PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE: NEW ASSIGNMENT

NATURE OF CONVEYANCE: SECURITY AGREEMENT

CONVEYING PARTY DATA

Name	Execution Date
Intersil Corporation	04/27/2010
Techwell, Inc.	04/27/2010
Intersil Communications, Inc.	04/27/2010
Quellan, Inc.	04/27/2010
Zilker Labs, Inc.	04/27/2010
Kenet, Inc.	04/27/2010
Intersil Americas Inc.	04/27/2010
Elantec Semiconductor, Inc.	04/27/2010
D2Audio Corporation	04/27/2010
Planet Ate, Inc.	04/27/2010

RECEIVING PARTY DATA

Name:	Morgan Stanley & Co. Incorporated	
Street Address:	One Pierrepont Plaza, 7th Floor	
Internal Address:	300 Cadman Plaza West	
City:	Brooklyn	
State/Country:	NEW YORK	
Postal Code:	11201	

PROPERTY NUMBERS Total: 113

Property Type	Number
Patent Number:	5128564
Patent Number:	5179355
Patent Number:	5321371
Patent Number:	5334883
Patent Number:	5341047
Patent Number:	5351012

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Patent Number:	5352987
Patent Number:	5352989
Patent Number:	5374898
Patent Number:	5389840
Patent Number:	5418495
Patent Number:	5420542
Patent Number:	5426396
Patent Number:	5430670
Patent Number:	5469104
Patent Number:	5469106
Patent Number:	5475343
Patent Number:	5479133
Patent Number:	5528303
Patent Number:	5568090
Patent Number:	5578967
Patent Number:	5614866
Patent Number:	5656851
Patent Number:	5681216
Patent Number:	5723974
Patent Number:	5793126
Patent Number:	5812026
Patent Number:	5846374
Patent Number:	5867222
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Patent Number:	5898334
Patent Number:	5985728
Patent Number:	6031424
Patent Number:	6037239
Patent Number:	6096621
Patent Number:	6140205
Patent Number:	6204720
Patent Number:	6229394
Patent Number:	6300834
Patent Number:	6384683
Patent Number:	6403447
II.	PATENT

Patent Number:	6448853
Patent Number:	6501317
Patent Number:	6535064
Patent Number:	6538514
Patent Number:	6573943
Patent Number:	6617646
Patent Number:	6720836
Patent Number:	6781532
Patent Number:	6867643
Patent Number:	6867649
Patent Number:	6897800
Patent Number:	6927712
Patent Number:	6977692
Patent Number:	6982600
Patent Number:	6995615
Patent Number:	6998905
Patent Number:	7002498
Patent Number:	7030679
Patent Number:	7034781
Patent Number:	7053698
Patent Number:	7053699
Patent Number:	7061951
Patent Number:	7068106
Patent Number:	7075362
Patent Number:	7106769
Patent Number:	7145391
Patent Number:	7215379
Patent Number:	7246199
Patent Number:	7250805
Patent Number:	7353333
Patent Number:	7378897
Patent Number:	7382807
Application Number:	11737068
Patent Number:	7562187
Patent Number:	7649410
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Patent Number:	7023268
Patent Number:	7061312
Patent Number:	7078963
Patent Number:	7167112
Patent Number:	7259618
Patent Number:	7286009
Patent Number:	7286010
Patent Number:	7315264
Patent Number:	7362254
Patent Number:	7425853
Patent Number:	7436255
Patent Number:	7436256
Patent Number:	7436918
Patent Number:	7474722
Patent Number:	7482865
Patent Number:	7518444
Patent Number:	7576606
Patent Number:	7584009
Patent Number:	7590251
Application Number:	12343317
Application Number:	11782702
Application Number:	12542634
Application Number:	10805594
Application Number:	10805574
Application Number:	10805596
Application Number:	10805590
Application Number:	10843852
Application Number:	12202355
Application Number:	12202356
Application Number:	12202358
Application Number:	12202359
Application Number:	12202360
Application Number:	12202361
Application Number:	11847449
Application Number:	12544806
<u> </u>	PATENT

