VCO Tuning Range	Granted	09/498,378	03-Feb-2000	WLSKZ	6,204,734	20-Mar-2001	
98	99RSS005	A Method and Apparatus for Improving RF Contact Positioning in as RF Test Socket	Granted	09/360,586	26-Jul-1999	BHGL	6,227,878	08-May-2001	
99	99RSS015	Power Amplifier Operated as an Envelope Digital to Analog Converter with Digital Pre-Distortion	Granted	09/410,216	30-Sep-1999	AGSHF	6,255,906	03-Jul-2001	
100	99RSS025	System and Method For Variable Gain Coder-Decoder	Granted	09/378,325	20-Aug-1999	AGSHF	6,252,528	26-Jun-2001	
101	99RSS042	Differential Oscillator	Granted	09/386,957	25-Aug-1999	LYON	6,249,190	19-Jun-2001	
102	99RSS068	Peer-To-Peer Data Transfer Using Pre-Existing Caller ID Class FSK Signaling Infrastructure	Granted	09/328,048	08-Jun-1999	PROCO	6,304,642	16-Oct-2001	
103	99RSS220	Method and Apparatus for Code Error Correction	Granted	08/131,078	01-Oct-1993		5,491,700	13-Feb-1996	PCSI P013US Exhibit 2
104	99RSS354	Apparatus and Method for Increasing Data Transmission Rate Over Wireless Communication Systems Using Spectral Shaping	Granted	099,080	28-Jul-1993		5,386,590	31-Jan-1995	
105	99RSS355	Apparatus and Method For Increasing Data Transmission Rate Over Wireless Communication Systems Using Spectral Shaping	Granted	147,148	03-Nov-1993		5,507,033	09-Apr-1996	
106	99RSS356	Apparatus and Method for Compensating for Limiter Induced Non-Linear Distortion in a Wireless Data Communication System	Granted	198,085	17-Feb-1994	KMOB	5,533,048	02-Jul-1996	
107	99RSS357	Method of Internal Interference Cancellation in TDMA Receiver	Granted	09/495,993	01-Feb-2000	WLSKZ	6,259,752	10-Jul-2001	

Tab	Case Number	App Title	Status	App Number	File Date	Agent	Pat Number	Issue Date	COMMENT
108	97RSS372 (PTD)	Compensation Technique Using MOS Capacitance	Granted	09/163,789	30-Sep-1998	SNLWI	6,087,896	11-Jul-2000	
109	97RSS088 (PTD)	CMOS Electrostatic Discharge Protection Circuit With Minimal Loading for High Speed Circuit Applications	Granted	09/163,675	30-Sep-1998	UUM	6,292,046	18-Sep-2001	
110	95E117	Effectively Differential, Multiple Input OR/NOR Gate Architecture	Granted	08/752,016	19-Nov-1996		5,945,848	31-Aug-1999	
111	97RSS005	A System and Method for a Monolithic Directional Microphone Array	Granted	08/974,874	20-Nov-1997	SNLWI	6,192,134	20-Feb-2001	
112	97RSS006	Method and Apparatus for Sensing an Audio Signal That is Sensitive to the Audio Signal and Insensitive to Background Noise	Granted	08/920,846	29-Aug-1997	PG	6,072,882	06-Jun-2000	
113	97RSS103	Self-Test and Status Reporting System for Microcontroller-Controlled Devices	Granted	09/347,889	06-Jul-1999	KMOB	6,104,304	15-Aug-2000	
114	97RSS460	Convolution Decoding Terminated by an Error Detection Block Code with Distributed Parity Bits	Granted	09/021,896	11-Feb-1998	KMOB	6,199,190	06-Mar-2001	
115	98RSS114	Low-Voltage Dual-Modulus Prescaler Circuit Using Merged Pseudo-Differential Logic	Granted	09/163,862	30-Sep-1998	PROCO	6,157,693	05-Dec-2000	
116	98RSS258	Interlaced Master Slave ECL Flip Flop	Granted	09/405,964	30-Sep-1999	FOLEY	6,191,629	20-Feb-2001	
117	00CXT0105T	Planar HBT-FET Device	Granted	949,901	23-Sep-1992		5,250,826	05-Oct-1993	
118	83E050	Small Size, High Speed GaAs Data Latch	Granted	727,958	26-Apr-1985		4,707,808	17-Nov-1987	
119	00CXT0191W	Method and Apparatus for Dual Demodulation of Mobile Channel Signals	Granted	494,712	26-Jun-1995		5,517,530	14-May-1996	
120	95E082	Echo Canceling Method and Apparatus in a Communication Device	Granted	08/568,843	07-Dec-1995	AGSHF	5,933,494	03-Aug-1999	
121	97RSS161	Dual Source for Constant and PTAT Current	Granted	565,424	30-Nov-1995		5,774,013	30-Jun-1998	PCSI P046US Exhibit 2
122	95E062	Frequency Error Compensation for Direct Sequence Spread Spectrum Systems	Granted	08/568,095	06-Dec-1995	PG	5,732,111	24-Mar-1998	

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Tab	Case Number	App Title	Status	App Number	File Date	Agent	Pat Number	Issue Date	COMMENT
123	95E063	Frequency Acquisition Method for Direct Sequence Spread Spectrum System	Granted	09/447,538	10-Nov-1998	FOLEY	6,222,874	24-Apr-2001	
124	95E063	Frequency Acquisition Method for Direct Sequence Spread Spectrum System	Granted	08/568,058	06-Dec-1995	PG	5,799,034	25-Aug-1998	
125	95E089	Gain Imbalance Compensation for a Quadrature Receiver in a Cordless Direct Sequence Spread	Granted	08/568,210	06-Dec-1995	PG	5,930,286	27-Jul-1999	
126	95E089	Gain Imbalance Compensation for a Quadrature Receiver in a Cordless Direct Sequence Spread	Granted	09/325,109	03-Jun-1999	TKHR	6,307,902	23-Oct-2001	
127	97RSS297DIV	Frequency Controller and Method of Correcting Phase Estimates in a PSK Demodulator Using Frequency Control	Granted	08/487,455	07-Jun-1995	FSHRI	5,594,758	14-Jan-1997	PCSI P008US3 Exhibit 2
128	98RSS178	System and Method for Dynamically Varying Operational Parameters of an Amplifier	Granted	09/222,686	29-12-1998	KMOB	6,327,462	04-Dec-2001	
129	97RSS156DIV	Timing Recovery Controller and Method for Adjusting the Timing of Synchronizing Windows in a PSK Demodulator	Granted	08/472,125	07-Jun-1995		5,625,652	29-Apr-1997	PCSI P008US2 Exhibit 2
130	97RSS220	Phase Estimation and Synchronization Using a PSK Demodulator	Granted	07/999,210	31-Dec-1992		5,376,894	27-Dec-1994	PCSI P008US Exhibit 2
131	96E005 (PTD)	Pre-Quantization in Motion Compensated Videocoding	Granted	09/006,972	14-Jan-1998	FARJ	6,275,527	14-Aug-2001	
132	97RSS010 (PTD)	Method and Apparatus for Wireless Testing of Integrated Circuits	Granted	09/046,011	23-Mar-1998	TKHR	6,331,782	18-Dec-2001	
133	95E074	CID Demodulator for DCT	Granted	08/569,489	07-Dec-1995	Akin	5,828,708	27-Oct-1998	
134	97RSS091	Multiple Antenna Home Base for Digital Cordless Telephones	Granted	08/573,128	15-Dec-1995	FSHRI	5,661,762	26-Aug-1997	PHS
135	97RSS104	Multiple Antenna Home Base for Digital Cordless Telephones	Granted	08/699,217	19-Aug-1996		5,648,992	15-Jul-1997	PHS

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Tab	Case Number	App Title	Status	App Number	File Date	Agent	Pat Number	Issue Date	COMMENT
136	97RSS155	Unique Word Detector and Method for Detecting a Unique Word with one of Several Windows Offset Time	Granted	08/472,121	07-Jun-1995		5,524,127	04-Jun-1996	PHS
137	97RSS155	Phase detector and a method determining the phase of received PSK symbols	Granted	08/289,061	11-Aug-1994		5,610,949	11-Mar-1997	PHS
138	97RSS157	Method and Apparatus of Frequency Generation for use With Digital Cordless Telephone	Granted	08/013,625	04-Feb-1993		5,722,040	24-Feb-1998	PHS
139	97RSS159	ADPCM Coding and Decoding Techniques for Personal Communication Systems	Granted	08/191,609	04-Feb-1994		5,615,222	25-Mar-1997	PHS
140	97RSS165	Multiple Antenna Home Base for Digital Cordless Telephones	Granted	08/573,287	15-Dec-1995		5,696,798	09-Dec-1997	PHS
141	97RSS295	Method and Apparatus for Frequency Synthesization in Digital Cordless Telephones	Granted	08/131,210	01-Oct-1993	FSHRI	5,526,527	11-Jun-1996	PHS
142	97RSS454	Avoiding Interference From a Potentially Interfering Transmitter in a Wireless Communication System	Granted	09/163,972	30-Sep-1998	AGSHF	6,256,477	03-Jul-2001	PHS

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REEL: 13240 FRAME: 0871

Tab	Case Number	App Title	Status	App Number	File Date	Agent	Pat Number	Issue Date	COMMENT
	00CXT0143W	Soft-Decision Classifier	Granted	988,364	09-Dec-1992	BOE	5,361,379	01-Nov-1994	
	00CXT0095W	Resistive Planar Ring Double-Balanced Mixer	Granted	576,755	04-Sep-1990	BOE	5,125,111	23-Jun-1992	
	00CXT0096N (PTD)	Large Array MMIC Feedthrough	Granted	540,964	08-Jun-1990	BOE	5,132,648	21-Jul-1992	
	00CXT0098T	Stress-Free Chemo-Mechanical Polishing Agent for II-VI Compound Semiconductor Single Crystals and Method of Polishing	Granted	787,154	04-Nov-1991	BOE	5,157,876	27-Oct-1992	
	00CXT0101T	Technique for Doping MOCVD Grown Crystalline Materials Using Free Radical Transport of the Copant Species	Granted	656,940	19-Feb-1991	BOE	5,202,283	13-Apr-1993	
	00CXT0108T	Technique for Doping Mercury Cadmium Telluride MOCVD Grown Crystalline Materials Using Free Radical Transport of Elemental Indium and Apparatus Therefor	Granted	657,692	19-Feb-1991	BOE	5,306,660	26-Apr-1994	
	00CXT0113W	Moving Vehicle Classifier with Nonlinear Mapper	Granted	061,879	17-May-1993	BOE	5,337,257	09-Aug-1994	
	00CXT0084T	Isolated Low Power Thyristor Gate Drive Circuit	Granted	740,465	03-Jun-1985	BOE	4,631,472	23-Dec-1986	
	00CXT0133W	Large Time-Bandwidth Chirp Pulse Generator	Granted	102,924	06-Aug-1993	BOE	5,428,361	27-Jun-1995	
	00CXT0140N	Moving Vehicle Classifier With Iterative Deconvolver Estimator	Granted	76,077	11-Jun-1993	BOE	5,367,475	22-Nov-1994	

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Tab	Case Number	App Title	Status	App Number	File Date	Agent	Pat Number	Issue Date	COMMENT
1	97RSS403 (PTD)	Semiconductor Device with Bonding Anchors in Build-up Layers	Granted	09/373,303	12-Aug-1999	TKHR	6,252,178	26-Jun-2001	PACKAGING
2	98RSS246 (PTD)	Leadless Chip Carrier Design and Structure	Granted	09/252,851	17-Feb-1999	FARJ	6,191,477	20-Feb-2001	PACKAGING
3	99RSS121 (PTD)	A new ground and power design for top metal layer of wire bonded mcm substrates to minimize their respective inductance and therefore noise contribution	Granted	09/358,579	21-Jul-1999	SNLWI	6,274,925	14-Aug-2001	PACKAGING
4	97RSS459RCE (PTD)	Single Paddle Having A Semiconductor Device and a Passive Electronic Component	Granted	09/083,474	22-May-1998	Snell	6,335,564	01-Jan-2002	PACKAGING
5	97RSS459 (PTD)	Leadframe Having a Paddle With an Isolated Area	Granted	073,779	06-May-1998	TKHR	6,385,478	07-May-2002	PACKAGING
6	99RSS043CIP (PTD)	Cooling System for Pulsed Power Electronics	Granted	09/493,591	31-Jan-2000	FARJ	6,261,871	17-Jul-2001	PACKAGING
7	99RSS043DIV (PTD)	Temperature Stabilization in Flip Chip Technology	Granted	09/799,446	05-Mar-2001	FARJ	6,359,343	19-Mar-2002	PACKAGING
8	99RSS115	Multiple Chip Module with Integrated RF Capabilities	Granted	09/239,617	29-Jan-1999	FARJ	6,377,464	23-Apr-2002	PACKAGING
		One Bit Digital Quadrature Vector Modulator	Granted	09/135,243	17-Aug-1998		6,339,621	15-Jan-2002	
		Method and Apparatus for Minimizing Mismatch in A Complex Filter	Granted	09/252,381	18-Feb-1999		6,329,939	11-Dec-2001	
		An Amplifier for Continuous High Grain, Narrowband Signal Amplification	Granted	09/209,051	09-Dec-1998		6,057,735	02-May-2000	
		A Fractional-N Divider Using a Delta-Sigma Modulator	Granted	09/281,854	31-03-1999		6,236,703	22-May-2001	
		Method and Apparatus for Dynamically Generating Multiple Level Decision Thresholds of an M-ary Coded Signal	Granted	09/676,235	29-Sep-2000		6,317,062	13-Nov-2001	
		Backfire Antenna Feeding	Granted	653,457	24-Sep-1984		4,673,945	16-Jun-1987	
		Apparatus and Process for Firing Ceramics	Granted	149,174	27-Jan-1988		4,833,302	23-May-1989	

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Tab	Case Number	App Title	Status	App Number	File Date	Agent	Pat Number	Issue Date	COMMENT
		Apparatus and Process for Firing Ceramics	Granted	304,292	31-Jan-1989		4,898,534	06-Feb-1990	
		Dense Ceramic Alloys and Process of Making Same	Granted	049,984	15-May-1987		4,942,146	17-Jul-1990	

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US Pending Patent Application filed with USPTO

