03-13-2003

S. DEPARTMENT OF COMMERCE

Form PTO-1595 RECOF (Rev. 03/01) U.S. Patent and Trademark Office OMB No. 0651-0027 (exp. 573112002) 102389197 Tab settings ⇒ ⇒ ⇒ To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof. 1. Name of conveying party(ies): 2. Name and address of receiving party(ies) PHILSAR SEMICONDUCTOR, INC. Name: WASHINGTON SUB, Inc. Internal Address: __ Additional name(s) of conveying party(ies) attached? 🖵 Yes 🔲 No 3. Nature of conveyance: 4311 Jamboree Road, Newport Beach, Assignment Merger Merger Street Address: California 92660-3095 Security Agreement Change of Name Other___ City:_____State: Zip: June 25, 2002 Execution Date: 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) B. Patent No.(s) 09/491,875 Additional numbers attached? The Yes The No. 5. Name and address of party to whom correspondence 6. Total number of applications and patents involved: concerning document should be mailed: 7. Total fee (37 CFR 3.41).....\$ \$40.00 Name: John D. Harris Gowling Lafleur Henderson LLP ☐ Enclosed Internal Address: 160 Elgin Street, Suite 2600 Authorized to be charged to deposit account Ottawa, Ontario K1P 1C3 8. Deposit account number: Street Address:__ 50-1644 (Attach duplicate copy of this page if paying by deposit account) __State:_____Zip:____ DO NOT USE THIS SPACE 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. John D. Harris Name of Person Signing Total number of pages including cover sheet, attachments, and documents:

ments to be recorded with required cover sheet information to:

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Commissioner of Patents & Trademarks, Box Assignments Washington, D.C. 20231

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PATENT

REEL: 013825 FRAME: 0938

ASSIGNMENT OF INVENTIONS, PATENTS, PATENT APPLICATIONS AND TRADEMARKS

WHEREAS, PHILSAR SEMICONDUCTOR, INC ("Assignor"), a company organized under the laws of Canada, with an office at 146 Colonnade Road, Nepean, Ontario, Canada, K2E 7Y, owns or has rights to certain inventions, patents, patent applications and trademarks identified in the attached Schedule entitled "IP SCHEDULE B";

WHEREAS, WASHINGTON SUB, INC. ("Assignee"), a Delaware corporation with an office at 4311 Jamboree Road, Newport Beach, California 92660-3095, wishes to acquire full rights and ownership of said Inventions, patents, patent applications and trademarks.

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

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

IN WITNESS WHEREOF, Assignor has caused this Assignment to be duly executed by one of its officers on the date shown below.

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PHILSAR SEMICONDUCTOR, INC.	WASHINGTON SUB, INC.
Mohy F. Abdulgang By	By By
Mohy F. Abdelgany Name	Balakrishnan S. Iyer Name
VP-RFB4	Title

Date: June 25, 2002

REEL: 013825 FRAME: 0939

SCHEDULE B (6/04/02)

Conexant Docket No.	Туре	App. No./ File Date	Pat. No./ Issue Date	Status	Inventor(s)	
00CXT0736W (1-1)	Cdn patent appln	2,204,455 5/5/97		Abandoned	Beriault; Lussier	
00CXT0736W (1-2)	US patent appin	09/071,93 7 5/5/98		Abandoned	Beriault; Lussier	
00CXT0737W 2-1	Cdn patent appin			Closed/Not Assigned	Not available	iilable
00CXT0738W	Cdn patent appin			Closed/Not Assigned	Not available	ilable
00CXT0739W (4-1)	Cdn preliminary patent appln	2,209,509 8/1/97		Abandoned	Yu; Snelgrove	grove
00CXT0739W (4-2)	Cdn patent appln	2,244,446 7/31/98		Pending	Yu; Snelgrove	elgrove
00CXT0739VV (4-3)	US patent appin	09/127,84 4 8/3/98		Pending	Yu; Snelgrove	grove