Patent Number:	6933746
Patent Number:	7675310

CORRESPONDENCE DATA

Fax Number: (650)813-4848

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 6508134800

Email: elaine.carrera@dechert.com

Correspondent Name: Joshua H. Rawson

Address Line 1: Dechert LLP

Address Line 2: 1095 Avenue of the Americas Address Line 4: New York, NEW YORK 10036

NAME OF SUBMITTER:

Joshua H. Rawson

Total Attachments: 116

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PATENT SECURITY AGREEMENT

This PATENT SECURITY AGREEMENT, dated as of April 27, 2010 ("<u>Patent Security Agreement</u>"), made by each of the signatories hereto (together with any other entity that may become a party hereto as provided herein, the "<u>Grantors</u>"), is in favor of MORGAN STANLEY & CO. INCORPORATED, as collateral agent (in such capacity, the "Collateral Agent") for the Lenders (in such capacity, the "<u>Assignee</u>").

WITNESSETH:

WHEREAS, the Grantors are party to a Guarantee and Collateral Agreement dated as of April 27, 2010 (the "Guarantee and Collateral Agreement") in favor of the Assignee pursuant to which the Grantors are required to execute and deliver this Patent Security Agreement;

NOW, THEREFORE, in consideration of the premises and to induce the Agents and the Lenders to enter into the Credit Agreement and to induce Lenders to make their respective extensions of credit to the Borrower thereunder and to induce the Qualified Counterparties to enter into the Specified Hedge Agreements and provide financial accommodation, each Grantor hereby agrees with the Collateral Agent, for the benefit of the Secured Parties, as follows:

SECTION 1. <u>Defined Terms</u>. Capitalized terms used but not otherwise defined herein shall have the meanings given to them in the Guarantee and Collateral Agreement. For purposes of this Patent Security Agreement, the term "<u>Patents</u>" shall mean, collectively, patents, patent applications, certificates of inventions, industrial designs (whether established or registered or recorded in the United States or any other country or any political subdivision thereof), including, without limitation, each issued patent and patent application identified on <u>Schedule 1</u> hereto, together with any and all (i) inventions and improvements described and claimed therein, (ii) reissues, divisions, continuations, renewals, extensions and continuations-in-part thereof and amendments thereto, (iii) income, fees, royalties, damages, claims and payments now or hereafter due and/or payable thereunder and with respect thereto, including, without limitation, damages, claims and payments for past, present and future infringements, dilutions, misappropriations, or other violations thereof, (iv) rights to sue or otherwise recover for past, present and future infringements, misappropriations, dilutions or other violations thereof and (v) rights corresponding thereto throughout the world.

SECTION 2. Grant of Security Interest in Patent Collateral. Each Grantor hereby grants to the Collateral Agent, for the benefit of the Secured Parties, a security interest in all of the following property now owned or at any time hereafter acquired by such Grantor or in which such Grantor now has or at any time in the future may acquire any right, title or interest (collectively, the "Patent Collateral"), as collateral security for the prompt and complete payment and performance when due (whether at the stated maturity, by acceleration or otherwise) of all Obligations:

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- (a) all Patents of such Grantor, including, without limitation, the registered and applied-for Patents of such Grantor listed on <u>Schedule 1</u> attached hereto; and
 - (b) to the extent not covered by clause (a), all Proceeds of any of the foregoing;