Tab	Case Number	App Title	Status	App Number	File Date	Agent	COMMENT
	00CXT0018W	VCO Tuning Curve Compensated Charge Pump Current Synthesizer	Pending	09/675,889	29-Sep-2000	WLSKZ	
	00CXT0040W	Power amplifier with provisions for varying operating voltage based upon power amplifier output power	Pending	09/792,660	23-Feb-2001	TKHR	
	00CXT0045W	Multi-Level Power Amplifier	Pending	09/880,286	13-Jun-2001	TKHR	
	00CXT0070W	IC Capacitor Trimming Using Fuses	Pending	10/121,366	11-Apr-2002	POLIT	
	00CXT0072W	Longitudinally-Coupled Saw Filter Enhanced Frequency Selectivity	Pending	09/545,232	07-Apr-2000	HOWSM	
	00CXT0263W	System for Closed Loop Power Control Using a Linear or a Non-Linear Power Amplifier	Pending	09/650,987	30-Aug-2000	TKHR	
	00CXT0308W	Transmitter Architecture having a Secondary Phase-Error Correction Loop including an Amplitude Reconstruction System	Pending	09/650,831	30-Aug-2000	TKHR	
	00CXT0310W	System for Allowing a TDMA/CDMA Portable Transceiver to Operate with Closed Loop Power Control	Pending	09/665,820	20-Sep-2000	TKHR	
	00CXT0323W	Multiple Step Switched Translation Loop for Power Amplifier Feedback Control	Pending	09/666,698	21-Sep-2000	TKHR	
	00CXT0325W	Dual-Feedback Translation Loop	Pending	09/666,577	21-Sep-2000	TKHR	
	00CXT0350W	Dynamically Biased Power Amplifiers	Pending	09/818,285	27-Mar-2001	TKHR	
	00CXT0377W	Digitally Controlled Bias Circuit for Amplifiers	Pending	09/817,668	26-Mar-2001	TKHR	
	00CXT0464W	Amplification Control Scheme for a Receiver	Pending	09/823,488	30-Mar-2001	BHGL	
	00CXT0517W	Terminal Arrangement for an Electrical Device	Pending	09/677,162	02-Oct-2000	TKHR	
	00CXT0521W	A Charge Pump Having Reduced Switching Noise	Pending	09/718,963	21-Nov-2000	TKHR	
	00CXT0523W	Fast Settling Charge Pump	Pending	09/718,615	21-Nov-2000	TKHR	

Tab	Case Number	App Title	Status	App Number	File Date	Agent	COMMENT
	00CXT0526W	Fast-Acquisition Phase-Locked Loop	Pending	10/032,848	01-Nov-2001	MLCFG	
	00CXT0608W	Power Amplifier Circuit for Providing Constant Bias Current Over a Wide Temperature Range	Pending	09/722,772	27-Nov-2000	TKHR	
	00CXT0618W	Current Mirror Compensation System for Power Amplifiers	Pending	09/772,717	30-Jan-2001	TKHR	
	00CXT0641W	Integrated on Chip VCO Calibration Algorithm to Extend VCO Tuning Range	Pending	10/114,182	02-Apr-2002	MLCFG	
	00CXT0656W	Constant Current Biasing Circuit for Linear Power Amplifiers	Pending	09/693,398	21-Oct-2000	SNR	
	00CXT0656W	Configurable Power Amplifier and Bias Control	Pending	09/971,523	05-Oct-2001	TKHR	
	00CXT0682W	Harmonic Cancellation Mixers	Pending	09/823,314	30-Mar-2001	TKHR	
	00CXT0718W	Bias Enhancement Circuit for Linear Amplifiers	Pending	09/715,871	15-Nov-2000	SNR	
	00CXT0733W	Continuous Closed-Loop Power Control System Including Modulation Injection in a Wireless Transceiver Power Amplifier	Pending	09/704,930	02-Nov-2000	TKHR	
	00CXT0816W	Frequency Plan	Pending	09/823,680	30-Mar-2001	TKHR	
	01CXT0011W	Low Voltage Integrated Bandgap Reference for an HBT Linear Power Amplifier	Pending	10/135,490	30-Apr-2002	SNR	
	01CXT0014W	Closed Loop Power Amplifier Control	Pending	60/280,709	30-Mar-2001	SNR	
	01CXT0018W	Doherty Bias Circuit for Dynamically Compensating for Environmental Variations	Pending	09/951,788	10-Sep-2001	SNR	
	01CXT0019W	Dual Mode PA Having a Common Controller	Pending	10/137,718	30-Apr-2002	SNR	
	01CXT0149W	Systems for Controlling the Frequency of an Oscillator	Pending	09/823,316	30-Mar-2001	TKHR	
	01CXT0176W	System for Controlling the Amplitude of an Oscillator	Pending	09/823,285	30-Mar-2001	TKHR	
	01CXT0179W	Low Voltage Interface	Pending	09/823,681	30-Mar-2001	TKHR	

Tab	Case Number	App Title	Status	App Number	File Date	Agent	COMMENT
	01CXT0180W	Interference Reduction for Direct Conversion Receivers	Pending	09/823,313	30-Mar-2001	TKHR	
	01CXT0181W	Switched Capacitor for Analog Integrated Circuits	Pending	09/823,679	30-Mar-2001	TKHR	
	01CXT0201W	Method & Apparatus Multipath Signal Detection, Identification, and Monitoring for W-CDMA	Pending	60/275,032	12-Mar-2001	TKHR	
	01CXT0202W	Method & Apparatus for Spread Spectrum Radio Signal Recovery in Wideband Spread Communication Systems	Pending	60/275,192	12-Mar-2001	TKHR	
	01CXT0235W	A Stable Epitaxial Emitter Ballast for Heterojunction Bipolar Transistors (HBT's) by Modulated Emitter Cap Doping Profile	Pending	10/115,317	03-Apr-2002	FARJ	
	01CXT0341T (PTD)	A Low Current and High Performance BIFET Low Noise Amplifier (LNA)	Pending	10/057,098	23-Jan-2002	FARJ	
	95E080	Method and Apparatus for Signal Quality Estimation in a Direct Sequence Spread Spectrum...	Pending	568,330	06-Dec-1995	FOLEY	
	95E082	Echo Canceling Method and Apparatus in a Communication Device	Pending	09/220,123	23-Dec-1998	AGSHF	
	95E088	12 Chip Coded Spread Spectrum Modulation for Direct Conversion Radio Architectures in a Digital Cordless Telephone	Pending	08/568,047	06-Dec-1995		
	96E085	Intermediate Frequency Amplifier Circuit for Use in Receive and Transmit Modes	Pending	08/752,767	20-Nov-1996	FOLEY	
	97RSS006	Method and Apparatus for Sensing an Audio Signal That is Sensitive to the Audio Signal and Insensitive to Background Noise	Pending	09/491,726	27-Jan-2000	TKHR	
	97RSS057	Multiple Half-Burst Phase Rotation for High Frequency Demodulation	Pending	09/164,534	30-Sep-1998	HOWSM	
	97RSS063	Power Amplifier Saturation Prevention Method, Apparatus and Communication System Incorporating the Same	Pending	09/152,439	14-Sep-1998	FOLEY	
	97RSS068	Device and Process for Coupling Multi-Band Transmitters and Receivers and Communication System Employing Same	Pending	09/160,677	11-Oct-2000	FOLEY	
	97RSS069	Using a Low Frequency Timer to Restore Timing to a High Frequency Timer	Pending	09/164,432	30-Sep-1998	TKHR	

Tab	Case Number	App Title	Status	App No	File Date	Agent	COMMENT
	97RSS073	A System and Method for Extending the Range of a Base Unit	Pending	09/072,198	31-Jul-2000	TKHR	
	97RSS101	Automatic GSM Mobile Power	Pending	09/161,611	25-Sep-1998	FOLEY	
	97RSS107	Apparatus for and Method of Improving Efficiency of Transceivers in Radio Products	Pending	09/672,235	27-Sep-2000	TKHR	
	97RSS108	Cellular Telephone Keypad/Acoustic Isolation Device/LCD	Pending	09/408,966	29-Sep-1999	AGSHF	
	97RSS115	Dual Mode Phone Architecture Utilizing a Single Transmit-Receive Switch	Pending	09/013,235	26-Jan-1998	WLSKZ	
	97RSS118CIP (WCD)	RF Architecture for Cellular Dual Band Telephones	Pending	09/386,257	31-Aug-1999	TKHR	
	97RSS124	Method and System for Efficiently Transmitting Energy from an RF Device	Pending	09/361,865	27-Jul-1999	TKHR	
	97RSS125	Wide Frequency Range Couplers and Detectors for Power Detection in Multiple Frequency Band Systems	Pending	09/081,702	20-May-1998	TKHR	
	97RSS127	Integrated Power Management Module	Pending	09/060,426	14-Apr-1998	TKHR	
	97RSS178	System and Method for Receiving A Signal	Pending	09/409,484	30-Sep-1999	AGSHF	
	97RSS178/1	System and Method for Receiving A Signal	Pending	10/033,203	26-Dec-2001	AGSHF	
	97RSS203	Device, System and Method for Low Noise Radio Frequency Transmission	Pending	09/160,690	25-Sep-1998	FOLEY	
	97RSS205	Device and Process for Coupling Multi-Band Transmitters and Receivers and Communication System Employing Same	Pending	09/160,646	25-Sep-1998	FOLEY	
	97RSS206	System and Process for Shared Frequency Source Multi-Band Transmitters and Receivers	Pending	09/203,645	01-Dec-1998	FOLEY	
	97RSS329	Switchable High-Low Side Mixer for the Translational IC for Dual Mode Application	Pending	09/295,036	20-Apr-1999	KMOB	
	97RSS331	First Party Signalling for Call Waiting Calling Number Identification (CWCID) System	Pending	08/923,447	04-Sep-1997	AGSHF	

Tab	Case Number	App Title	Status	App No	File Date	Agent	COMMENT
	97RSS336	Direct Conversion Time Division Duplex, Radio, Direct Sequence Spread Spectrum Cordless Telephone	Pending	09/107,733	30-Jun-1998	KMOB	
	97RSS338	Techniques to Increase Data Transmission Rate of Spread Spectrum Communications Systems	Pending	09/325,107	03-Jun-1999	FOLEY	
	97RSS347	System and Method for Wireless Voice and Computer Communications	Pending	09/300,582	27-Apr-1999	AGSHF	
	97RSS347	System and Method for Wireless Voice and Computer Communications	Pending	09/974,769	09-Oct-2001	KMOB	
	97RSS362	Variable Gain Amplifier with High Linearity and Low Noise	Pending	09/163,892	30-Sep-1998	BHGL	
	97RSS371	Method for Programming a Radio Transceiver	Pending	09/410,217	30-Sep-1999	AGSHF	
	97RSS392	Adaptive Wireless Communication Receiver	Pending	09/163,797	30-Sep-1998	TKHR	
	97RSS449	Traffic Channel Quality Estimation from a Digital Control Channel	Pending	09/046,060	23-Mar-1998	KMOB	
	97RSS450	Power Management System for a Mobile Station	Pending	09/499,911	08-Feb-2000	KMOB	
	97RSS460	Convolution Decoding Terminated by an Error Detection Block Code with Distributed Parity Bits	Published	09/761,259	16-Jan-2001	KMOB	
	97RSS483	External Connector and Battery Extension Pack for a Portable Communication Device	Pending	09/137,194	20-Aug-1998	KMOB	
	97RSS494	Power Management System for a Mobile Unit by Reduced Neighbor Cell Scanning	Pending	09/084,534	26-May-1998	KMOB	
	97RSS503	Full-Duplex Speakerphone With Wireless Microphone	Pending	09/144,842	31-Aug-1998	AGSHF	
	97RSS518	Turbo Decoding of Trellis-Coded Modulations	Pending	09/410,220	30-Sep-1999	AGSHF	
	98RSS014	A Compact and Fast Cubic Function Generator	Pending	09/706,483	03-Nov-2000	KMOB	

Tab	Case Number	App Title	Status	App No	File Date	Agent	COMMENT
	98RSS024	Method of and Apparatus for Adaptation of an Echo Cancellor in a System With Multitasking	Pending	09/128,362	03-Aug-1998	KMOB	
	98RSS031	A Method and Apparatus for Dynamically Switching Between Speech Coding Techniques	Pending	09/153,631	15-Sep-1998	KMOB	
	98RSS064	System and Method for Providing a Trap and Patch Function to Low Power, Cost Conscious, and Space Constrained Applications	Pending	09/232,881	15-Jan-1999	HOWSM	
	98RSS069	System and Method for Communication Parameter Determination	Pending	09/157,209	18-Sep-1998	HOWSM	
	98RSS072	Apparatus and Method for Improving Power Control Loop Linearity	Pending	09/161,014	25-Sep-1998	HOWSM	
	98RSS088	Multi-Line Recording Device Having Reduced Processing and Storage Requirements	Pending	09/163,263	29-Sep-1998	LYON	
	98RSS097	Wireless Communications Device Allowing a Soft Handoff Procedure in a Mobile Communications System	Pending	09/342,165	28-Jun-1999	KMOB	
	98RSS112	Dynamic Range Reduction Circuitry for a Digital Communications Receiver	Pending	09/159,328	23-Sep-1998	PROCO	
	98RSS121	Frequency Hopping Spread Spectrum Modulation and Direct Sequence Spread Spectrum Modulation Cordless Telephone	Pending	09/137,198	20-Aug-1998	KMOB	
	98RSS165	A Method to Generate a Secure Wireless Link Between a Handset and Basestation in a Cordless Phone System Without Any Wired Connection ...	Pending	09/216,380	18-Dec-1998	KMOB	
	98RSS177	Method and Apparatus for Saving Power During Punctured Transmission of Mobile Communications	Pending	09/205,523	03-Dec-1998	KMOB	
	98RSS179	System and Method for Selecting Amplifiers in a Communications Device	Pending	09/222,063	29-Dec-1998	KMOB	
	98RSS180	System and Method for Selectively Interconnecting Amplifiers in a Communications Device	Pending	09/222,672	29-Dec-1998	KMOB	
	98RSS180	System and Method for Selectively Interconnecting Amplifiers in a Communications Device	Pending	09/222,672	23-Oct-2001	KMOB	
	98RSS189	Secondary Automatic Gain Control Loops for Direct Conversion CDMA Receivers	Pending	09/382,882	25-Aug-1999	KMOB	

Tab	Case Number	App Title	Status	App No	File Date	Agent	COMMENT
	98RSS201	System and Process for Shared Functional Block CDMA and GSM Communication Transceivers	Pending	09/298,315	23-Apr-1999	FOLEY	
	98RSS207	Method and System Which Uses Sound Wave Based Communication to Generate A Secure Wireless Link Between A Handset and Base Station	Pending	09/216,086	18-Dec-1998	KMOB	
	98RSS257	Programmable relaxation oscillator	Pending	09/302,754	30-Apr-1999	PROCO	
	98RSS276	System and Method for Amplifying a Cellular Radio Signal	Pending	09/408,754	30-Sep-1999	AGSHF	
	98RSS280	Power Amplifier Driver System for Wireless Handset	Pending	09/328,927	09-Jun-1999	HOWSM	
	98RSS283	Method and Apparatus for Filter Selection From Frequency Synthesizer	Pending	09/392,825	09-Sep-1999	FOLEY	
	98RSS291	Mixer Circuit with On-Chip Transformer	Pending	09/371,311	10-Aug-1999	KMOB	
	98RSS321	Dual Tune Input-Integrated VCO on a Chip	Pending	09/706,921	06-Nov-2000	WLSKZ	
	98RSS347	Performance Improvement of Internet Protocols Over Wireless Connections	Pending	09/375,607	17-Aug-1999	LYON	
	98RSS350	Programmable Frequency Divider	Pending	09/370,099	06-Aug-1999	HOWSM	
	98RSS350	Frequency Divider with Low Harmonics	Pending	09/821,833	30-Mar-2001	TKHR	
	98RSS351	Packaging of Surface Acoustic Wave (SAW) Filters on a Multi Chip Module	Pending	09/455,108	06-Dec-1999	AGSHF	
	98RSS396	Multi-Band Transceiver Having Multi-Slot Capability	Pending	09/387,038	31-Aug-1999	PROCO	
	99RSS012	System and Method for Cordless Telephonic Communication	Pending	09/756,039	05-Jan-2001	PROCO	
	99RSS025	System and Method For Variable Gain Coder-Decoder	Pending	09/845,840	30-Apr-2001	AGSHF	
	99RSS030	Multi-Band Filter System For Wireless Communication Receiver	Pending	09/330,646	11-Jun-1999	PROCO	