Abandoned Cojocaru; Varelas; Cloutier; Lussier Published (Cojocaru; Varelas; Cloutier; Lussier) Issued (Cojocaru; Varelas; Cloutier; Lussier) Swaminathan; MacRobbie; Snelgrove Issued Swaminathan; MacRobbie; Snelgrove Swaminathan; MacRobbie; Snelgrove Swaminathan;		Mismatch in A Complex Filter	Snelgrove		12/11/01	2/18/99	US Patent	(6- 3)
Abandoned Cojocaru; One Bit Digital Varelas; Quadrature Vector Cloutier; Lussier Published (Cojocaru; One Bit Digital Varelas; Cloutier; Cloutier; Cloutier; Lussier) Issued (Cojocaru; One Bit Digital Varelas; Cloutier; Quadrature Vector Lussier) Published Swaminathan; Analog to Digital MacRobbie; Snelgrove Snelgrove Filter Published Swaminathan; Method and Apparatus MacRobbie; Filter		Method and Apparatu	Swaminathan;	Issued	6,329,93	09/252,38	US patent	00CXT0741W
Abandoned Cojocaru; One Bit Digital Varelas; Quadrature Vector Cloutier; Modulator Published (Cojocaru; One Bit Digital Varelas; Quadrature Vector Cloutier; Modulator Lussier) Issued (Cojocaru; One Bit Digital Varelas; Quadrature Vector Cloutier; Modulator Lussier) Published Swaminathan; Analog to Digital MacRobbie; Snelgrove Applications Published Swaminathan; Method and Apparatus MacRobbie; for Minimizing	 	Mismatch in A Compl Filter	Snelgrove					
Abandoned Cojocaru; One Bit Digital Varelas; Quadrature Vector Cloutier; Modulator Lussier Published (Cojocaru; One Bit Digital Varelas; Cloutier; Quadrature Vector Cloutier; Modulator Lussier) Issued (Cojocaru; One Bit Digital Varelas; Quadrature Vector Cloutier; Modulator Lussier) Published Swaminathan; Analog to Digital MacRobbie; Snelgrove Applications Published Swaminathan; Method and Apparatus		for Minimizing	MacRobbie;			2/18/99	appin	(6-2)
Abandoned Cojocaru; One Bit Digital Varelas; Quadrature Vector Cloutier; Modulator Lussier Published (Cojocaru; One Bit Digital Varelas; Cloutier; Lussier) Issued (Cojocaru; One Bit Digital Varelas; Cloutier; Modulator Lussier) Published Swaminathan; Analog to Digital MacRobbie; Snelgrove Applications		Method and Apparatu	Swaminathan;	Published		2,262,209	Cdn patent	00CXT0741W
Abandoned Cojocaru; One Bit Digital Varelas; Quadrature Vector Cloutier; Modulator Lussier Published (Cojocaru; One Bit Digital Varelas; Quadrature Vector Lussier) Issued (Cojocaru; One Bit Digital Varelas; Quadrature Vector Cloutier; Quadrature Vector Modulator Lussier) Published Swaminathan; Analog to Digital MacRobbie; Applications	2,262,209		G.				appin	
Abandoned Cojocaru; One Bit Digital Varelas; Quadrature Vector Cloutier; Modulator Lussier Published (Cojocaru; One Bit Digital Varelas; Quadrature Vector Lussier) Issued (Cojocaru; One Bit Digital Varelas; Quadrature Vector Cloutier; Quadrature Vector Quadrature Vector Modulator Lussier) Published Swaminathan; Analog to Digital MacRobbie: Converter for Radio	Canadian Uti	Applications	Snelgrove			!	natent	1
Abandoned Cojocaru; One Bit Digital Varelas; Quadrature Vector Cloutier; Modulator Lussier Published (Cojocaru; One Bit Digital Varelas; Quadrature Vector Lussier) Issued (Cojocaru; One Bit Digital Varelas; Cloutier; One Bit Digital Varelas; Cloutier; Quadrature Vector Lussier) Swaminathan: Analog to Digital	Aban in favor	Converter for Radio	MacRobbie;			2/18/98	preliminary	(6-1)
Abandoned Cojocaru; One Bit Digital Varelas; Quadrature Vector Cloutier; Modulator Lussier Published (Cojocaru; One Bit Digital Varelas; Quadrature Vector Lussier) Issued (Cojocaru; One Bit Digital Varelas; One Bit Digital Varelas; Quadrature Vector Cloutier; Modulator Lussier) Modulator	Preliminary a	Analog to Digital	Swaminathan:	Published		2 229 737	Cdh	DOCXTD741W
Abandoned Cojocaru; One Bit Digital Varelas; Quadrature Vector Cloutier; Modulator Lussier Published (Cojocaru; One Bit Digital Varelas; Quadrature Vector Lussier) Issued (Cojocaru; One Bit Digital Varelas; One Bit Digital Varelas; Quadrature Vector Cloutier; Quadrature Vector Lussier) Modulator								
Abandoned Cojocaru; One Bit Digital Varelas; Quadrature Vector Cloutier; Modulator Lussier Published (Cojocaru; One Bit Digital Varelas; Quadrature Vector Lussier) Issued (Cojocaru; One Bit Digital Varelas; Quadrature Vector Quadrature Vector Quadrature Vector			Lussier)				•	
Abandoned Cojocaru; One Bit Digital Varelas; Quadrature Vector Cloutier; Modulator Lussier One Bit Digital Varelas; Quadrature Vector Cloutier; Quadrature Vector Lussier) Modulator Issued (Cojocaru; One Bit Digital Varelas; Quadrature Vector		Modulator	Cloutier,		1/15/02	8/17/98	US patent	•
Abandoned Cojocaru; One Bit Digital Varelas; Quadrature Vector Cloutier; Modulator Lussier One Bit Digital Varelas; Quadrature Vector Cloutier; Quadrature Vector Cloutier; Modulator Lussier) Issued (Cojocaru; One Bit Digital	in US; Issued	Quadrature Vector	Varelas;	-		ω	appin	(5- 3)
Abandoned Cojocaru; One Bit Digital Varelas; Quadrature Vector Cloutier; Modulator Lussier One Bit Digital Varelas; Quadrature Vector Cloutier; Modulator Lussier)	Nationally file	One Bit Digital	(Cojocaru;	issued	6,339,62	09/135,24	US patent	00CXT0740W
Abandoned Cojocaru; One Bit Digital Varelas; Quadrature Vector Cloutier; Modulator Lussier One Bit Digital Varelas; Quadrature Vector Quadrature Vector Modulator			Lussier)					
Abandoned Cojocaru; One Bit Digital Varelas; Quadrature Vector Cloutier; Modulator Lussier Published (Cojocaru; One Bit Digital Varelas; Quadrature Vector	Published	Modulator	Cloutier;					7
Abandoned Cojocaru; One Bit Digital Varelas; Quadrature Vector Cloutier; Modulator Lussier Cojocaru; One Bit Digital	Canadian ap	Quadrature Vector	Varelas;				appin	(5-2)
Abandoned Cojocaru; One Bit Digital Varelas; Quadrature Vector Cloutier; Modulator Lussier	Parent	One Bit Digital	(Cojocaru;	Published		2,245,072	Cdn patent	00CXT0740W
Abandoned Cojocaru; One Bit Digital Varelas; Quadrature Vector Cloutier Modulator	2,245,072		Lussier				appin	
Abandoned Cojocaru; One Bit Digital Varelas; Quadrature Vector	Canadian Uti	Modulator	Cloutier				patent	7
Abandoned Cojocaru; One Bit Digital	Aban in favor	Quadrature Vector	Varelas;			8/15/97	preliminary	(5-1)
Issue Date	Preliminary a	One Bit Digital	Cojocaru;	Abandoned		2,213,156	Cdn	00CXT0740W
SSLE					Date			
					issue	File Date		Docket No.
Pat. No./ Status Inventor(s) Title Comments	Comments	Title	Inventor(s)	Status	Pat. No./	App. No./	Type	Conexant

