| FORM PTO-1595
1-31-92

Docket No. 240/107, 242/291, 243/259,
236/112, 237/248, 240/109, 240/148,
241/100, 242/233, 243/260, 246/259,
248/295 | **RECOF** | ‖‖‖‖‖‖‖‖‖‖‖‖‖‖
102201315 | **U.S. DEPARTMENT OF COMMERCE**
Patent and Trademark Office |

To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof.

1. Name of conveying party(ies): *08·19·02* Conexant Systems, Inc. Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No	2. Name and address of receiving party: Name: <u>Washington Sub, Inc.</u> Internal Address: _____
3. Nature of conveyance: ☒ Assignment ☐ Merger ☐ Security Agreement ☐ Change of Name ☐ Other _____ Execution Date: <u>June 25, 2002</u>	City: _____ State: _____ Zip: _____ Street Address: <u>4311 Jamboree Road</u> City: <u>Newport Beach</u> State: <u>CA</u> Zip: <u>92660-3095</u> Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s):
    If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No(s).: <u>See Exhibit A attached</u>	B. Patent No(s).: <u>See Exhibit A attached</u>

<div align="center">Additional numbers attached? ☒ Yes ☐ No</div>

5. Name and address of party to whom correspondence concerning document should be mailed:
Name: <u>G. Peter Albert, Jr.</u>
 	
Internal Address: LYON & LYON LLP
                     633 West Fifth Street, Suite 4700
                     Los Angeles, CA 90071-2066
	6. Total number of applications and patents involved: <u>12</u>

	7. Total fee (37 CFR 3.41): $ 480.00
	   ☐ Enclosed
	
	   ☒ Charge this Deposit Account the requisite fee and if any additional fee is required

	8. Deposit Account Number: **12-2475**

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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.

_____   Date: <u>August 12, 2002</u>

G. Peter Albert, Jr., Reg. No. 37,268

<div align="center">Total number of pages including cover sheet: 11</div>

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PATENT
REEL: 013203 FRAME: 0801

</div>

Recordation Form Cover Sheet
Conexant Systems, Inc. - Washington Sub, Inc.

Exhibit A

U.S. Patent Nos.

6,049,724
6,249,190
6,262,623

U.S. Application Serial Nos.

09/163,263
09/234,243
09/299,202
09/312,064
09/375,607
09/398,909
09/409,297
09/658,729
09/756,039

ASSIGNMENT OF INVENTIONNS, PATENTS, PATENT APPLICATIONS AND TRAADEMARKS

WHEREAS, CONEXANT SYSTEMS, INCC. ("Assignor"), a Delaware corporation with an office at 4311 Jamboree Road, Newpoort Beach, California 92660-3095, owns or has rights to certain inventions, patents, ppatent applications and trademarks identified in the attached Schedule entitleod "IP SCHEDULE A";
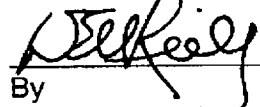
WHEREAS, WASHINGTON SUB, INC. ("("Assignee"), a Delaware corporation with an office at 4311 Jamboree Road, Newport BBeach, California 92660-3095, wishes to acquire full rights and ownership of said irinventions, patents, patent applications and trademarks.

NOW THEREFORE, for good and valuablole consideration, the receipt and sufficiency of which are hereby acknowledged, Assiggnor grants, conveys, assigns and transfers to the Assignee and the Assignee's succeessors and assigns, Assignee's entire right, title and interest in and to said inventions, i, patents, patent applications and trademarks listed on the attached Scheduule identified as "IP SCHEDULE A", including all corresponding applications suuch as continuations, continuations-in-part, divisionals, provisionals, reissues, reexamminations, and foreign counterparts thereof, along with the subject matter of any and alall claims which may be obtained in the aforementioned, in the United States and l every foreign country, including all rights to profits and damages by reason of past infifringement by any party or parties, with the right to sue and collect same for Assigneee's, and Assignee's successors and assigns own use and benefit.