Tab	Case Number	App Title	Status	App No	File Date	Agent	COMMENT
	99RSS032	Differential Oscillator	Pending	09/675,239	29-Sep-2000	WLSKZ	
	99RSS037	System and Method for Receiving Analog and Digital Signals	Pending	09/383,122	25-Aug-1999	AGSHF	
	99RSS057	A Method to Combine the Detection of Stutter Dial Tone and VMWI FSK Signals Integrated Within a Telephone	Pending	09/299,202	23-Apr-1999	LYON	
	99RSS065	Direct Conversion Receiver	Pending	09/260,919	02-Mar-1999	HOWSM	
	99RSS065	Direct Conversion Receiver	Pending	09/386,865	31-Aug-1999	HOWSM	
	99RSS069	Peer-to-Peer Data Transfer Using Pre-existing Caller ID Class FSK Signaling Infrastructures	Pending	09/363,989	16-Jul-1999	PROCO	
	99RSS077	Local Area Internet Radio Receiver/Transmitter	Pending	09/407,149	28-Sep-1999	TKHR	
	99RSS078	System for Controlling a Class D Amplifier	Pending	09/814,196	21-Mar-2001	FOLEY	
	99RSS082	System and Process for Supporting Multiple Wireless Standards With a Single Circuit Architecture	Pending	09/410,136	30-Sep-1999	FOLEY	
	99RSS083	System for Using Adaptive Circuitry To Improve Performance and Provide Linearity and Dynamic Range on Demand	Pending	09/881,932	15-Jun-2001	FOLEY	
	99RSS085	Avoiding Interference from a Potentially Interfering Transmitter in a Wireless Communication	Pending	09/394,189	13-Sep-1999	AGSHF	
	99RSS085	Wireless Communications System Utilizing Directional Wireless Communication Device	Pending	09/821,110	29-Mar-2001	AGSHF	
	99RSS086	Cellular Handset with Adjustable Analog to Digital Conversion	Pending	09/410,205	30-Sep-1999	AGSHF	
	99RSS096	preprocessor and related frequency translator	Pending	09/261,056	02-Mar-1999	HOWSM	
	99RSS096	preprocessor and related frequency translator	Pending	09/386,956	27-Aug-1999	HOWSM	

Tab	Case Number	App Title	Status	App No	File Date	Agent	COMMENT
	99RSS102	Direct Sequence Spread Spectrum System with Enhanced Forward Error Correction Code Feature	Pending	09/427,041	19-Oct-1999	HOWSM	
	99RSS116	System and Method for Achieving Wireless Communications Coverage in a Local Area	Pending	09/409,297	29-Sep-1999	LYON	
	99RSS130	Hands-Free Activation of a Personal Communication Device	Pending	09/398,909	15-Sep-1999	LYON	
	99RSS136	Simple Dual Band Multi Time Slot Receiver Architecture	Pending	09/392,355	08-Sep-1999	PROCO	
	99RSS138	System of and Method for Compensating a Baseband Signal to Reduce Third Order Modulation Distortion	Pending	09/515,538	29-Feb-2000	HOWSM	
	99RSS161	A Novel Technique for Generation of Phase/Frequency Modulated Signals	Pending	09/398,911	14-Sep-1999	PROCO	
	99RSS172	A Balun Circuit for Combining Differential Power Amplifier Outputs	Pending	09/386,863	31-Aug-1999	HOWSM	
	99RSS174	A Gmc Filter and Method for Suppressing Unwanted Signals Introduced by the Filter	Pending	09/663,848	18-Sep-2000	WLSKZ	
	99RSS199	Method and Apparatus for Multiple Phase Splitting for Dual Band IQ Subharmonic Mixer	Pending	09/506,302	17-Feb-2000	WLSKZ	
	99RSS213	Dynamically Varying Linearity System for an RF Front-End of a Communication Device	Pending	09/811,082	16-Mar-2001	SNR	
	99RSS232	Smart Current System for Dynamically Varying the Operating current of a Frequency Source in a Receiver	Pending	09/793,744	26-Feb-2001	SNR	
	99RSS297	System of and Method for Reducing or Eliminating the Unwanted Sideband in the Output of a Transmitter Comprising a Quadrature Modulator Followed by a Translational Loop	Pending	09/514,501	29-Feb-2000	HOWSM	
	99RSS301	DMA Channel for High-Speed Asynchronous Data Transfer	Pending	09/550,852	17-Apr-2000	AGSHF	
	99RSS305	Doherty Power Amplifier With Integrated Quarter Wave Transformer/Combiner Circuit	Pending	09/761,100	16-Jan-2001	HOWSM	
	99RSS310	System of and Method for Reducing or Eliminating the Unwanted Sideband in a Signal Derived from the Output of a Quadrature Modulator	Pending	09/515,633	29-Feb-2000	HOWSM	

Tab	Case Number	App Title	Status	App No	File Date	Agent	COMMENT
	99RSS313	System for Associating User Selectable Information in Wireless Devices	Pending	09/842,601	26-Apr-2001	FARJ	
	99RSS316	Power Amplifier Saturation Detection and Compensation	Pending	09/651,801	30-Aug-2000	HOWSM	
	99RSS358	Low-Power Method of Interference Cancellation in GSM Receiver	Pending	09/634,081	08-Aug-2000	WLSKZ	
	99RSS359	Signal Detector With Echo Cancellation	Pending	09/792,816	23-Feb-2001	WEI	
	99RSS386	High Efficiency Multiple Power Level Amplifier	Pending	09/686,440	10-Oct-2000	TKHR	
	99RSS397	Non-Linear Transistor Circuits with Thermal Stability	Pending	09/871,517	31-May-2001	TKHR	
	99RSS404	System for Using a Local Wireless Network to Control a Device Within Range of the Network	Pending	09/658,729	11-Sep-2000	LYON	
	99RSS405	System For Eight Phase 45 Degree Polyphase Filter With Amplitude Matching	Pending	09/666,501	18-Sep-2000	WLSKZ	
	99RSS406	Polyphase Tuning for Phase Calibration	Pending	09/823,299	30-Mar-2001	TKHR	
	99RSS410	Stacked Core Half-LO Mixer	Pending	09/668,879	25-Sep-2000	WLSKZ	
	99RSS422	Temperature Compensation Module	Pending	09/712,771	13-Nov-2000	WEI	
	99RSS426	Trap and Patch System for Virtual Replacement of Defective Volatile Memory Cells	Pending	09/671,401	27-Sep-2000	GBC	
	99RSS429	Zero-Overhead Symbol Rate Adaptation System for QVSF Code	Pending	09/718,985	22-Nov-2000	GBC	
	99RSS461	Programmable Silent Ringing System for Communication Systems	Pending	09/650,543	30-Aug-2000	GBC	
	99RSS468	System and Apparatus for a Direct Conversion Receiver and Transmitter	Pending	09/621,407	21-Jul-2000	AGSHF	

Tab	Case Number	App Title	Status	App No	File Date	Agent	COMMENT
	99RSS479	Even Order Non-Linearity Correction Feedback for Gilbert Style Mixers	Pending	09/811,133	16-Mar-2001	SNR	
	99RSS497	Adaptive Configurable Demodulation System With Multiple Operating Modes	Pending	09/710,764	08-Nov-2000	HOWSM	
	99RSS498	Digital Phase/Frequency Detector	Pending	09/799,822	05-Mar-2001	HOWSM	
	99RSS500	Burst Detector	Pending	09/735,369	12-Dec-2000	HOWSM	
	99RSS504	Variable-Slope Variable-Gain Amplifier	Pending	09/686,669	11-Oct-2000	TKHR	
	97RSS010 (PTD)	Methods for Wireless Testing of Integrated Circuits	Pending	09/764,689	16-Jan-2001	TKHR	
	98RSS266 (PTD)	Electrostatic Discharge Protection Circuit	Pending	09/738,127	15-Dec-2000	TKHR	
	00CXT0290T (PTD)	Improved Transformer Comprising Stacked Inductors	Pending	09/797,307	01-Mar-2001	FARJ	
	00CXT0335T (PTD)	On-Chip Transformers	Pending	09/779,402	08-Feb-2001	FARJ	
	00CXT0622W	Systems for Testing Integrated Circuits	Pending	09/822,920	30-Mar-2001	TKHR	
	97RSS064 CON	A Transistor Having a Novel Layout and an Emitter Having More Than One Feed Point	Pending	09/687,381	13-Oct-2000	TKHR	
	97RSS064 CIP	Transistor Layout	Pending	09/861,921	21-May-2001	TKHR	
	97RSS313	Method and Apparatus for Detecting and Correcting Errors Using Cyclic Redundancy Check	Pending	09/103,421	24-Jun-1998	KMOB	
	97RSS465	Envelope Feedforward Technique with Power Control for Efficient Linear RF Power Amplification	Pending	09/108,628	01-Jul-1998	KMOB	
	98RSS275	RF Transmitter with Extended Efficient Power Control Range	Pending	09/482,121	11-Jan-2000	BHGL	
	99RSS013	RF Transmitter with Extended Efficient Power Control Range	Pending	09/481,094	11-Jan-2000	JAQA	

Tab	Case Number	App Title	Status	App No	File Date	Agent	COMMENT
	99RSS133	Apparatus and Method for Connecting a Cellular Telephone to a Universal Serial Bus	Pending	09/312,064	13-May-1999	LYON	
	99RSS339 (PTD)	Electrical Contact for Compound Semiconductor Device and Method For Forming Same	Pending	09/675,023	28-Sept-2000	TKHR	
	99RSS385 (PTD)	Electrical Contact for Compound Semiconductor Device & Method for Forming Same	Pending	09/580,323	26-May-2000	TKHR	
	00CXT0289T (PTD)	Modified HBT Collector Design for Increased Robustness	Pending	10/034,880	26-Dec-2001	FARJ	
	99RSS143 (PTD)	Electrostatic Discharge Protection Circuit	Pending	09/519,214	3-Mar-2001	TKHR	
	99RSS081 (PID)	Critical Path Adaptive Power Control	Pending	09/814,921	22-Mar-2001	FOLEY	
	97RSS475	Polarization-Adaptive Antenna Transmit Diversity System	Pending	09/103,417	24-Jun-1998	KMOB	
	97RSS477	Using Channel Loading Statistics to Determine Whether to Search for a New Channel in a Wireless Communication System	Pending	09/201,076	30-Nov-1998	AGSHF	
	98RSS173	Muting Method for ADPCM Coded Speech Signal Without Performance Critical Threshold Comparisons	Pending	09/234,243	20-Jan-1999	LYON	
	98RSS284	Efficient Accurate Controller for Envelope Feedforward Power Amplifiers	Pending	09/409,818	30-Sep-1999	FOLEY	
	99RSS133	Apparatus and Method for Connecting a Cellular Telephone to a Universal Serial Bus	Pending	09/312,064	13-May-1999	LYON	
	99RSS292	Device-Independent Interface for Embedded Telephone Applications to a Wireless Spread-Spectrum Link and Audio Processor	Pending	09/479,127	07-Jan-2000	WLSKZ	
	00CXT04301W (PID)	System and Method for Processing Audio and Video Data in a Wireless Handset	Pending	09/631,511	03-Aug-2000	AGSHF	
	00CXT04311W (PID)	System and Method for Processing Audio and Video Data in a Wireless Handset	Pending	09/631,508	03-Aug-2000	AGSHF	

Tab	Case Number	App Title	Status	App No	File Date	Agent	COMMENT
	96E005/1 (PTD)	Pre-Quantization in Motion Compensated Videocoding	Pending	09/828,535	06-Apr-2001	FARJ	
	98RSS004 (MindSpeed)	System and Method for Adaptive Multirate (AMR) Vocoder	Pending	09/080,013	15-May-1998	FARJ	
	99RSS284 (PCD)	Speaker-Phone System Change and Double-Talk Detection	Pending	09/675,291	29-Sep-2000	AGSHF	
	00CXT0249T (PTD)	New Low Cost CSP FC Leadframe Package for Low Pin Count RF Applications	Pending	10/013,023	05-Nov-2001	FARJ	PACKAGING
	00CXT0326T (PTD)	Chip Through Board Packaging Technique to Reduce Thermal Resistance and Increase Heat Dissipation	Pending	10/013,130	07-Dec-2001	FARJ	PACKAGING - Combined with 00CXT0527T
	00CXT0663T (PTD)	A Leadframe with an Exposed Paddle for Up to 10 GHz Digital Data Transmission Applications	Pending	10/012,792	13-Nov-2001	FARJ	PACKAGING
	00CXT0674T (PTD)	Voltage Regulation for Semiconductors Dies and Related Structure	Pending	09/971,162	05-Oct-2001	FARJ	PACKAGING
	01CXT0047T (PTD)	Low Cost, Off Chip Inductor with High Repeatability	Pending	10/016,309	02-Nov-2001	FARJ	PACKAGING
	01CXT0124T (PTD)	Laminate Package Embedded Antenna	Pending	10/026,134	22-Dec-2001	FARJ	PACKAGING
	01CXT0125T (PTD)	Shielded Printed Antenna on LGA/BGA Package	Pending	10/020,105	15-Dec-2001	FARJ	PACKAGING
	99RSS043CIP (PTD)	Cooling System for Pulsed Power Electronics	Pending	09/661,490	14-Sep-2000	FARJ	PACKAGING
	99RSS115	Multiple Chip Module With Integrated RF Capabilities	Pending	10/020,380	30-Oct-2001	FARJ	PACKAGING
	99RSS192 (PTD)	Integration of Passives (e.g. Transformer, Inductor, and Capacitor) on Chip by Utilizing the UBM (Under Bump Metalization) of the Flip Chip Process Together with the Thick Last Metal Layer of the Chip	Pending	10/025,438	18-Dec-2001	FARJ	PACKAGING