	Amplification						
filed via PCT; Published	Continuous High Gain, Narrowband Signal	Clouder	rupilshed		12/9/98	patent appln	(7-6)
filed via PCT; Pending	Continuous High Gain, Narrowband Signal Amplification	Counter	rending		21/9/98	patent appln	(7-5)
PCT app; Inactive	An Amplifier for Continuous High Gain, Narrowband Signal Amplification	Cloutier	Inactive		PCT/CA98 01123	PCT appin	00CXT0742W (7-4)
Filed in US via PCT app; Issued	An Amplifier for Continuous High Gain, Narrowband Signal Amplification	Cloutier	Issued	6,057,73 5 5/2/00	09/209,05 1 12/9/98	us patent appin	00CXT0742W (7-3)
Parent Canadian app; Issued	An Amplifier for Continuous High Gain, Narrowband Signal Amplification	Cloutier	Issued	2,280,87 8 2/5/02	2,280,878 12/9/98	Cdn patent	00CXT0742W (7-2)
Preliminary app; Aban in favor of Canadian Utility 2,280,878	Low Phase Noise, High Q, High Gain Amplifier in an Integrated Circuit	Cloutier	Abandoned		2,224,261 12/9/97	Cdn preliminary patent appln	00CXT0742W (7-1)
Comments	Title	Inventor(s)	Status	Pat. No./ Issue Date	App. No./ File Date	Туре	Conexant Docket No.