UPON SAID CONSIDERATION, Assignoor appoints Assignee and Assignee's successors and assigns as its attorney-in-1-fact to act in Assignor's name and place to execute, deliver and record any documenht or instrument of assignment or conveyance necessary to perfect, grant, aand confirm the rights granted herein, and Assignor conveys to the Assignee the righht to make application, prosecute, receive and enforce in its own behalf and name thhe inventions, patents, patent applications and trademarks of "IP SCHEDULE A" in thhe United States and all foreign countries and to claim priority therefrom under the PPatent Cooperation Treaty, the International Convention and/or any other international l arrangement.

IN WITNESS WHEREOF, Assignor has ccaused this Assignment to be duly executed by one of its officers on the date shown beelow.
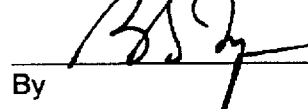
CONEXANT SYSTEMS, INC.

By _____

___Dennis O'Reilly___
Name

__General Counsel & Secretary__
Title

Date: June 25, 2002

WASHINGTON SUB, INC.

By _____
Balakrishnan S. Iyer

_____
Name

_____
Title

IP SCHEDULE A

Tab	Case Number	App Title	Status	App Number	File Date	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	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	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	6,301,287	09-Oct-2001	
19	96E006	Ultra-Clean Voltage Power Supply Generator	Granted	08/892,444	14-Jul-1997	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	6,281,758	28-Aug-2001	
21	97RSS053	Timing Estimation in Mobile Communication Systems Using Parabolic Interpolator	Granted	09/163,640	30-Sep-1998	6,219,345	17-Apr-2001	
22	97RSS060	A Method and ... *(illegible)*						
22	97RSS060	A Method and an Apparatus for Positioning System Assisted Cellular Radiotelephone Handoff and Dropoff	Granted	09/025,962	19-Feb-1998	6,327,471	04-Dec-2001	
23	97RSS081	Cellular Radiotelephone Having Answering Machine/Voice Memo Capability with Parameter-Based Speech Compression and Decompression	Granted	09/026,619	20-Feb-1998	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	6,236,071	22-May-2001	
25	97RSS066	Voltage Upconverter for Portable Time Divisional Multiple Access Radio	Granted	09/047,242	24-Mar-1998	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	6,037,834	14-Mar-2000	
27	97RSS105	Universal Radio Architecture for Low-Tier Personal Communication System	Granted	08/348,359	30-Nov-1994	5,648,985	15-Jul-1997	PCSI P035US Exhibit 2

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IP SCHEDULE A

Tab	Case Number	App Title	Status	App Number	Filed Date	Patent Number	Issue Date	Comment
84	98RSS238	Phaser/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	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	6,255,912	03-Jul-2001	
86	98RSS259	Gated delay-locked loop for clock generation applications	Granted	09/302,755	30-Apr-1999	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	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	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	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	6,208,844	27-Mar-2001	
91	98RSS280	Power Amplifier Driver System for Wireless Handset	Granted	09/328,927	09-Jun-1999	6,339,361	15-Jan-2002	
92	98RSS285	Power Amplification Using A Direct-Upconverting Quadrature Mixer Topology	Granted	09/318,482	25-May-1999	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	6,242,975	05-Jun-2001	
94	98RSS304	Phase-Locked Loop Having Temperature-Compensated Bandwidth Control	Granted	09/314,898	19-May-1999	6,211,743	03-Apr-2001	
95	98RSS307	Log-Domain Filter Having a Variable Dynamic Range Window	Granted	09/322,401	28-May-1999	6,262,623	17-Jul-2001	