Tab	Case Number	App Title	Status	App No	File Date	Agent	COMMENT
	98RSS411 (PTD)	Method and Apparatus Suitable for Forming a Microelectronic Device Package	Pending	09/413,552	06-Oct-1999	TKHR	PACKAGING
	99RSS043 (PTD)	Method and Structure for Temperature Stabilization in Flip Chip Technology	Pending	09/266,376	11-Mar-1999	FOLEY	PACKAGING
	99RSS008 (PTD)	Method of Molding Shield Structures in Over-Molded Chip Carriers	Pending	09/644,035	22-Aug-2000	FARJ	PACKAGING
	99RSS205 (PTD)	Method and Structure for Securing a Mold Compound to a Printed Circuit Board	Pending	09/638,172	11-Aug-2000	FARJ	PACKAGING
	99RSS215 (PTD)	A New Leadframe Design for Deep Downset Packages to Avoid Paddle Backside Molding	Pending	09/648,879	25-Aug-2000	FARJ	PACKAGING
	00CXT0277T (PTD)	50 OHM Transmission Line for the RDL Routing On Flip Chip Bonded Chips	Pending	10/012,812	15-Nov-2001	FARJ	PACKAGING
	99RSS207 (PTD)	Locking Mechanism for the Paddle of a Deep Downset of a Leadframe Package to Increase Adhesion of Mold	Pending	09/599,210	22-Jun-2000	FARJ	PACKAGING
	98RSS246CIP (PTD)	Structure and Method for Fabrication of a Leadless Chip Carrier	Pending	09/878,815	11-Jun-2001	FARJ	PACKAGING
	98RSS246CIP (PTD)	Leadless Flip Chip Carrier Design and Structure	Pending	09/877,912	08-Jun-2001	FARJ	PACKAGING
	98RSS246CIP (PTD)	Structure and Method for Fabrication of a Leadless Chip Carrier with Embedded Inductor	Pending	09/930,747	14-Aug-2001	FARJ	PACKAGING
	98RSS246CIP (PTD)	Structure and Method for Fabrication of a Leadless Multi-Die Carrier	Pending	09/894,728	28-Jun-2001	FARJ	PACKAGING
	98RSS246CIP (PTD)	Structure and Method for Fabrication of a Leadless Chip Carrier with Embedded Antenna	Pending	09/916,666	26-Jul-2001	FARJ	PACKAGING
	98RSS246CON (PTD)	Leadless Chip Carrier Design and Structure	Pending	09/713,834	15-Nov-2000	FARJ	PACKAGING
	00CXT0827T (PTD)	A High Inductance Inductor In A Semiconductor Package	Pending	09/972,706	05-Oct-2001	FARJ	PACKAGING

Tab	Case Number	App Title	Status	App No	File Date	Agent	COMMENT
	00CXT0739W	Signal Processor for Reducing Undesirable Signal Content	Pending	09/127,844	03-Aug-1998		
	00CXT0749W	Inverted Super Regenerative Receiver	Pending	09/435,647	09-Nov-1999		
	00CXT0750W	A Frequency/ Phase Comparison Circuit with Gated Reference and Signal Inputs	Pending	09/491,875	27-Jan-2000		
	00CXT0753W	Low Voltage Transconductance Amplifier/Filters	Pending	09/676,597	29-Sep-2000		
	00CXT0755W	Complex Phase-Locked Loop Demodulator for Low-IF and Zero-IF Radio Receivers	Pending	09/676,233	29-Sep-2000		
	00CXT0756W	Delta-Sigma Based Dual-Port Modulation Scheme And Calibration Techniques For Similar Modulation Schemes	Pending	09/628,330	28-Jul-2000		
	00CXT0758W	Complex AGC/Filtering Radio Receiver Architecture for Low-IF or Zero IF	Pending	09/675,513	29-Sep-2000		
	00CXT0760W	Radio Calibration by Correcting the Crystal Frequency	Pending	09/702,691	01-Nov-2000		
	00CXT0761W	Linear Low Noise Phase Locked Loop Frequency Synthesizer Using Controlled Divider Pulse Widths	Pending	09/753,626	04-Jan-2001		
	00CXT0762W	Delta-Sigma Modulator for Fractional-N Frequency Synthesis	Pending	09/753,581	04-Jan-2001		
	00CXT0763W	Balanced Mixer with a Feedback Preamplifier	Pending	09/088,745	02-Jun-1998		
	00CXT0764W	Frequency Synthesizer	Pending	09/629,484	31-Jul-2000		
	00CXT0765W	ESD Protection in Mixed Signal ICS	Pending	09/545,887	07-Apr-2000		
	01CXT0166W	Low Power Bandgap Circuit	Pending	10/008,442	06-Dec-2001		

**GRANT OF SECURITY INTEREST
IN UNITED STATES TRADEMARKS AND PATENTS**

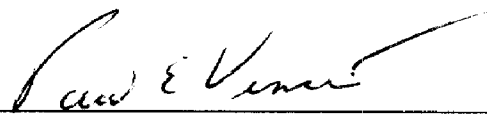
FOR GOOD AND VALUABLE CONSIDERATION, receipt and sufficiency of which are hereby acknowledged, Alpha Industries, Inc., a Delaware corporation (the "Grantor") with principal offices at 20 Sylvan Road, Woburn, MA 01801, hereby grants to Conexant Systems, Inc. with principal offices at 4311 Jamboree Road, Newport Beach, CA 92660 (the "Grantee"), a security interest in (i) all of the Grantor's right, title and interest in and to the United States trademarks, trademark registrations and trademark applications (the "Trademarks") set forth on Schedule A attached hereto, (ii) all of the Grantor's right, title and interest in and to the United States patents and patent applications (the "Patents") set forth on Schedule B attached hereto, in each case together with (iii) all Proceeds (as such term is defined in the Financing Agreement referred to below) of the Trademarks and Patents, (iv) the goodwill of the businesses with which the Trademarks are associated and (v) all causes of action arising prior to or after the date hereof for infringement of any of the Trademarks and Patents or unfair competition regarding the same.

THIS GRANT is made to secure the satisfactory performance and payment of all the Obligations of the Grantor, as such term is defined in the Financing Agreement among Alpha Industries, Inc., certain of its subsidiaries and the Grantee, dated as of June 25, 2002 (as amended from time to time, the "Financing Agreement"). Upon the occurrence of the Termination Date (as defined in the Financing Agreement), the Grantee shall, upon such satisfaction, execute, acknowledge, and deliver to the Grantor an instrument in writing releasing the security interest in the Trademarks and Patents acquired under this Grant.

This Grant has been made in conjunction with the security interest granted to the Grantee under the Financing Agreement. The rights and remedies of the Grantee with respect to the security interest granted herein are without prejudice to, and are in addition to those set forth in the Financing Agreement, all terms and provisions of which are incorporated herein by reference. In the event that any provisions of this Grant are deemed to conflict with the Financing Agreement, the provisions of the Financing Agreement shall govern.

IN WITNESS WHEREOF, the undersigned have executed this Agreement as
of the 25 day of June 2002.

ALPHA INDUSTRIES, INC.
as Grantor

By 
Name: Paul E. Vincent
Title: Vice President, Chief Financial
Officer, Treasurer and Secretary

CONEXANT SYSTEMS, INC.,
as Grantee

By _____
Name:
Title:

)

) SS.:

)

On this 25 day of JUNE, 2002, before me personally came Paul E. Vincent who, being by me duly sworn, did state as follows: that he is Vice President and Chief Financial Officer of Alpha Industries, Inc., that he is authorized to execute the foregoing Grant on behalf of said corporation and that he did so by authority of the Board of Directors of said corporation.

Russ R.

Notary Public

IN WITNESS WHEREOF, the undersigned have executed this Agreement as
of the 25 day of June 2002.

ALPHA INDUSTRIES, INC.,
as Grantor

By _____
Name:
Title:

CONEXANT SYSTEMS, INC.,
as Grantee

By  _____
Name: Dennis E. O'Reilly
Title: Senior Vice President, General
Counsel and Secretary

SCHEDULE B

ACTIVE US PATENTS/APPLICATIONS

Granted US Patents

Tab	Case Number	App Title	Status	App Number	File Date	Agent	Pat Number	Issue Date	COMMENT
1	00CXT0174W	Synthetic Quadrature Generating Apparatus	Granted	776,181	13-Sep-1985		4,787,058	22-Nov-1988	
2	00CXT0185D	Matched Filters for Processing Related Signal Components	Granted	571,596	13-Dec-1995		5,617,063	01-Apr-1997	
3	80E131	Shielded Amplifier	Granted	354,840	04-Mar-1982		4,454,481	12-Jun-1984	
4	82E035	Parameter-Setting Approach to Obtain High Performance CTD Transversal Filters for Devices with...	Granted	441,195	12-Nov-1982		4,539,536	03-Sep-1985	
5	85E018	Uncompensated and Compensated GaAs Input Receivers	Granted	759,193	26-Jul-1985		4,703,205	27-Oct-1987	
6	86E006	Third Mode Torsional E-M Resonator	Granted	849,093	07-Apr-1986		5,006,824	09-Apr-1991	
7	90E052	Receiver Designed with Large Output Drive and Having Unique Input Protection Circuit	Granted	591,164	01-Oct-1990	CNXT	5,124,578	23-Jun-1992	
8	92E030	Symmetrical Clock Crystal Oscillator Circuit	Granted	08/155,500	22-Nov-1993		5,455,542	03-Oct-1995	
9	93E032	Direct Connect Radio and Antenna Assembly	Granted	233,289	26-Apr-1994		5,606,732	25-Feb-1997	
10	93E067	Variable Multi-Threshold Detection for 0.3-GMSK	Granted	307,202	16-Sep-1994		5,459,762	17-Oct-1995	
11	94E005	Component Insensitive, Analog Bandpass Filter	Granted	196,328	15-Feb-1994		5,523,719	04-Jun-1996	
12	94E059	Method and Apparatus for Controlling the Wakeup Logic of a Radio Receiver in Sleep Mode	Granted	08/514,509	11-Aug-1995		5,845,204	01-Dec-1998	
13	95E002	An Iterative Filtering Frequency Estimator	Granted	515,403	15-Aug-1995		5,761,250	02-Jun-1998	
14	95E003	An Adaptive Frequency Correction Burst Detector for the GSM Handset System	Granted	08/537,376	29-Sep-1995		5,724,657	03-Mar-1998	
15	95E056	Jitter Circuit for Reduced Switching Noise	Granted	644,762	10-May-1996		5,754,601	19-May-1998	

PATENT

Tab	Case Number	App Title	Status	App Number	File Date	Agent	Pat Number	Issue Date	COMMENT
16	95E071	Extended Time Tracking and Peak Energy In-Window Demodulation for Use in a Direct Sequence Spread Spectrum System	Granted	08/568,053	06-Dec-1995	PG	5,778,022	07-Jul-1998	
17	95E072	Variable Digital Automatic Gain Control in a Cordless Direct Sequence Spread Spectrum Telephone	Granted	08/568,161	06-Dec-1995	PG	5,764,689	09-Jul-1998	
18	95E080	Method and Apparatus for Signal Quality Estimation in a Direct Sequence Spread Spectrum	Granted	09/348,491	06-Jan-2000	FOLEY	6,301,287	09-Oct-2001	
19	96E006	Ultra-Clean Voltage Power Supply Generator	Granted	08/892,444	14-Jul-1997	LYON	6,049,724	11-Apr-2000	
20	97RSS036	An LC-VCO Charge-Pump and Loop-Filter Architecture for Improved Noise-Immunity in Integrated Phase-Locked Loops	Granted	09/409,509	30-Sep-1999	MLCFG	6,281,758	28-Aug-2001	
21	97RSS053	Timing Estimation in Mobile Communication Systems Using Parabolic Interpolator	Granted	09/163,640	30-Sep-1998	HOWSM	6,219,345	17-Apr-2001	
22	97RSS060	A Method and an Apparatus for Positioning System Assisted Cellular Radiotelephone Handoff and Dropoff	Granted	09/025,962	19-Feb-1998	TKHR	6,327,471	04-Dec-2001	
23	97RSS061	Cellular Radiotelephone Having Answering Machine/Voice Memo Capability with Parameter-Based Speech Compression and Decompression	Granted	09/026,619	20-Feb-1998	TKHR	6,240,299	29-May-2001	
24	97RSS064	A Transistor Having a Novel Layout and an Emitter Having More Than One Feed Point	Granted	08/126,301	30-Jul-1998	TKHR	6,236,071	22-May-2001	
25	97RSS066	Voltage Upconverter for Portable Time Divisional Multiple Access Radio	Granted	09/047,242	24-Mar-1998	PG	6,078,167	20-Jun-2000	
26	97RSS100	Method and Apparatus for Automatic Gain Control With Improved Response Time and Stability	Granted	09/036,397	06-Mar-1998	PG	6,037,834	14-Mar-2000	
27	97RSS105	Universal Radio Architecture for Low-Tier Personal Communication System	Granted	08/348,359	30-Nov-1994	HOWSM	5,648,985	15-Jul-1997	PCSI P035US Exhibit 2

PATENT

Tab	Case Number	App Title	Status	App Number	File Date	Agent	Pat Number	Issue Date	COMMENT
28	97RSS107	Apparatus for and Method of Improving Efficiency of Transceivers in Radio Products	Granted	08/972,311	18-Nov-1997	TKHR	6,163,706	19-Dec-2000	
29	97RSS113	Multi-Layer Carrier Module for Power Amplifier Systems within a Digital Cellular Telephone	Granted	08/941,488	30-Sep-1997	AGSHF	6,236,271	22-May-2001	
30	97RSS116	Modulation Technique for Multi-Band Applications	Granted	09/044,281	19-Mar-1998	PG	6,005,443	21-Dec-1999	
31	97RSS118	RF Architecture for Cellular Dual Band Telephones	Granted	09/057,124	08-Apr-1998	TKHR	6,208,875	27-Mar-2001	
32	97RSS120	Front End Filter Circuitry for a Dual Band GSM/DCS Cellular Phone	Granted	09/036,258	06-Mar-1998	PG	6,125,271	26-Sep-2000	
33	97RSS122	Battery Management System With Current Measurement Across On-Resistance of Semiconductor Cutout Switch	Granted	08/940,630	30-Sep-1997	FOLEY	6,031,302	29-Feb-2000	
34	97RSS126	Dualband Power Amplifier Control Using A Single Power Amplifier Controller	Granted	08/965,843	07-Nov-1997	TKHR	6,216,012	10-Apr-2001	
35	97RSS128	Low Voltage Medium Power Class C Power Amplifier With Precise Gain Control	Granted	09/064,114	21-Apr-1998	TKHR	5,966,051	12-Oct-1999	
36	97RSS129	Non-Linear Constant Envelop Modulator and Transmit Architecture	Granted	09/040,225	13-Mar-1998	TKHR	6,078,628	20-Jun-2000	
37	97RSS151CON	Programmable Digital Modulator and Methods of Modulating Digital Data	Granted	08/330,577	27-Oct-1994	FSHRI	5,600,678	04-Feb-1997	PCSI P006US Exhibit 2
38	97RSS151	Programmable Digital Modulator and Methods of Modulating Digital Data	Granted	07/858,397	26-Mar-1992	FSHRI	5,420,887	30-May-1995	
39	97RSS154	Sample Interpolator and Method of Generating Additional Samples of a Sampled Waveform Using a Programmable Sample Divider	Granted	918,941	25-Aug-1997	FSHRI	5,937,010	10-Aug-1999	Continuation of Abandoned PCSI Exhibit 2 case
40	97RSS158	Near Direct Conversion Receiver and Method for Equalizing Amplitude and Phase Therein	Granted	08/521,568	30-Aug-1995	FSHRI	5,828,955	27-Oct-1998	PCSI P058US Exhibit 2