Conexant	Туре	App. No./	Pat. No./	Status	inventor(s)	Title	Comments
Docket No.	:	File Date	issue Date				
OOCXTO743W	Cdn natent	010 500 0		Dublished		Audio Decording and	Darant
(8-1)	appin	12/24/97		rubiisneg	Bériault; Glandon	Audio Recording and Playback System	Canadian app; Published; Abandoned
00CXT0743W	US patent	09/220,62		Abandoned	Lussier;	Audio Recording and	Nationally filed
(8-2)	appin	5 12/24/98			Bériault; Glandon	Playback System	in US; Abandoned
00CXT0744W (9-1)	Cdn preliminary patent appln	2,233, 8313/31/9 8		Abandoned	Riley	Delta-Sigma Fractional- N Synthesizer	Preliminary app; Aban in favor of Canadian Utility 2,267,496
00CXT0744W (9-2)	Cdn patent	2,267,496 3/30/99		Published	Riley	A Fractional-N Divider Using a Delta-Sigma	Parent Canadian app:
•						Modulator	Published
00CXT0744W	US patent	09/281,85	6,236,70	Issued	Riley	A Fractional-N Divider	Nationally filed
(9-3)	appin	3/31/99	5/22/01			Using a Delta-Sigma Modulator	in US; issued
00CXT0745W (10-1)	Cdn Preliminary	2,229,756 2/18/98		Abandoned	Swaminathan; Snelgrove;	Method and Apparatus for Correcting Element	Preliminary app; Abandoned
	patent appin				MacRobbie	Mismatch in Digital-to- Analog Converters	
00CXT0746W	Cdn patent			Closed	Lussier, O'Neil	Radio PCS/GPS Solution	Closed per IRC