IP SCHEDULE A

PN#	Case Number	App Title	Status	App Number	File Date	Pat Number	Issue Date	Comment
96	98RSS319	Six Inverting Amplifier Transconductance Stage and Methods for its Use	Granted	09/385,225	27-Aug-1999	6,191,655	20-Feb-2001	
97	98RSS336	Method and Apparatus for Extending a VCO Tuning Range	Granted	09/498,378	03-Feb-2000	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	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	6,255,906	03-Jul-2001	
100	99RSS025	System and Method For Variable Gain Coder-Decoder	Granted	09/378,325	20-Aug-1999	6,252,528	26-Jun-2001	
101	99RSS042	Differential Oscillator	Granted	09/386,957	25-Aug-1999	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	6,304,842	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	
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	PCSI P013US Exhibit 2
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		198,085	17-Feb-1994	5,533,048	02-Jul-1996	
107	99RSS357	Method of Internal Interference Cancellation in TDMA Receiver	Granted	09/495,993	01-Feb-2000	6,259,752	10-Jul-2001	

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IP SCHEDULE A

Ref. No.	Title	Status	Application No.	Date
98RSS088	Multi-Line Recording Device Having Reduced Processing and Storage Requirements	Pending	09/163,263	29-Sep-1998
98RSS097	Wireless Communications Device Allowing a Soft Handoff Procedure in a Mobile Communications System	Pending	09/342,165	28-Jun-1999
98RSS112	Dynamic Range Reduction Circuitry for a Digital Communications Receiver	Pending	09/159,328	23-Sep-1998
98RSS121	Frequency Hopping Spread Spectrum Modulation and Direct Sequence Spread Spectrum Modulation Cordless Telephone	Pending	09/137,198	20-Aug-1998
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
98RSS177	Method and Apparatus for Saving Power During Punctured Transmission of Mobile Communications	Pending	09/205,523	03-Dec-1998
98RSS179	System and Method for Selecting Amplifiers in a Communications Device	Pending	09/222,063	29-Dec-1998
98RSS180	System and Method for Selectively Interconnecting Amplifiers in a Communications Device	Pending	09/222,672	29-Dec-1998
------	System and Method for Selectively Interconnecting Amplifiers in a Communications Device	Pending	09/222,012	29-Dec-1998
98RSS180	System and Method for Selectively Interconnecting Amplifiers in a Communications Device	Pending		23-Oct-2001
98RSS189	Secondary Automatic Gain Control Loops for Direct Conversion CDMA Receivers	Pending	09/382,882	25-Aug-1999
98RSS201	System and Process for Shared Functional Block CDMA and GSM Communication Transceivers	Pending	09/298,315	23-Apr-1999
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
98RSS257	Programmable relaxation oscillator	Pending	09/302,754	30-Apr-1999
98RSS276	System and Method for Amplifying a Cellular Radio Signal	Pending	09/408,754	30-Sep-1999
98RSS280	Power Amplifier Driver System for Wireless Handset	Pending	09/328,927	09-Jun-1999
98RSS283	Method and Apparatus for Filter Selection From Frequency Synthesizer	Pending	09/392,825	09-Sep-1999