PATENT

Tab	Case Number	App Title	Status	App Number	File Date	Agent	Pat Number	Issue Date	COMMENT
41	97RSS160CON	Frame Structure Using Consecutive Slot Assignments for Mobile Communications	Granted	08/468,374	06-Jun-1995	FSHRI	5,710,762	20-Jan-1998	PCSI P020US-1N Exhibit 2A
42	97RSS160	Frame Structure Using Consecutive Slot Assignments for Mobile Communications	Granted	08/145,745	29-Oct-1993	FSHRI	5,444,696	22-Aug-1995	PCSI P020US-1N Exhibit 2A
43	97RSS162	Receiver With Filter Offset Correction	Granted	08/516,197	17-Aug-1995	FDML	5,757,864	26-May-1998	PCSI P045US Exhibit 2
44	97RSS163	Method and Apparatus for Minimizing Perceptible Impact on an Interrupted Call Prior to Hand-Off	Granted	08/692,552	06-Aug-1996	BHGL	6,259,916	10-Jul-2001	PCSI P068US Exhibit 2
45	97RSS167	Bipolar Analog Multipliers for Low Voltage Applications	Granted	08/485,088	07-Jun-1996		5,570,056	29-Oct-1996	PCSI P026US Exhibit 2
46	97RSS168	Dual Frequency Synthesis System	Granted	09/163,735	30-Sep-1998	BHGL	6,127,900	03-Oct-2000	
47	97RSS179	Retransmission Packet Capture System Within a Wireless Multiservice Communications Environment	Granted	08/923,722	04-Sep-1997	TKHR	6,145,108	07-Nov-2000	
48	97RSS179	Retransmission Packet Capture System Within a Wireless Multiservice Communications Environment	Granted	09/038,724	10-Mar-1998	PG	6,138,260	24-Oct-2000	
49	97RSS194	Using a Single Low-Noise Amplifier in a Multi-Band Wireless Station	Granted	09/164,168	30-Sep-1998	BHGL	6,134,427	17-Oct-2000	
50	97RSS200	Digital Phase Lock Loop Divider Cycling Method, Apparatus, and Communication System Incorporating the Same	Granted	09/160,884	25-Sep-1998	FOLEY	6,114,888	05-Sep-2000	
51	97RSS201	Dual Band Transmitter for a Cellular Phone Comprising a PLL	Granted	09/163,798	30-Sep-1998	KMOB	6,150,890	21-Nov-2000	
52	97RSS202	Transmitter Circuitry for a Cellular Phone	Granted	09/158,876	23-Sep-1998	KMOB	6,304,748	16-Oct-2001	
53	97RSS209	Stability and Enhanced Gain of Amplifiers Using Inductive Coupling	Granted	09/016,195	30-Jan-1998	KMOB	6,211,738	03-Apr-2001	
54	97RSS242	Frame Structure Using Consecutive Slot Assignments for Mobile Communications	Granted	145,745	29-Oct-1993	FSHRI	5,444,696	22-Aug-1995	

Tab	Case Number	App Title	Status	App Number	File Date	Agent	Pat Number	Issue Date	COMMENT
55	97RSS291	Frequency Reference Compensation	Granted	08/110,611	24-Aug-1993		5,542,095	30-Jul-1996	PCSI P009USN Exhibit 2
56	97RSS311	Modulator and Process for Minimizing Power Consumption and Communication System Employing Same	Granted	09/161,154	25-Sep-1998	FOLEY	6,263,027	17-Jul-2001	
57	97RSS312	Method and Apparatus for Improving Modulation Accuracy	Granted	09/103,418	24-Jun-1998	KMOB	6,268,818	31-Jul-2001	
58	97RSS323	Dual Band Cellular Phone With Two Power Amplifiers and Power Control Circuit Therefore	Granted	09/103,897	24-Jun-1998	KMOB	6,154,664	28-Nov-2000	
59	97RSS324	Cellular Phone With a Logarithmic Detector	Granted	09/103,899	24-Jun-1998	KMOB	6,163,709	19-Dec-2000	
60	97RSS325	Dual Band Cellular Phone With Two Power Amplifiers and a Current Detector for Monitoring the Consumed Power	Granted	09/103,898	24-Jun-1998	KMOB	6,151,509	21-Nov-2000	
61	97RSS343	Power Management for a Telephone System by Dynamically Adjusting Transmission Power	Granted	09/104,732	25-Jun-1998	KMOB	6,256,476	03-Jul-2001	
62	97RSS347 (WCD)	System and Method for Wireless Voice and Computer Communications	Granted	09/109,987	30-Jun-1998	KMOB	6,327,476	04-Dec-2001	
63	97RSS348	Multi-Functional Battery Management Module Operable in a Charging Mode and a Battery Pack Mode	Granted	09/060,425	14-Apr-1998	KMOB	6,100,670	08-Aug-2000	
64	97RSS361	Variable Gain Amplifier with Gain Linear with Control Voltage	Granted	09/163,885	30-Sep-1998	BHGL	6,124,761	26-Sep-2000	
65	97RSS393	High-Linearity, Low-Spread Variable Capacitance Array	Granted	09/081,542	19-May-1998	KMOB	6,181,218	30-Jan-2001	
66	97RSS450	Power Management System for a Mobile Station	Granted	08/959,588	29-Oct-1997	KMOB	6,044,069	28-Mar-2000	
67	97RSS451	Power Management System for a Mobile Unit by Intelligent Page Monitoring	Granted	09/056,572	07-Apr-1998	KMOB	6,240,288	29-May-2001	
68	97RSS458	Cellular Telephone	Granted	086,535	14-Apr-1998	FSHRI	D408,398	20-Apr-1999	

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Tab	Case Number	App Title	Status	App Number	File Date	Agent	Pat Number	Issue Date	COMMENT
69	97RSS462	Double Balance Differential Active Ring Mixer With Current Shared Active RF Input Balun	Granted	09/087,315	29-May-1998	FSHRI	6,057,714	02-May-2000	
70	97RSS464	Method and Apparatus for Enhanced Performance in a System Employing Convolutional Decoding	Granted	09/021,898	11-Feb-1998	KMOB	6,192,500	20-Feb-2001	
71	97RSS474	Amplifier Module With Two Power Amplifiers for Dual Band Cellular Phones	Granted	09/016,242	30-Jan-1998	KMOB	6,075,995	13-Jun-2000	
72	97RSS479	Method and Apparatus for Improving the Sensitivity of an RF Receiver at Certain Frequencies	Granted	09/153,008	11-Sep-1998	AGSHF	6,192,228	20-Feb-2001	
73	97RSS480	Integrated Battery Compartment and Hinge	Granted	09/073,725	07-May-1998	KMOB	6,219,257	17-Apr-2001	
74	97RSS495	Apparatus and Method for Implementing a Low-Noise Amplifier	Granted	09/201,643	30-Nov-1998	KMOB	6,275,687	14-Aug-2001	
75	97RSS497	Receiver for RF Signals	Granted	09/203,001	30-Nov-1998	KMOB	6,298,226	02-Oct-2001	
76	97RSS526	Method and Apparatus for Sharing Transmit Shaping Filters Among Phase Shifted Signals	Granted	09/164,428	30-Sep-1998	AGSHF	6,181,674	30-Jan-2001	
77	98RSS009	Phase Interpolated Fractional-N Frequency Synthesizer With On-Chip Tuning	Granted	09/108,947	01-Jul-1998	KMOB	6,064,272	16-May-2000	
78	98RSS014	A Compact and Fast Cubic Function Generator	Granted	09/148,568	04-Sep-1998	KMOB	6,160,429	12-Dec-2000	
79	98RSS015	Flexible Transfer Function Generator	Granted	09/144,404	31-Aug-1998	HOWSM	6,321,072	20-Nov-2001	
80	98RSS058	Intelligent Control of Receiver Linearity Based on Interference	Granted	09/160,613	24-Sep-1998	SNR	6,311,048	30-Oct-2001	
81	98RSS134	Method of Independently Creating and Using a Garbage Model for Improved Rejection in a Limited-Training Speaker-Dependent Speech Recognition System	Granted	09/134,177	14-Aug-1998	AKIN	6,223,155	24-Apr-2001	
82	98RSS178	System and Method for Dynamically Varying Operational Parameters of an Amplifier	Granted	09/222,686	29-Dec-1998	KMOB	6,327,462	04-Dec-2001	
83	98RSS202	Cooling System for Power Amplifier and Communication System Employing the Same	Granted	09/170,029	13-Oct-1998	FOLEY	6,134,110	17-Oct-2000	

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Tab	Case Number	App Title	Status	App Number	File Date	Agent	Pat Number	Issue Date	COMMENT
84	98RSS238	Phase/Frequency Detector with Time-Delayed Inputs In a Charge Pump Based Phase Locked Loop and a Method for Enhancing the Phase Locked Loop Gain	Granted	09/363,779	29-Jul-1999	FOLEY	6,147,561	14-Nov-2000	
85	98RSS255	Phase Lock Loop Used as Up Converter and for Reducing Phase Noise of an Output Signal	Granted	09/405,749	30-Sep-1999	FOLEY	6,255,912	03-Jul-2001	
86	98RSS259	Gated delay-locked loop for clock generation applications	Granted	09/302,755	30-Apr-1999	PROCO	6,208,183	27-Mar-2001	
87	98RSS261	source-switched or gate-switched charge pump having cascaded output	Granted	09/302,666	30-Apr-1999	LYON	6,160,432	12-Dec-2000	
88	98RSS267	Fully Integrated Broadband RF Voltage Amplifier with Enhanced Voltage Gain and Method	Granted	09/405,766	27-Sep-1999	FOLEY	6,265,944	24-Jul-2001	
89	98RSS268	Low Noise Low Power Charge Pump System for Phase Lock Loop	Granted	09/405,752	27-Sep-1999	FOLEY	6,215,363	10-Apr-2001	
90	98RSS271	System and Process for Shared Functional Block Communication Transceivers With GPS Capability	Granted	09/256,450	23-Feb-1999	TKHR	6,208,844	27-Mar-2001	
91	98RSS280	Power Amplifier Driver System for Wireless Handset	Granted	09/328,927	09-Jun-1999	HOWSM	6,339,361	15-Jan-2002	
92	98RSS285	Power Amplification Using A Direct-Upconverting Quadrature Mixer Topology	Granted	09/318,482	25-May-1999	BHGL	6,307,894	23-Oct-2001	
93	98RSS286	Envelope Peak and Trough Limiting to Improve Amplifier Efficiency and Distortion Characteristics	Granted	09/318,529	25-May-1999	BHGL	6,242,975	05-Jun-2001	
94	98RSS304	Phase-Locked Loop Having Temperature-Compensated Bandwidth Control	Granted	09/314,898	19-May-1999	LYON	6,211,743	03-Apr-2001	
95	98RSS307	Log-Domain Filter Having a Variable Dynamic Range Window	Granted	09/322,401	28-May-1999	LYON	6,262,623	17-Jul-2001	

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Tab	Case Number	App Title	Status	App Number	File Date	Agent	Pat Number	Issue Date	COMMENT
96	98RSS319	Six Inverting Amplifier Transconductance Stage and Methods for its Use	Granted	09/385,225	27-Aug-1999	TKHR	6,191,655	20-Feb-2001	
97	98RSS336	Method and Apparatus for Extending a VCO Tuning Range	Granted	09/498,378	03-Feb-2000	WLSKZ	6,204,734	20-Mar-2001	
98	99RSS005	A Method and Apparatus for Improving RF Contact Positioning in as RF Test Socket	Granted	09/360,586	26-Jul-1999	BHGL	6,227,878	08-May-2001	
99	99RSS015	Power Amplifier Operated as an Envelope Digital to Analog Converter with Digital Pre-Distortion	Granted	09/410,216	30-Sep-1999	AGSHF	6,255,906	03-Jul-2001	
100	99RSS025	System and Method For Variable Gain Coder-Decoder	Granted	09/378,325	20-Aug-1999	AGSHF	6,252,528	26-Jun-2001	
101	99RSS042	Differential Oscillator	Granted	09/386,957	25-Aug-1999	LYON	6,249,190	19-Jun-2001	
102	99RSS068	Peer-To-Peer Data Transfer Using Pre-Existing Caller ID Class FSK Signaling Infrastructure	Granted	09/328,048	08-Jun-1999	PROCO	6,304,642	16-Oct-2001	
103	99RSS220	Method and Apparatus for Code Error Correction	Granted	08/131,078	01-Oct-1993		5,491,700	13-Feb-1996	PCSI P013US Exhibit 2
104	99RSS354	Apparatus and Method for Increasing Data Transmission Rate Over Wireless Communication Systems Using Spectral Shaping	Granted	099,080	28-Jul-1993		5,386,590	31-Jan-1995	
105	99RSS355	Apparatus and Method For Increasing Data Transmission Rate Over Wireless Communication Systems Using Spectral Shaping	Granted	147,148	03-Nov-1993		5,507,033	09-Apr-1996	
106	99RSS356	Apparatus and Method for Compensating for Limiter Induced Non-Linear Distortion in a Wireless Data Communication System	Granted	198,085	17-Feb-1994	KMOB	5,533,048	02-Jul-1996	
107	99RSS357	Method of Internal Interference Cancellation in TDMA Receiver	Granted	09/495,993	01-Feb-2000	WLSKZ	6,259,752	10-Jul-2001	