Nationally filed in US; Pending	Inverted Super Regenerative Receiver	Cloutier	Pending		09/435,64 7 11/9/99	US patent appin	00CXT0749W (14-3)
Parent Canadian app; Published	Inverted Super Regenerative Receiver	Cloutier	Published		2,289,345 11/9/99	Cdn patent appln	00CXT0749W (14-2)
Preliminary app; Aban in favor of Canadian Utility 2,289,345	Inverted Super Regenerative Receiver	Cloutier	Abandoned		2,253,090 11/9/98	Cdn preliminary patent appln	00CXT0749W (14-1)
Parent Canadian app; Published	Method and Apparatus for Correcting Element Mismatch in Bandpass Digital-to-Analog Converters	Swaminathan	Published		2,229,756 2/18/98	Cdn patent appin	00CXT0748W (13-1)
Closed per IRC	Digital Gain Control in Sigma-Delta Modulators via Reference and/or Input Modulation Using Sigma-Delta Techniques	MacRobbie	Closed			Cdn patent appin	00CXT0747W (12-1)
Comments	Title	Inventor(s)	Status	Pat. No./ Issue Date	App. No./ File Date	Туре	Conexant Docket No.

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Conexant Docket No.	Туре	App. No./ File Date	Pat. No. <i>l</i> Issue Date	Status	Inventor(s)	Title	Comments
00CXT0750W (15-1)	Cdn preliminary patent appln	2,260,456 1/27/99		Abandoned	Swaminathan; Cloutier; Cherry	A Frequency-Locked Loop with Gated Reference and VCO Inputs	Preliminary app; Aban in favor of Canadian Utility 2,290,862
00CXT0750W (15-3)	Cdn patent appln	2,290,862 11/25/99		Published	Swaminathan; Cloutier; Cherry)	A Frequency/ Phase Comparison Circuit with Gated Reference and Signal Inputs	Parent Canadian app: Published
00CXT0750W (15-2)	US patent appin	09/491,87 5 1/27/00		Pending	Swaminathan; Cloutier; Cherry	A Frequency/ Phase Comparison Circuit with Gated Reference and Signal Inputs	Nationally filed in US; Pending
00CXT0751W (16-1)	Cdn preliminary patent appin	2,260,717 2/4/99		Abandoned	Birkett; Snelgrove; MacRobbie	A WCDMA Integrated Circuit Chip Set	Preliminary app; Abandoned
00CXT0752W (17-1)	Cdn patent appln			On-Hold/Not Assigned	Riley; Balteanu; Namdar	Linear Low Noise PLL	On-Hold per IRC; Not Assigned

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Nationally filed US app; Pending	Complex Phase- Locked Loop Demodulator for Low-IF and Zero-IF Radio Receivers	Birkett; Filiol; Riley	Pending	·	09/676,23 3 9/29/00	US patent appin	00CXT0755W (20-2)
Parent Canadian app; Published	Complex Phase- Locked Loop Demodulator for Low-IF and Zero-IF Radio Receivers	Birkett; Filiol; Riley)	Published		2,284,948 10/4/99	Cdn patent appin	00CXT0755W (20-1)
Closed; Not Assigned	Low Voltage Technique for a Voltage Control Oscillator	Cojocaru	Assigned			Cdn patent appin	(19-1)
PCT; Published	Low Voltage Transconductance Amplifier/ Filters	Balteanu; Cherry	Published		PCT/CA01 / 00132 2/9/01	PCT appin	00CXT0753W (18-3)
Nationally filed US app; Pending	Low Voltage Transconductance Amplifier/ Filters	Balteanu; Cherry	Pending		09/676,59 7 9/29/00	US patent appin	00CXT0753W (18-2)
Parent Canadian app; Published	Low Voltage Transconductance Amplifier/ Filters	Balteanu; Cherry	Published		2,298,310 2/9/00	Cdn patent appin	00CXT0753W (18-1)
Comments	Title	Inventor(s)	Status	Pat. No./ Issue Date	App. No./ File Date	Туре	Conexant Docket No.