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ID	Title	Status	App. No.	Date
98RSS291	Mixer Circuit with On-Chip Transformer	Pending	09/371,311	10-Aug-1999
98RSS321	Dual Tune Input-Integrated VCO on a Chip	Pending	09/706,921	06-Nov-2000
98RSS347	Performance Improvement of Internet Protocols Over Wireless Connections	Pending	09/375,607	17-Aug-1999
98RSS350	Programmable Frequency Divider	Pending	09/370,099	06-Aug-1999
98RSS350	Frequency Divider with Low Harmonics	Pending	09/821,833	30-Mar-2001
98RSS351	Multi Chip Module	Pending	09/455,108	06-Dec-1999
98RSS396	Packaging of Surface Acoustic Wave (SAW) Filters on a Multi-Band Transceiver Having Multi-Slot Capability	Pending	09/387,038	31-Aug-1999
99RSS012	System and Method for Cordless Telephonic Communication	Pending	09/756,039	05-Jan-2001
99RSS025	System and Method For Variable Gain Coder-Decoder	Pending	09/845,840	30-Apr-2001
99RSS030	Multi-Band Filter System For Wireless Communication Receiver	Pending	09/330,646	11-Jun-1999
99RSS032	Differential Oscillator	Pending	09/675,239	29-Sep-2000
99RSS037	System and Method for Receiving Analog and Digital Signals	Pending	09/383,122	25-Aug-1999
-------	[System and Method for receiving analog and digital signals]	Pending	09/383,1__	25-Aug-1999
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
99RSS065	Direct Conversion Receiver	Pending	09/260,919	02-Mar-1999
99RSS065	Direct Conversion Receiver	Pending	09/386,865	31-Aug-1999
99RSS069	Peer-to-Peer Data Transfer Using Pre-existing Caller ID Class FSK Signaling Infrastructures	Pending	09/363,989	16-Jul-1999
99RSS077	Local Area Internet Radio Receiver/Transmitter	Pending	09/407,149	28-Sep-1999
99RSS078	System for Controlling a Class D Amplifier	Pending	09/814,196	21-Mar-2001
99RSS082	System and Process for Supporting Multiple Wireless Standards With a Single Circuit Architecture	Pending	09/410,138	30-Sep-1999
99RSS083	System for Using Adaptive Circuitry To Improve Performance and Provide Linearity and Dynamic Range on Demand	Pending	09/881,932	15-Jun-2001

ID	Title	Status	App. No.	Date
99RSS085	Avoiding Interference from a Potentially Interfering Transmitter in a Wireless Communication	Pending	09/394,189	13-Sep-1999
99RSS085	Wireless Communications System Utilizing Directional Wireless Communication Device	Pending	09/821,110	29-Mar-2001
99RSS086	Cellular Handset with Adjustable Analog to Digital Conversion	Pending	09/410,205	30-Sep-1999
99RSS096	preprocessor and related frequency translator	Pending	09/261,056	02-Mar-1999
99RSS096	preprocessor and related frequency translator	Pending	09/386,956	27-Aug-1999
99RSS102	Direct Sequence Spread Spectrum System with Enhanced Forward Error Correction Code Feature	Pending	09/427,041	19-Oct-1999
99RSS116	System and Method for Achieving Wireless Communications Coverage in a Local Area	Pending	09/409,297	29-Sep-1999
99RSS130	Hands-Free Activation of a Personal Communication Device	Pending	09/398,909	15-Sep-1999
99RSS136	Simple Dual Band Multi Time Slot Receiver Architecture	Pending	09/392,355	08-Sep-1999
99RSS138	System of and Method for Compensating a Baseband Signal to Reduce Third Order Modulation Distortion	Pending	09/515,538	29-Feb-2000
99RSS161	A Novel Technique for Generation of Phase/Frequency Modulated Signals	Pending	09/398,911	14-Sep-1999
99RSS172	A Balun Circuit for Combining Differential Power Amplifier Outputs	Pending	09/386,863	31-Aug-1999
99RSS174	A GmC Filter and Method for Suppressing Unwanted Signals Introduced by the Filter	Pending	09/663,848	18-Sep-2000
99RSS199	Method and Apparatus for Multiple Phase Splitting for Dual Band IQ Subharmonic Mixer	Pending	09/506,302	17-Feb-2000
99RSS213	Dynamically Varying Linearity System for an RF Front-End of a Communication Device	Pending	09/811,082	16-Mar-2001
99RSS232	Smart Current System for Dynamically Varying the Operating current of a Frequency Source in a Receiver	Pending	09/793,744	26-Feb-2001
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	Pending	09/514,501	29-Feb-2000