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Tab	Case Number	App Title	Status	App Number	File Date	Agent	Pat Number	Issue Date	COMMENT
108	97RSS372 (PTD)	Compensation Technique Using MOS Capacitance	Granted	09/163,789	30-Sep-1998	SNLWI	6,087,896	11-Jul-2000	
109	97RSS088 (PTD)	CMOS Electrostatic Discharge Protection Circuit With Minimal Loading for High Speed Circuit Applications	Granted	09/163,675	30-Sep-1998	LUM	6,292,046	18-Sep-2001	
110	95E117	Effectively Differential, Multiple Input OR/NOR Gate Architecture	Granted	08/752,016	19-Nov-1996		5,945,848	31-Aug-1999	
111	97RSS005	A System and Method for a Monolithic Directional Microphone Array	Granted	08/974,874	20-Nov-1997	SNLWI	6,192,134	20-Feb-2001	
112	97RSS006	Method and Apparatus for Sensing an Audio Signal That is Sensitive to the Audio Signal and Insensitive to Background Noise	Granted	08/920,846	29-Aug-1997	PG	6,072,882	06-Jun-2000	
113	97RSS103	Self-Test and Status Reporting System for Microcontroller-Controlled Devices	Granted	09/347,889	06-Jul-1999	KMOB	6,104,304	15-Aug-2000	
114	97RSS460	Convolution Decoding Terminated by an Error Detection Block Code with Distributed Parity Bits	Granted	09/021,896	11-Feb-1998	KMOB	6,199,190	06-Mar-2001	
115	98RSS114	Low-Voltage Dual-Modulus Prescaler Circuit Using Merged Pseudo-Differential Logic	Granted	09/163,862	30-Sep-1998	PROCO	6,157,693	05-Dec-2000	
116	98RSS258	Interlaced Master Slave ECL Flip Flop	Granted	09/405,964	30-Sep-1999	FOLEY	6,191,629	20-Feb-2001	
117	00CXT0105T	Planar HBT-FET Device	Granted	949,901	23-Sep-1992		5,250,826	05-Oct-1993	
118	83E050	Small Size, High Speed GaAs Data Latch	Granted	727,958	26-Apr-1985		4,707,808	17-Nov-1987	
119	00CXT0191W	Method and Apparatus for Dual Demodulation of Mobile Channel Signals	Granted	494,712	26-Jun-1995		5,517,530	14-May-1996	
120	95E082	Echo Canceling Method and Apparatus in a Communication Device	Granted	08/568,843	07-Dec-1995	AGSHF	5,933,494	03-Aug-1999	
121	97RSS161	Dual Source for Constant and PTAT Current	Granted	565,424	30-Nov-1995		5,774,013	30-Jun-1998	PCSI P046US Exhibit 2
122	95E062	Frequency Error Compensation for Direct Sequence Spread Spectrum Systems	Granted	08/568,095	06-Dec-1995	PG	5,732,111	24-Mar-1998	

Tab	Case Number	App Title	Status	App Number	File Date	Agent	Pat Number	Issue Date	COMMENT
123	95E063	Frequency Acquisition Method for Direct Sequence Spread Spectrum System	Granted	09/447,538	10-Nov-1998	FOLEY	6,222,874	24-Apr-2001	
124	95E063	Frequency Acquisition Method for Direct Sequence Spread Spectrum System	Granted	08/568,058	06-Dec-1995	PG	5,799,034	25-Aug-1998	
125	95E089	Gain Imbalance Compensation for a Quadrature Receiver in a Cordless Direct Sequence Spread	Granted	08/568,210	06-Dec-1995	PG	5,930,286	27-Jul-1999	
126	95E089	Gain Imbalance Compensation for a Quadrature Receiver in a Cordless Direct Sequence Spread	Granted	09/325,109	03-Jun-1999	TKHR	6,307,902	23-Oct-2001	
127	97RSS297DIV	Frequency Controller and Method of Correcting Phase Estimates in a PSK Demodulator Using Frequency Control	Granted	08/487,455	07-Jun-1995	FSHRI	5,594,758	14-Jan-1997	PCSI P008US3 Exhibit 2
128	98RSS178	System and Method for Dynamically Varying Operational Parameters of an Amplifier	Granted	09/222,686	29-12-1998	KMOB	6,327,462	04-Dec-2001	
129	97RSS156DIV	Timing Recovery Controller and Method for Adjusting the Timing of Synchronizing Windows in a PSK Demodulator	Granted	08/472,125	07-Jun-1995		5,625,652	29-Apr-1997	PCSI P008US2 Exhibit 2
130	97RSS220	Phase Estimation and Synchronization Using a PSK Demodulator	Granted	07/999,210	31-Dec-1992		5,376,894	27-Dec-1994	PCSI P008US Exhibit 2
131	96E005 (PTD)	Pre-Quantization in Motion Compensated Videocoding	Granted	09/006,972	14-Jan-1998	FARJ	6,275,527	14-Aug-2001	
132	97RSS010 (PTD)	Method and Apparatus for Wireless Testing of Integrated Circuits	Granted	09/046,011	23-Mar-1998	TKHR	6,331,782	18-Dec-2001	
133	95E074	CID Demodulator for DCT	Granted	08/569,489	07-Dec-1995	Akin	5,828,708	27-Oct-1998	
134	97RSS091	Multiple Antenna Home Base for Digital Cordless Telephones	Granted	08/573,128	15-Dec-1995	FSHRI	5,661,762	26-Aug-1997	PHS
135	97RSS104	Multiple Antenna Home Base for Digital Cordless Telephones	Granted	08/699,217	19-Aug-1996		5,648,992	15-Jul-1997	PHS

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Tab	Case Number	App Title	Status	App Number	File Date	Agent	Pat Number	Issue Date	COMMENT
136	97RSS155	Unique Word Detector and Method for Detecting a Unique Word with one of Several Windows Offset Time	Granted	08/472,121	07-Jun-1995		5,524,127	04-Jun-1996	PHS
137	97RSS155	Phase detector and a method determining the phase of received PSK symbols	Granted	08/289,061	11-Aug-1994		5,610,949	11-Mar-1997	PHS
138	97RSS157	Method and Apparatus of Frequency Generation for use With Digital Cordless Telephone	Granted	08/013,625	04-Feb-1993		5,722,040	24-Feb-1998	PHS
139	97RSS159	ADPCM Coding and Decoding Techniques for Personal Communication Systems	Granted	08/191,609	04-Feb-1994		5,615,222	25-Mar-1997	PHS
140	97RSS165	Multiple Antenna Home Base for Digital Cordless Telephones	Granted	08/573,287	15-Dec-1995		5,696,798	09-Dec-1997	PHS
141	97RSS295	Method and Apparatus for Frequency Synthesization in Digital Cordless Telephones	Granted	08/131,210	01-Oct-1993	FSHRI	5,526,527	11-Jun-1996	PHS
142	97RSS454	Avoiding Interference From a Potentially Interfering Transmitter in a Wireless Communication System	Granted	09/163,972	30-Sep-1998	AGSHF	6,256,477	03-Jul-2001	PHS

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Tab	Case Number	App Title	Status	App Number	File Date	Agent	Pat Number	Issue Date	COMMENT
	00CXT0143W	Soft-Decision Classifier	Granted	988,364	09-Dec-1992	BOE	5,361,379	01-Nov-1994	
	00CXT0095W	Resistive Planar Ring Double-Balanced Mixer	Granted	576,755	04-Sep-1990	BOE	5,125,111	23-Jun-1992	
	00CXT0096N (PTD)	Large Array MMIC Feedthrough	Granted	540,964	08-Jun-1990	BOE	5,132,648	21-Jul-1992	
	00CXT0098T	Stress-Free Chemo-Mechanical Polishing Agent for II-VI Compound Semiconductor Single Crystals and Method of Polishing	Granted	787,154	04-Nov-1991	BOE	5,157,876	27-Oct-1992	
	00CXT0101T	Technique for Doping MOCVD Grown Crystalline Materials Using Free Radical Transport of the Copant Species	Granted	656,940	19-Feb-1991	BOE	5,202,283	13-Apr-1993	
	00CXT0108T	Technique for Doping Mercury Cadmium Telluride MOCVD Grown Crystalline Materials Using Free Radical Transport of Elemental Indium and Apparatus Therefor	Granted	657,692	19-Feb-1991	BOE	5,306,660	26-Apr-1994	
	00CXT0113W	Moving Vehicle Classifier with Nonlinear Mapper	Granted	061,879	17-May-1993	BOE	5,337,257	09-Aug-1994	
	00CXT0084T	Isolated Low Power Thyristor Gate Drive Circuit	Granted	740,465	03-Jun-1985	BOE	4,631,472	23-Dec-1986	
	00CXT0133W	Large Time-Bandwidth Chirp Pulse Generator	Granted	102,924	06-Aug-1993	BOE	5,428,361	27-Jun-1995	
	00CXT0140N	Moving Vehicle Classifier With Iterative Deconvolver Estimator	Granted	76,077	11-Jun-1993	BOE	5,367,475	22-Nov-1994	

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Tab	Case Number	App Title	Status	App Number	File Date	Agent	Pat Number	Issue Date	COMMENT
1	97RSS403 (PTD)	Semiconductor Device with Bonding Anchors in Build-up Layers	Granted	09/373,303	12-Aug-1999	TKHR	6,252,178	26-Jun-2001	PACKAGING
2	98RSS246 (PTD)	Leadless Chip Carrier Design and Structure	Granted	09/252,851	17-Feb-1999	FARJ	6,191,477	20-Feb-2001	PACKAGING
3	99RSS121 (PTD)	A new ground and power design for top metal layer of wire bonded mcm substrates to minimize their respective inductance and therefore noise contribution	Granted	09/358,579	21-Jul-1999	SNLWI	6,274,925	14-Aug-2001	PACKAGING
4	97RSS459RCE (PTD)	Single Paddle Having A Semiconductor Device and a Passive Electronic Component	Granted	09/083,474	22-May-1998	Snell	6,335,564	01-Jan-2002	PACKAGING
5	97RSS459 (PTD)	Leadframe Having a Paddle With an Isolated Area	Granted	073,779	06-May-1998	TKHR	6,385,478	07-May-2002	PACKAGING
6	99RSS043CIP (PTD)	Cooling System for Pulsed Power Electronics	Granted	09/493,591	31-Jan-2000	FARJ	6,261,871	17-Jul-2001	PACKAGING
7	99RSS043DIV (PTD)	Temperature Stabilization in Flip Chip Technology	Granted	09/799,446	05-Mar-2001	FARJ	6,359,343	19-Mar-2002	PACKAGING
8	99RSS115	Multiple Chip Module with Integrated RF Capabilities	Granted	09/239,617	29-Jan-1999	FARJ	6,377,464	23-Apr-2002	PACKAGING
		One Bit Digital Quadrature Vector Modulator	Granted	09/135,243	17-Aug-1998		6,339,621	15-Jan-2002	
		Method and Apparatus for Minimizing Mismatch in A Complex Filter	Granted	09/252,381	18-Feb-1999		6,329,939	11-Dec-2001	
		An Amplifier for Continuous High Grain, Narrowband Signal Amplification	Granted	09/209,051	09-Dec-1998		6,057,735	02-May-2000	
		A Fractional-N Divider Using a Delta-Sigma Modulator	Granted	09/281,854	31-03-1999		6,236,703	22-May-2001	
		Method and Apparatus for Dynamically Generating Multiple Level Decision Thresholds of an M-ary Coded Signal	Granted	09/676,235	29-Sep-2000		6,317,062	13-Nov-2001	
		Backfire Antenna Feeding	Granted	653,457	24-Sep-1984		4,673,945	16-Jun-1987	
		Apparatus and Process for Firing Ceramics	Granted	149,174	27-Jan-1988		4,833,302	23-May-1989	

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Tab	Case Number	App Title	Status	App Number	File Date	Agent	Pat Number	Issue Date	COMMENT
		Apparatus and Process for Firing Ceramics	Granted	304,292	31-Jan-1989		4,898,534	06-Feb-1990	
		Dense Ceramic Alloys and Process of Making Same	Granted	049,984	15-May-1987		4,942,146	17-Jul-1990	

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REEL: 13240 FRAME: 0907

US Pending Patent Application filed with USPTO

Tab	Case Number	App Title	Status	App Number	File Date	Agent	COMMENT
	00CXT0018W	VCO Tuning Curve Compensated Charge Pump Current Synthesizer	Pending	09/675,889	29-Sep-2000	WLSKZ	
	00CXT0040W	Power amplifier with provisions for varying operating voltage based upon power amplifier output power	Pending	09/792,660	23-Feb-2001	TKHR	
	00CXT0045W	Multi-Level Power Amplifier	Pending	09/880,286	13-Jun-2001	TKHR	
	00CXT0070W	IC Capacitor Trimming Using Fuses	Pending	10/121,366	11-Apr-2002	POLIT	
	00CXT0072W	Longitudinally-Coupled Saw Filter Enhanced Frequency Selectivity	Pending	09/545,232	07-Apr-2000	HOWSM	
	00CXT0263W	System for Closed Loop Power Control Using a Linear or a Non-Linear Power Amplifier	Pending	09/650,987	30-Aug-2000	TKHR	
	00CXT0308W	Transmitter Architecture having a Secondary Phase-Error Correction Loop including an Amplitude Reconstruction System	Pending	09/650,831	30-Aug-2000	TKHR	
	00CXT0310W	System for Allowing a TDMA/CDMA Portable Transceiver to Operate with Closed Loop Power Control	Pending	09/665,820	20-Sep-2000	TKHR	
	00CXT0323W	Multiple Step Switched Translation Loop for Power Amplifier Feedback Control	Pending	09/666,698	21-Sep-2000	TKHR	
	00CXT0325W	Dual-Feedback Translation Loop	Pending	09/666,577	21-Sep-2000	TKHR	
	00CXT0350W	Dynamically Biased Power Amplifiers	Pending	09/818,285	27-Mar-2001	TKHR	
	00CXT0377W	Digitally Controlled Bias Circuit for Amplifiers	Pending	09/817,668	26-Mar-2001	TKHR	
	00CXT0464W	Amplification Control Scheme for a Receiver	Pending	09/823,488	30-Mar-2001	BHGL	
	00CXT0517W	Terminal Arrangement for an Electrical Device	Pending	09/677,162	02-Oct-2000	TKHR	
	00CXT0521W	A Charge Pump Having Reduced Switching Noise	Pending	09/718,963	21-Nov-2000	TKHR	
	00CXT0523W	Fast Settling Charge Pump	Pending	09/718,615	21-Nov-2000	TKHR	

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REEL: 13240 FRAME: 0908

Tab	Case Number	App Title	Status	App Number	File Date	Agent	COMMENT
	00CXT0526W	Fast-Acquisition Phase-Locked Loop	Pending	10/032,848	01-Nov-2001	MLCFG	
	00CXT0608W	Power Amplifier Circuit for Providing Constant Bias Current Over a Wide Temperature Range	Pending	09/722,772	27-Nov-2000	TKHR	
	00CXT0618W	Current Mirror Compensation System for Power Amplifiers	Pending	09/772,717	30-Jan-2001	TKHR	
	00CXT0641W	Integrated on Chip VCO Calibration Algorithm to Extend VCO Tuning Range	Pending	10/114,182	02-Apr-2002	MLCFG	
	00CXT0656W	Constant Current Biasing Circuit for Linear Power Amplifiers	Pending	09/693,398	21-Oct-2000	SNR	
	00CXT0656W	Configurable Power Amplifier and Bias Control	Pending	09/971,523	05-Oct-2001	TKHR	
	00CXT0682W	Harmonic Cancellation Mixers	Pending	09/823,314	30-Mar-2001	TKHR	
	00CXT0718W	Bias Enhancement Circuit for Linear Amplifiers	Pending	09/715,871	15-Nov-2000	SNR	
	00CXT0733W	Continuous Closed-Loop Power Control System Including Modulation Injection in a Wireless Transceiver Power Amplifier	Pending	09/704,930	02-Nov-2000	TKHR	
	00CXT0816W	Frequency Plan	Pending	09/823,680	30-Mar-2001	TKHR	
	01CXT0011W	Low Voltage Integrated Bandgap Reference for an HBT Linear Power Amplifier	Pending	10/135,490	30-Apr-2002	SNR	
	01CXT0014W	Closed Loop Power Amplifier Control	Pending	60/280,709	30-Mar-2001	SNR	
	01CXT0018W	Doherty Bias Circuit for Dynamically Compensating for Environmental Variations	Pending	09/951,788	10-Sep-2001	SNR	
	01CXT0019W	Dual Mode PA Having a Common Controller	Pending	10/137,718	30-Apr-2002	SNR	
	01CXT0149W	Systems for Controlling the Frequency of an Oscillator	Pending	09/823,316	30-Mar-2001	TKHR	
	01CXT0176W	System for Controlling the Amplitude of an Oscillator	Pending	09/823,285	30-Mar-2001	TKHR	
	01CXT0179W	Low Voltage Interface	Pending	09/823,681	30-Mar-2001	TKHR	