IP SCHEDULE B

	00CXT0757W (22-2)	00CXT0757W (22-1)	00CXT0756W (21-2)	00CXT0756W (21-1)	Conexant Docket No.
	US patent appin	Cdn patent appin	US patent appin	Cdn patent appin	Туре
	09/676,23 5 9/29/00	2,296,209 1/17/00	09/628,33 0 7/28/00	2,281,522 9/10/99	App. No./ File Date
	6,317,06 2 11/13/01				Pat. No./ Issue Date
œ	ssued	Pending	Pending	Published	Status
	Payer; Birkett	Payer; Birkett	Filiol; Riley; Cloutier, Cojocaru; Balteanu	Filiol; Riley; Cloutier; Cojocaru; Balteanu	Inventor(s)
	Method and Apparatus for Dynamically Generating Multiple Level Decision Thresholds of an M-ary Coded Signal	Method and Apparatus for Dynamically Generating Multiple Level Decision Thresholds of an M-ary Coded Signal	Delta-Sigma Based Dual-Port Modulation Scheme And Calibration Techniques For Similar Modulation Schemes	Delta-Sigma Based Dual-Port Modulation Scheme And Calibration Techniques For Similar Modulation Schemes	Title
	Nationally filed US app; Issued	Parent Canadian app; Pending	Nationally filed US app; Pending	Parent Canadian app; Published	Comments

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PCT; Inactive	Radio Calibration by Correcting the Crystal Frequency	Dell'Aera	IIIacilye		11/1/00	appin	(25-3)
Pending	Frequency		14:		00/01303	DCT natent	NOOSTOTSON
Nationally filed US app;	Radio Calibration by Correcting the Crystal	Dell'Aera	Pending	<u> </u>	1	appin	(25-2)
Pending	Frequency				09 507/00	IIS natent	ODCXTO760M
Canadian app;	Correcting the Crystal		c		11/2/99	appin	(25-1)
Parent	Radio Calibration by	Dell'Aera	Pending		2,288.495	Cdn patent	00CXT0760W
0000	Snelgrove)		V				
ODCYTOZENI	(Filiple Biley: Martin		00CXT0756				
closed/combine	Soboro Modulation		With Control			1	•
Canadian app	Calibration Means for		Closed			appin	(24-1)
			21			Cdn natent	OCXT0759W
	or Zero IF						
Filed	Architecture for Low-IF	Balteanu					
PCT: To Be	Radio Receiver	Sneigrove;					(23-3)
EP app from	Complex AGC/Filtering	Birkett; Cherry;	To Be Filed		_	EPC	00CX10/58W
	or Zero IF				11/6/00		
	Architecture for Low-IF	Balteanu			01297		
Inactive	Radio Receiver	Snelgrove;			1		(23-3)
PCT app:	Complex AGC/Filtering	Birkett; Cherry:	Inactive		PCT/CA00	PCT	00CXT0758W
9	for Low-IF or Zero IF						
Pendina	Receiver Architecture	Balteanu			9/29/00	•••	
ils app.	Filtering Radio	Spelarove:	•		ယ	appln	(23-2)
Nationally filed	Complex AGC/	Birkett: Cherry:	Pending		09/675,51	US patent	00CXT0758W
י מטווטוופע	for Low-IF or Zero-IF	0					
Canadian app,	Beceiver Architecture	Ralteanii				•	
Canadian	Colliplex AGC/	Spelgrove:	40000		11/15/99	appin	(23-1)
Docat	Complex ACC/	Rirkett Chemi	Published		2.289.823	Cdn patent	00CXT0758W
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Collinia	į			20	File Date	;	Docket No.
Commonte	Title	Inventor(s)	Status	Pat. No./	App. No./	Туре	Conexant