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99RSS301	Translational Loop	Pending	09/550,852	17-Apr-2000
99RSS305	DMA Channel for High-Speed Asynchronous Data Transfer	Pending	09/761,100	16-Jan-2001
99RSS310	Doherty Power Amplifier With Integrated Quarter Wave Transformer/Combiner Circuit	Pending	09/515,633	29-Feb-2000
99RSS313	System of and Method for Reducing or Eliminating the Unwanted Sideband in a Signal Derived from the Output of a Quadrature Modulator	Pending	09/842,601	26-Apr-2001
99RSS316	System for Associating User Selectable Information in Wireless Devices	Pending	09/651,801	30-Aug-2000
99RSS358	Power Amplifier Saturation Detection and Compensation	Pending	09/634,081	08-Aug-2000
99RSS359	Low-Power Method of Interference Cancellation in GSM Receiver	Pending	09/792,816	23-Feb-2001
99RSS386	Signal Detector With Echo Cancellation	Pending	09/686,440	10-Oct-2000
99RSS397	High Efficiency Multiple Power Level Amplifier	Pending	09/871,517	31-May-2001
99RSS404	Non-Linear Transistor Circuits with Thermal Stability	Pending	09/658,729	11-Sep-2000
99RSS40_ [obscured]	System for Using a Local Wireless Network to Control a Device Within Range of the Network	Pending	[illegible]	[illegible]
99RSS405	System For Eight Phase 45 Degree Polyphase Filter With Amplitude Matching	Pending	09/666,501	18-Sep-2000
99RSS406	Polyphase Tuning for Phase Calibration	Pending	09/823,299	30-Mar-2001
99RSS410	Stacked Core Half-LO Mixer	Pending	09/668,879	25-Sep-2000
99RSS422	Temperature Compensation Module	Pending	09/712,771	13-Nov-2000
99RSS428	Trap and Patch System for Virtual Replacement of Defective Volatile Memory Cells	Pending	09/671,401	27-Sep-2000
99RSS429	Zero-Overhead Symbol Rate Adaptation System for OVSF Code	Pending	09/718,985	22-Nov-2000
99RSS461	Programmable Silent Ringing System for Communication Systems	Pending	09/650,543	30-Aug-2000
99RSS468	System and Apparatus for a Direct Conversion Receiver and Transmitter	Pending	09/621,407	21-Jul-2000

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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
99RSS339 (PTD)	Electrical Contact for Compound Semiconductor Device and Method For Forming Same	Pending	09/675,023	28-Sept-2000
99RSS385 (PTD)	Electrical Contact for Compound Semiconductor Device & Method for Forming Same	Pending	09/580,323	26-May-2000
00CXT0289T (PTD)	Modified HBT Collector Design for Increased Robustness	Pending	10/034,880	26-Dec-2001
99RSS143 (PTD)	Electrostatic Discharge Protection Circuit	Pending	09/519,214	3-Mar-2001
99RSS081 (PID)	Critical Path Adaptive Power Control	Pending	09/814,921	22-Mar-2001
97RSS475	Polarization-Adaptive Antenna Transmit Diversity System	Pending	09/103,417	24-Jun-1998
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
98RSS173	Muting Method for ADPCM Coded Speech Signal Without Performance Critical Threshold Comparisons	Pending	09/234,243	20-Jan-1999
98RSS284	Efficient Accurate Controller for Envelope Feedforward Power Amplifiers	Pending	09/409,818	30-Sep-1999
99RSS133	Apparatus and Method for Connecting a Cellular Telephone to a Universal Serial Bus	Pending	09/312,064	13-May-1999
99RSS292	Device-Independent Interface for Embedded Telephone Applications to a Wireless Spread-Spectrum Link and	Pending	09/479,127	07-Jan-2000
00CXT0430I/W (PID)	System and Method for Processing Audio and Video Data in a Wireless Handset	Pending	09/631,511	03-Aug-2000
00CXT0431I/W (PID)	System and Method for Processing Audio and Video Data in a Wireless Handset Audio Processor	Pending	09/631,508	03-Aug-2000
96E005/1	Pre-Quantization in Motion Compensated Videocoding	Pending	09/828,535	06-Apr-2001

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