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	01CXT0180W	Interference Reduction for Direct Conversion Receivers	Pending	09/823,313	30-Mar-2001	TKHR	
	01CXT0181W	Switched Capacitor for Analog Integrated Circuits	Pending	09/823,679	30-Mar-2001	TKHR	
	01CXT0201W	Method & Apparatus Multipath Signal Detection, Identification, and Monitoring for W-CDMA	Pending	60/275,032	12-Mar-2001	TKHR	
	01CXT0202W	Method & Apparatus for Spread Spectrum Radio Signal Recovery in Wideband Spread Communication Systems	Pending	60/275,192	12-Mar-2001	TKHR	
	01CXT0235W	A Stable Epitaxial Emitter Ballast for Heterojunction Bipolar Transistors (HBT's) by Modulated Emitter Cap Doping Profile	Pending	10/115,317	03-Apr-2002	FARJ	
	01CXT0341T (PTD)	A Low Current and High Performance BIFET Low Noise Amplifier (LNA)	Pending	10/057,098	23-Jan-2002	FARJ	
	95E080	Method and Apparatus for Signal Quality Estimation in a Direct Sequence Spread Spectrum...	Pending	568,330	06-Dec-1995	FOLEY	
	95E082	Echo Canceling Method and Apparatus in a Communication Device	Pending	09/220,123	23-Dec-1998	AGSHF	
	95E088	12 Chip Coded Spread Spectrum Modulation for Direct Conversion Radio Architectures in a Digital Cordless Telephone	Pending	08/568,047	06-Dec-1995		
	96E085	Intermediate Frequency Amplifier Circuit for Use in Receive and Transmit Modes	Pending	08/752,767	20-Nov-1996	FOLEY	
	97RSS006	Method and Apparatus for Sensing an Audio Signal That is Sensitive to the Audio Signal and Insensitive to Background Noise	Pending	09/491,726	27-Jan-2000	TKHR	
	97RSS057	Multiple Half-Burst Phase Rotation for High Frequency Demodulation	Pending	09/164,534	30-Sep-1998	HOWSM	
	97RSS063	Power Amplifier Saturation Prevention Method, Apparatus and Communication System Incorporating the Same	Pending	09/152,439	14-Sep-1998	FOLEY	
	97RSS068	Device and Process for Coupling Multi-Band Transmitters and Receivers and Communication System Employing Same	Pending	09/160,677	11-Oct-2000	FOLEY	
	97RSS069	Using a Low Frequency Timer to Restore Timing to a High Frequency Timer	Pending	09/164,432	30-Sep-1998	TKHR	

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	97RSS073	A System and Method for Extending the Range of a Base Unit	Pending	09/072,198	31-Jul-2000	TKHR	
	97RSS101	Automatic GSM Mobile Power	Pending	09/161,611	25-Sep-1998	FOLEY	
	97RSS107	Apparatus for and Method of Improving Efficiency of Transceivers in Radio Products	Pending	09/672,235	27-Sep-2000	TKHR	
	97RSS108	Cellular Telephone Keypad/Acoustic Isolation Device/LCD	Pending	09/408,966	29-Sep-1999	AGSHF	
	97RSS115	Dual Mode Phone Architecture Utilizing a Single Transmit-Receive Switch	Pending	09/013,235	26-Jan-1998	WLSKZ	
	97RSS118CIP (WCD)	RF Architecture for Cellular Dual Band Telephones	Pending	09/386,257	31-Aug-1999	TKHR	
	97RSS124	Method and System for Efficiently Transmitting Energy from an RF Device	Pending	09/361,865	27-Jul-1999	TKHR	
	97RSS125	Wide Frequency Range Couplers and Detectors for Power Detection in Multiple Frequency Band Systems	Pending	09/081,702	20-May-1998	TKHR	
	97RSS127	Integrated Power Management Module	Pending	09/060,426	14-Apr-1998	TKHR	
	97RSS178	System and Method for Receiving A Signal	Pending	09/409,484	30-Sep-1999	AGSHF	
	97RSS178/1	System and Method for Receiving A Signal	Pending	10/033,203	26-Dec-2001	AGSHF	
	97RSS203	Device, System and Method for Low Noise Radio Frequency Transmission	Pending	09/160,690	25-Sep-1998	FOLEY	
	97RSS205	Device and Process for Coupling Multi-Band Transmitters and Receivers and Communication System Employing Same	Pending	09/160,646	25-Sep-1998	FOLEY	
	97RSS206	System and Process for Shared Frequency Source Multi-Band Transmitters and Receivers	Pending	09/203,645	01-Dec-1998	FOLEY	
	97RSS329	Switchable High-Low Side Mixer for the Translational IC for Dual Mode Application	Pending	09/295,036	20-Apr-1999	KMOB	
	97RSS331	First Party Signalling for Call Waiting Calling Number Identification (CWCID) System	Pending	08/923,447	04-Sep-1997	AGSHF	

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	97RSS336	Direct Conversion Time Division Duplex, Radio, Direct Sequence Spread Spectrum Cordless Telephone	Pending	09/107,733	30-Jun-1998	KMOB	
	97RSS338	Techniques to Increase Data Transmission Rate of Spread Spectrum Communications Systems	Pending	09/325,107	03-Jun-1999	FOLEY	
	97RSS347	System and Method for Wireless Voice and Computer Communications	Pending	09/300,582	27-Apr-1999	AGSHF	
	97RSS347	System and Method for Wireless Voice and Computer Communications	Pending	09/974,769	09-Oct-2001	KMOB	
	97RSS362	Variable Gain Amplifier with High Linearity and Low Noise	Pending	09/163,892	30-Sep-1998	BHGL	
	97RSS371	Method for Programming a Radio Transceiver	Pending	09/410,217	30-Sep-1999	AGSHF	
	97RSS392	Adaptive Wireless Communication Receiver	Pending	09/163,797	30-Sep-1998	TKHR	
	97RSS449	Traffic Channel Quality Estimation from a Digital Control Channel	Pending	09/046,060	23-Mar-1998	KMOB	
	97RSS450	Power Management System for a Mobile Station	Pending	09/499,911	08-Feb-2000	KMOB	
	97RSS460	Convolution Decoding Terminated by an Error Detection Block Code with Distributed Parity Bits	Published	09/761,259	16-Jan-2001	KMOB	
	97RSS483	External Connector and Battery Extension Pack for a Portable Communication Device	Pending	09/137,194	20-Aug-1998	KMOB	
	97RSS494	Power Management System for a Mobile Unit by Reduced Neighbor Cell Scanning	Pending	09/084,534	26-May-1998	KMOB	
	97RSS503	Full-Duplex Speakerphone With Wireless Microphone	Pending	09/144,842	31-Aug-1998	AGSHF	
	97RSS518	Turbo Decoding of Trellis-Coded Modulations	Pending	09/410,220	30-Sep-1999	AGSHF	
	98RSS014	A Compact and Fast Cubic Function Generator	Pending	09/706,483	03-Nov-2000	KMOB	

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	98RSS024	Method of and Apparatus for Adaptation of an Echo Cancellor in a System With Multitasking	Pending	09/128,362	03-Aug-1998	KMOB	
	98RSS031	A Method and Apparatus for Dynamically Switching Between Speech Coding Techniques	Pending	09/153,631	15-Sep-1998	KMOB	
	98RSS064	System and Method for Providing a Trap and Patch Function to Low Power, Cost Conscious, and Space Constrained Applications	Pending	09/232,881	15-Jan-1999	HOWSM	
	98RSS069	System and Method for Communication Parameter Determination	Pending	09/157,209	18-Sep-1998	HOWSM	
	98RSS072	Apparatus and Method for Improving Power Control Loop Linearity	Pending	09/161,014	25-Sep-1998	HOWSM	
	98RSS088	Multi-Line Recording Device Having Reduced Processing and Storage Requirements	Pending	09/163,263	29-Sep-1998	LYON	
	98RSS097	Wireless Communications Device Allowing a Soft Handoff Procedure in a Mobile Communications System	Pending	09/342,165	28-Jun-1999	KMOB	
	98RSS112	Dynamic Range Reduction Circuitry for a Digital Communications Receiver	Pending	09/159,328	23-Sep-1998	PROCO	
	98RSS121	Frequency Hopping Spread Spectrum Modulation and Direct Sequence Spread Spectrum Modulation Cordless Telephone	Pending	09/137,198	20-Aug-1998	KMOB	
	98RSS165	A Method to Generate a Secure Wireless Link Between a Handset and Basestation in a Cordless Phone System Without Any Wired Connection ...	Pending	09/216,380	18-Dec-1998	KMOB	
	98RSS177	Method and Apparatus for Saving Power During Punctured Transmission of Mobile Communications	Pending	09/205,523	03-Dec-1998	KMOB	
	98RSS179	System and Method for Selecting Amplifiers in a Communications Device	Pending	09/222,063	29-Dec-1998	KMOB	
	98RSS180	System and Method for Selectively Interconnecting Amplifiers in a Communications Device	Pending	09/222,672	29-Dec-1998	KMOB	
	98RSS180	System and Method for Selectively Interconnecting Amplifiers in a Communications Device	Pending	09/222,672	23-Oct-2001	KMOB	
	98RSS189	Secondary Automatic Gain Control Loops for Direct Conversion CDMA Receivers	Pending	09/382,882	25-Aug-1999	KMOB	

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	98RSS201	System and Process for Shared Functional Block CDMA and GSM Communication Transceivers	Pending	09/298,315	23-Apr-1999	FOLEY	
	98RSS207	Method and System Which Uses Sound Wave Based Communication to Generate A Secure Wireless Link Between A Handset and Base Station	Pending	09/216,086	18-Dec-1998	KMOB	
	98RSS257	Programmable relaxation oscillator	Pending	09/302,754	30-Apr-1999	PROCO	
	98RSS276	System and Method for Amplifying a Cellular Radio Signal	Pending	09/408,754	30-Sep-1999	AGSHF	
	98RSS280	Power Amplifier Driver System for Wireless Handset	Pending	09/328,927	09-Jun-1999	HOWSM	
	98RSS283	Method and Apparatus for Filter Selection From Frequency Synthesizer	Pending	09/392,825	09-Sep-1999	FOLEY	
	98RSS291	Mixer Circuit with On-Chip Transformer	Pending	09/371,311	10-Aug-1999	KMOB	
	98RSS321	Dual Tune Input-Integrated VCO on a Chip	Pending	09/706,921	06-Nov-2000	WLSKZ	
	98RSS347	Performance Improvement of Internet Protocols Over Wireless Connections	Pending	09/375,607	17-Aug-1999	LYON	
	98RSS350	Programmable Frequency Divider	Pending	09/370,099	06-Aug-1999	HOWSM	
	98RSS350	Frequency Divider with Low Harmonics	Pending	09/821,833	30-Mar-2001	TKHR	
	98RSS351	Packaging of Surface Acoustic Wave (SAW) Filters on a Multi Chip Module	Pending	09/455,108	06-Dec-1999	AGSHF	
	98RSS396	Multi-Band Transceiver Having Multi-Slot Capability	Pending	09/387,038	31-Aug-1999	PROCO	
	99RSS012	System and Method for Cordless Telephonic Communication	Pending	09/756,039	05-Jan-2001	PROCO	
	99RSS025	System and Method For Variable Gain Coder-Decoder	Pending	09/845,840	30-Apr-2001	AGSHF	
	99RSS030	Multi-Band Filter System For Wireless Communication Receiver	Pending	09/330,646	11-Jun-1999	PROCO	

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	99RSS032	Differential Oscillator	Pending	09/675,239	29-Sep-2000	WLSKZ	
	99RSS037	System and Method for Receiving Analog and Digital Signals	Pending	09/383,122	25-Aug-1999	AGSHF	
	99RSS057	A Method to Combine the Detection of Stutter Dial Tone and VMWI FSK Signals Integrated Within a Telephone	Pending	09/299,202	23-Apr-1999	LYON	
	99RSS065	Direct Conversion Receiver	Pending	09/260,919	02-Mar-1999	HOWSM	
	99RSS065	Direct Conversion Receiver	Pending	09/386,865	31-Aug-1999	HOWSM	
	99RSS069	Peer-to-Peer Data Transfer Using Pre-existing Caller ID Class FSK Signaling Infrastructures	Pending	09/363,989	16-Jul-1999	PROCO	
	99RSS077	Local Area Internet Radio Receiver/Transmitter	Pending	09/407,149	28-Sep-1999	TKHR	
	99RSS078	System for Controlling a Class D Amplifier	Pending	09/814,196	21-Mar-2001	FOLEY	
	99RSS082	System and Process for Supporting Multiple Wireless Standards With a Single Circuit Architecture	Pending	09/410,136	30-Sep-1999	FOLEY	
	99RSS083	System for Using Adaptive Circuitry To Improve Performance and Provide Linearly and Dynamic Range on Demand	Pending	09/881,932	15-Jun-2001	FOLEY	
	99RSS085	Avoiding Interference from a Potentially Interfering Transmitter in a Wireless Communication	Pending	09/394,189	13-Sep-1999	AGSHF	
	99RSS085	Wireless Communications System Utilizing Directional Wireless Communication Device	Pending	09/821,110	29-Mar-2001	AGSHF	
	99RSS086	Cellular Handset with Adjustable Analog to Digital Conversion	Pending	09/410,205	30-Sep-1999	AGSHF	
	99RSS096	preprocessor and related frequency translator	Pending	09/261,056	02-Mar-1999	HOWSM	
	99RSS096	preprocessor and related frequency translator	Pending	09/386,956	27-Aug-1999	HOWSM	