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Nationally filed US app; Pending	Delta-Sigma Modulator for Fractional-N Frequency Synthesis	Kwasniewski; Lepley; Riley	Pending		09/753,58 1 1/4/01	US patent appin	00CXT0762W (27-2)
Parent Canadian app; Published	Delta-Sigma Modulator for Fractional-N Frequency Synthesis	Kwasniewski; Lepley; Riley	Published		2,294,404	Cdn patent appln	00CXT0762W (27-1)
Nationally filed Taiwan app; Pending	Linear Low Noise Phase Locked Loop Frequency Synthesizer Using Controlled Divider Pulse Widths	Riley	Pending		90100821	Taiwan patent appin	00CXT0761W (26-4)
PCT app; Pending	Linear Low Noise Phase Locked Loop Frequency Synthesizer Using Controlled Divider Pulse Widths	Riley	Pending		01/00020 1/5/01	PCT patent appin	00CXT0761W (26-3)
Nationally filed US app; Pending	Linear Low Noise Phase Locked Loop Frequency Synthesizer Using Controlled Divider Pulse Widths	Riley	Pending		09/753,62 6 1/4/01	US patent appin	00CXT0761W (26-2)
Parent Canadian app; Published	Linear Low Noise Phase Locked Loop Frequency Synthesizer Using Controlled Divider Pulse Widths	Riley	Published		2,295,435 1/6/00	Cdn patent appin	00CXT0761W (26-1)
EP app to be filed from PCT	Radio Calibration by Correcting the Crystal Frequency	Dell'Aera	To Be Filed			EPC	00CXT0760W (25-4)
Comments	Title	inventor(s)	Status	Pat. No./ Issue Date	App. No./ File Date	Туре	Conexant Docket No.

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Docket No.	- 770	File Date	issue Date	otatus	inventor(s)	IIIe	Comments
00CXT0762W (27-3)	PCT patent appin	01/00019 1/5/01		Pending	Kwasniewski; Lepley; Riley	Delta-Sigma Modulator for Fractional-N	PCT patant app; Pending
00CXT0762W (27-4)	Taiwan patent	90100820		Pending	Kwasniewski;	Delta-Sigma Modulator	Nationally filed
(2, 4)	appin	10/01			Lepiey; Kiley	for Fractional-N Frequency Synthesis	Faiwan app; Pending
CONTATAGE							
00CXT0763W (28-1)	US patent appin	09/088,74 5 6/2/98		Pending	Balteanu	Balanced Mixer with a Feedback Preamplifier	Parent US patent app; Pending
00CXT0764W (29-1)	US patent	09/629,48 4		Pending	Riley	Frequency Synthesizer	Parent US
		7/31/00					Pending
(29-2)	PCT patent appin	01/01093 7/30/01		Pending	Riley	Frequency Synthesizer	PCT patent app; Pending
(30-1)	us patent i	09/545,88 7		Pending	Beriault	ESD Protection in	Parent US
		4/7/00	·			Ü	CPA filed 2/26/02; Pendina
01CXT0166W (31-1)	US patent appin	10/008,44 2 6-Dec- 2001		Pending	Balteanu; Gheorghe	Low Power Bandgap Circuit	Parent US patent app; Pending
		,					
(32-1)	appin			Unfiled	Cojocaru	Low-Voltage Bipolar Current Mode Logic (CML) Family Using Schottky Diodes	Parent US patent app; Assigned /Unfiled
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999 10-Dec-2009	10-Dec-1999	WCD	Registered	Japan	PHILSAR
-	18-Dec-2000	WCD	Registered	Canada	PHILSAR
				America	
001 28-Aug-2011	28-Aug-2001	WCD	Registered	United States of	PHILSAR
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The First State

I, HARRIET SMITH WINDSOR, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF MERGER, WHICH MERGES:

"WASHINGTON SUB, INC.", A DELAWARE CORPORATION,

WITH AND INTO "ALPHA INDUSTRIES, INC." UNDER THE NAME OF "ALPHA INDUSTRIES, INC.", A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, AS RECEIVED AND FILED IN THIS OFFICE THE TWENTY-FIFTH DAY OF JUNE, A.D. 2002, AT 8 O'CLOCK A.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF MERGER IS THE TWENTY-FIFTH DAY OF JUNE, A.D. 2002, AT 11:59 O'CLOCK P.M.

A FILED COPY OF THIS CERTIFICATE HAS BEEN FORWARDED TO THE NEW CASTLE COUNTY RECORDER OF DEEDS.



Warriet Smith Windson

0588101 B100M

RECORDED: 03/10/2003

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AUTHENTICATION: 1850260

DATE: 06-25-02