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	99RSS102	Direct Sequence Spread Spectrum System with Enhanced Forward Error Correction Code Feature	Pending	09/427,041	19-Oct-1999	HOWSM	
	99RSS116	System and Method for Achieving Wireless Communications Coverage in a Local Area	Pending	09/409,297	29-Sep-1999	LYON	
	99RSS130	Hands-Free Activation of a Personal Communication Device	Pending	09/398,909	15-Sep-1999	LYON	
	99RSS136	Simple Dual Band Multi Time Slot Receiver Architecture	Pending	09/392,355	08-Sep-1999	PROCO	
	99RSS138	System of and Method for Compensating a Baseband Signal to Reduce Third Order Modulation Distortion	Pending	09/515,538	29-Feb-2000	HOWSM	
	99RSS161	A Novel Technique for Generation of Phase/Frequency Modulated Signals	Pending	09/398,911	14-Sep-1999	PROCO	
	99RSS172	A Balun Circuit for Combining Differential Power Amplifier Outputs	Pending	09/386,863	31-Aug-1999	HOWSM	
	99RSS174	A Gmc Filter and Method for Suppressing Unwanted Signals Introduced by the Filter	Pending	09/663,848	18-Sep-2000	WLSKZ	
	99RSS199	Method and Apparatus for Multiple Phase Splitting for Dual Band IQ Subharmonic Mixer	Pending	09/506,302	17-Feb-2000	WLSKZ	
	99RSS213	Dynamically Varying Linearity System for an RF Front-End of a Communication Device	Pending	09/811,082	16-Mar-2001	SNR	
	99RSS232	Smart Current System for Dynamically Varying the Operating current of a Frequency Source in a Receiver	Pending	09/793,744	26-Feb-2001	SNR	
	99RSS297	System of and Method for Reducing or Eliminating the Unwanted Sideband in the Output of a Transmitter Comprising a Quadrature Modulator Followed by a Translational Loop	Pending	09/514,501	29-Feb-2000	HOWSM	
	99RSS301	DMA Channel for High-Speed Asynchronous Data Transfer	Pending	09/550,852	17-Apr-2000	AGSHF	
	99RSS305	Doherty Power Amplifier With Integrated Quarter Wave Transformer/Combiner Circuit	Pending	09/761,100	16-Jan-2001	HOWSM	
	99RSS310	System of and Method for Reducing or Eliminating the Unwanted Sideband in a Signal Derived from the Output of a Quadrature Modulator	Pending	09/515,633	29-Feb-2000	HOWSM	

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	99RSS313	System for Associating User Selectable Information in Wireless Devices	Pending	09/842,601	26-Apr-2001	FARJ	
	99RSS316	Power Amplifier Saturation Detection and Compensation	Pending	09/651,801	30-Aug-2000	HOWSM	
	99RSS358	Low-Power Method of Interference Cancellation in GSM Receiver	Pending	09/634,081	08-Aug-2000	WLSKZ	
	99RSS359	Signal Detector With Echo Cancellation	Pending	09/792,816	23-Feb-2001	WEI	
	99RSS386	High Efficiency Multiple Power Level Amplifier	Pending	09/686,440	10-Oct-2000	TKHR	
	99RSS397	Non-Linear Transistor Circuits with Thermal Stability	Pending	09/871,517	31-May-2001	TKHR	
	99RSS404	System for Using a Local Wireless Network to Control a Device Within Range of the Network	Pending	09/658,729	11-Sep-2000	LYON	
	99RSS405	System For Eight Phase 45 Degree Polypase Filter With Amplitude Matching	Pending	09/666,501	18-Sep-2000	WLSKZ	
	99RSS406	Polypase Tuning for Phase Calibration	Pending	09/823,299	30-Mar-2001	TKHR	
	99RSS410	Stacked Core Half-LO Mixer	Pending	09/668,879	25-Sep-2000	WLSKZ	
	99RSS422	Temperature Compensation Module	Pending	09/712,771	13-Nov-2000	WEI	
	99RSS426	Trap and Patch System for Virtual Replacement of Defective Volatile Memory Cells	Pending	09/671,401	27-Sep-2000	GBC	
	99RSS429	Zero-Overhead Symbol Rate Adaptation System for OVSF Code	Pending	09/718,985	22-Nov-2000	GBC	
	99RSS461	Programmable Silent Ringing System for Communication Systems	Pending	09/650,543	30-Aug-2000	GBC	
	99RSS468	System and Apparatus for a Direct Conversion Receiver and Transmitter	Pending	09/621,407	21-Jul-2000	AGSHF	

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	99RSS479	Even Order Non-Linearity Correction Feedback for Gilbert Style Mixers	Pending	09/811,133	16-Mar-2001	SNR	
	99RSS497	Adaptive Configurable Demodulation System With Multiple Operating Modes	Pending	09/710,764	08-Nov-2000	HOWSM	
	99RSS498	Digital Phase/Frequency Detector	Pending	09/799,822	05-Mar-2001	HOWSM	
	99RSS500	Burst Detector	Pending	09/735,369	12-Dec-2000	HOWSM	
	99RSS504	Variable-Slope Variable-Gain Amplifier	Pending	09/686,669	11-Oct-2000	TKHR	
	97RSS010 (PTD)	Methods for Wireless Testing of Integrated Circuits	Pending	09/764,689	16-Jan-2001	TKHR	
	98RSS266 (PTD)	Electrostatic Discharge Protection Circuit	Pending	09/738,127	15-Dec-2000	TKHR	
	00CXT0290T (PTD)	Improved Transformer Comprising Stacked Inductors	Pending	09/797,307	01-Mar-2001	FARJ	
	00CXT0335T (PTD)	On-Chip Transformers	Pending	09/779,402	08-Feb-2001	FARJ	
	00CXT0622W	Systems for Testing Integrated Circuits	Pending	09/822,920	30-Mar-2001	TKHR	
	97RSS064 CON	A Transistor Having a Novel Layout and an Emitter Having More Than One Feed Point	Pending	09/687,381	13-Oct-2000	TKHR	
	97RSS064 CIP	Transistor Layout	Pending	09/861,921	21-May-2001	TKHR	
	97RSS313	Method and Apparatus for Detecting and Correcting Errors Using Cyclic Redundancy Check	Pending	09/103,421	24-Jun-1998	KMOB	
	97RSS465	Envelope Feedforward Technique with Power Control for Efficient Linear RF Power Amplification	Pending	09/108,628	01-Jul-1998	KMOB	
	98RSS275	RF Transmitter with Extended Efficient Power Control Range	Pending	09/482,121	11-Jan-2000	BHGL	
	99RSS013	RF Transmitter with Extended Efficient Power Control Range	Pending	09/481,094	11-Jan-2000	JAOA	

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	99RSS133	Apparatus and Method for Connecting a Cellular Telephone to a Universal Serial Bus	Pending	09/312,064	13-May-1999	LYON	
	99RSS339 (PTD)	Electrical Contact for Compound Semiconductor Device and Method For Forming Same	Pending	09/675,023	28-Sept-2000	TKHR	
	99RSS385 (PTD)	Electrical Contact for Compound Semiconductor Device & Method for Forming Same	Pending	09/580,323	26-May-2000	TKHR	
	00CXT0289T (PTD)	Modified HBT Collector Design for Increased Robustness	Pending	10/034,880	26-Dec-2001	FARJ	
	99RSS143 (PTD)	Electrostatic Discharge Protection Circuit	Pending	09/519,214	3-Mar-2001	TKHR	
	99RSS081 (PID)	Critical Path Adaptive Power Control	Pending	09/814,921	22-Mar-2001	FOLEY	
	97RSS475	Polarization-Adaptive Antenna Transmit Diversity System	Pending	09/103,417	24-Jun-1998	KMOB	
	97RSS477	Using Channel Loading Statistics to Determine Whether to Search for a New Channel in a Wireless Communication System	Pending	09/201,076	30-Nov-1998	AGSHF	
	98RSS173	Muting Method for ADPCM Coded Speech Signal Without Performance Critical Threshold Comparisons	Pending	09/234,243	20-Jan-1999	LYON	
	98RSS284	Efficient Accurate Controller for Envelope Feedforward Power Amplifiers	Pending	09/409,818	30-Sep-1999	FOLEY	
	99RSS133	Apparatus and Method for Connecting a Cellular Telephone to a Universal Serial Bus	Pending	09/312,064	13-May-1999	LYON	
	99RSS292	Device-Independent Interface for Embedded Telephone Applications to a Wireless Spread-Spectrum Link and Audio Processor	Pending	09/479,127	07-Jan-2000	WLSKZ	
	00CXT0430IW (PID)	System and Method for Processing Audio and Video Data in a Wireless Handset	Pending	09/631,511	03-Aug-2000	AGSHF	
	00CXT0431IW (PID)	System and Method for Processing Audio and Video Data in a Wireless Handset	Pending	09/631,508	03-Aug-2000	AGSHF	

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	96E005/1 (PTD)	Pre-Quantization in Motion Compensated Videocoding	Pending	09/828,535	06-Apr-2001	FARJ	
	98RSS004 (MindSpeed)	System and Method for Adaptive Multirate (AMR) Vocoder	Pending	09/080,013	15-May-1998	FARJ	
	99RSS284 (PCD)	Speaker-Phone System Change and Double-Talk Detection	Pending	09/675,291	29-Sep-2000	AGSHF	
	00CXT0249T (PTD)	New Low Cost CSP FC Leadframe Package for Low Pin Count RF Applications	Pending	10/013,023	05-Nov-2001	FARJ	PACKAGING
	00CXT0326T (PTD)	Chip Through Board Packaging Technique to Reduce Thermal Resistance and Increase Heat Dissipation	Pending	10/013,130	07-Dec-2001	FARJ	PACKAGING - Combined with 00CXT0527T
	00CXT0663T (PTD)	A Leadframe with an Exposed Paddle for Up to 10 GHz Digital Data Transmission Applications	Pending	10/012,792	13-Nov-2001	FARJ	PACKAGING
	00CXT0674T (PTD)	Voltage Regulation for Semiconductors Dies and Related Structure	Pending	09/971,162	05-Oct-2001	FARJ	PACKAGING
	01CXT0047T (PTD)	Low Cost, Off Chip Inductor with High Repeatability	Pending	10/016,309	02-Nov-2001	FARJ	PACKAGING
	01CXT0124T (PTD)	Laminate Package Embedded Antenna	Pending	10/026,134	22-Dec-2001	FARJ	PACKAGING
	01CXT0125T (PTD)	Shielded Printed Antenna on LGA/BGA Package	Pending	10/020,105	15-Dec-2001	FARJ	PACKAGING
	99RSS043CIP (PTD)	Cooling System for Pulsed Power Electronics	Pending	09/661,490	14-Sep-2000	FARJ	PACKAGING
	99RSS115	Multiple Chip Module With Integrated RF Capabilities	Pending	10/020,380	30-Oct-2001	FARJ	PACKAGING
	99RSS192 (PTD)	Integration of Passives (e.g. Transformer, Inductor, and Capacitor) on Chip by Utilizing the UBM (Under Bump Metallization) of the Flip Chip Process Together with the Thick Last Metal Layer of the Chip	Pending	10/025,438	18-Dec-2001	FARJ	PACKAGING

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	98RSS411 (PTD)	Method and Apparatus Suitable for Forming a Microelectronic Device Package	Pending	09/413,552	06-Oct-1999	TKHR	PACKAGING
	99RSS043 (PTD)	Method and Structure for Temperature Stabilization in Flip Chip Technology	Pending	09/266,376	11-Mar-1999	FOLEY	PACKAGING
	99RSS008 (PTD)	Method of Molding Shield Structures in Over-Molded Chip Carriers	Pending	09/644,035	22-Aug-2000	FARJ	PACKAGING
	99RSS205 (PTD)	Method and Structure for Securing a Mold Compound to a Printed Circuit Board	Pending	09/638,172	11-Aug-2000	FARJ	PACKAGING
	99RSS215 (PTD)	A New Leadframe Design for Deep Downset Packages to Avoid Paddle Backside Molding	Pending	09/648,879	25-Aug-2000	FARJ	PACKAGING
	00CXT0277T (PTD)	50 OHM Transmission Line for the RDL Routing On Flip Chip Bonded Chips	Pending	10/012,812	15-Nov-2001	FARJ	PACKAGING
	99RSS207 (PTD)	Locking Mechanism for the Paddle of a Deep Downset of a Leadframe Package to Increase Adhesion of Mold	Pending	09/599,210	22-Jun-2000	FARJ	PACKAGING
	98RSS246CIP (PTD)	Structure and Method for Fabrication of a Leadless Chip Carrier	Pending	09/878,815	11-Jun-2001	FARJ	PACKAGING
	98RSS246CIP (PTD)	Leadless Flip Chip Carrier Design and Structure	Pending	09/877,912	08-Jun-2001	FARJ	PACKAGING
	98RSS246CIP (PTD)	Structure and Method for Fabrication of a Leadless Chip Carrier with Embedded Inductor	Pending	09/930,747	14-Aug-2001	FARJ	PACKAGING
	98RSS246CIP (PTD)	Structure and Method for Fabrication of a Leadless Multi-Die Carrier	Pending	09/894,728	28-Jun-2001	FARJ	PACKAGING
	98RSS246CIP (PTD)	Structure and Method for Fabrication of a Leadless Chip Carrier with Embedded Antenna	Pending	09/916,666	26-Jul-2001	FARJ	PACKAGING
	98RSS246CON (PTD)	Leadless Chip Carrier Design and Structure	Pending	09/713,834	15-Nov-2000	FARJ	PACKAGING
	00CXT0827T (PTD)	A High Inductance Inductor In A Semiconductor Package	Pending	09/972,706	05-Oct-2001	FARJ	PACKAGING

Tab	Case Number	App Title	Status	App No	File Date	Agent	COMMENT
	00CXT0739W	Signal Processor for Reducing Undesirable Signal Content	Pending	09/127,844	03-Aug-1998		
	00CXT0749W	Inverted Super Regenerative Receiver	Pending	09/435,647	09-Nov-1999		
	00CXT0750W	A Frequency/ Phase Comparison Circuit with Gated Reference and Signal Inputs	Pending	09/491,875	27-Jan-2000		
	00CXT0753W	Low Voltage Transconductance Amplifier/Filters	Pending	09/676,597	29-Sep-2000		
	00CXT0755W	Complex Phase-Locked Loop Demodulator for Low-IF and Zero-IF Radio Receivers	Pending	09/676,233	29-Sep-2000		
	00CXT0756W	Delta-Sigma Based Dual-Port Modulation Scheme And Calibration Techniques For Similar Modulation Schemes	Pending	09/628,330	28-Jul-2000		
	00CXT0758W	Complex AGC/Filtering Radio Receiver Architecture for Low-IF or Zero IF	Pending	09/675,513	29-Sep-2000		
	00CXT0760W	Radio Calibration by Correcting the Crystal Frequency	Pending	09/702,691	01-Nov-2000		
	00CXT0761W	Linear Low Noise Phase Locked Loop Frequency Synthesizer Using Controlled Divider Pulse Widths	Pending	09/753,626	04-Jan-2001		
	00CXT0762W	Delta-Sigma Modulator for Fractional-N Frequency Synthesis	Pending	09/753,581	04-Jan-2001		
	00CXT0763W	Balanced Mixer with a Feedback Preamplifier	Pending	09/088,745	02-Jun-1998		
	00CXT0764W	Frequency Synthesizer	Pending	09/629,484	31-Jul-2000		
	00CXT0765W	ESD Protection in Mixed Signal ICS	Pending	09/545,887	07-Apr-2000		
	01CXT0166W	Low Power Bandgap Circuit	Pending	10/008,442	06-Dec-2001		

PATENT

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