provided, that (i) this Agreement shall not constitute a grant of a security interest in any property to the extent that and for as long as such grant of a security interest (A) is prohibited by any Requirement of Law, (B) requires a filing with or consent from any Governmental Authority pursuant to any Requirement of Law that has not been made or obtained, (C) constitutes a breach or default under or results in the termination of, or requires any consent not obtained under, any contract, property rights, lease, license or agreement, instrument or other document except to the extent that such Requirement of Law or provisions of any such contract, property rights, lease, license or agreement, instrument or other document is ineffective under applicable law or would be ineffective under Sections 9-406, 9-407, 9-408 or 9-409 of the New York UCC to prevent the attachment of the security interest granted hereunder, (D) is in any United States Trademark applications filed on the basis of a Grantor's intent-to-use such mark, in each case, unless and until evidence of the use of such Trademark in interstate commerce is submitted to the PTO, but only if and to the extent that the granting of a security interest in such application would result in the invalidation of such application, provided, that to the extent such application is excluded from the Collateral, upon the submission of evidence of use of such Trademark to the PTO, such Trademark application shall automatically be included in the Collateral, without further action on any party's part, (E) is in Capital Stock which is specifically excluded from the definition of Pledged Stock by virtue of the provisos to such definition, (F) is in motor vehicles or other assets in which a security interest may be perfected only through compliance with a certificate of title or similar statute, (G) is in any Margin Stock owned by the Borrower or MergerSub, (H) is in any Collateral owned by Techwell, Inc. or its Subsidiaries until such time as Techwell, Inc. is a wholly-owned Subsidiary of Borrower and (I) is in any Intercompany Note issued by Intersil Europe Sárl to Intersil Communications, Inc. in connection with the Permitted Reorganization; and (ii) the security interest granted hereby (A) shall attach at all times to all proceeds of such property, (B) shall attach to such property immediately and automatically (without need for any further grant or act) at such time as the condition described in clause (i) ceases to exist and (C) to the extent severable shall in any event attach to all rights in respect of such property that are not subject to the applicable condition described in clause (i).

SECTION 3. <u>Guarantee and Collateral Agreement</u>. The security interest granted pursuant to this Patent Security Agreement is granted in conjunction with security interest granted to the Assignee pursuant to the Guarantee and Collateral Agreement and Grantors hereby acknowledge and affirm that the rights and remedies of the Assignee with respect to the security interest in the Patents made and granted hereby are more fully set forth in the Guarantee and Collateral Agreement. In the event that any provision of this Patent Security Agreement is deemed to conflict with the Guarantee and Collateral Agreement, the provisions of the Guarantee and Collateral Agreement shall govern.

SECTION 4. <u>Recordation</u>. Each Grantor hereby authorizes and requests that the Commissioner of Patents and Trademarks record this Patent Security Agreement.

SECTION 5. <u>Termination</u>. (a) At such time as the Loans, the Reimbursement Obligations and all other Obligations (other than Unasserted Contingent Obligations and obligations (other than Unasserted Contingent Obligations) under or in respect of Hedge Agreements) have been paid in full (including, with respect to any Letters of Credit, either the deposit of cash collateral in an amount equal to 105% of the outstanding L/C Obligations or the delivery of a "backstop" Letter of Credit reasonably satisfactory to the Issuing Lender in its sole discretion), all commitments to extend credit under the Loan Documents have terminated, the Collateral shall be released from the Liens created hereby, and this Agreement and all obligations (other than those expressly stated to survive such termination) of the Collateral Agent and each Grantor hereunder shall terminate, all without delivery of any instrument or performance of any act by any party, and all rights to the Collateral shall revert to the Grantors. At the request and sole expense of any Grantor following any such termination, the Collateral Agent shall deliver to such Grantor any Collateral held by the Collateral Agent hereunder and execute and deliver to such Grantor such documents (in form and substance reasonably satisfactory to the Collateral Agent) as such Grantor may reasonably request to evidence such termination.

(b) If any of the Collateral is sold, transferred or otherwise disposed of by any Grantor in a transaction permitted by the Credit Agreement, then the Lien created pursuant to this Agreement in such Collateral shall be released, and the Collateral Agent, at the request and sole expense of such Grantor, shall execute and deliver to such Grantor all releases or other documents reasonably necessary or desirable for the release of such Collateral (not including Proceeds thereof) from the security interests created hereby. At the request and sole expense of the Borrower, a Subsidiary Guarantor shall be released from its obligations hereunder in the event that all the Capital Stock of such Subsidiary Guarantor shall be sold, transferred or otherwise disposed of in a transaction permitted by the Credit Agreement; provided that the Borrower shall have delivered to the Collateral Agent, at least ten Business Days prior to the date of the proposed release, a written request for release identifying the relevant Subsidiary Guarantor and the terms of the sale or other disposition in reasonable detail, including the price thereof and any expenses in connection therewith, together with a certification by the Borrower stating that such transaction is in compliance with the Credit Agreement and the other Loan Documents.

SECTION 6. GOVERNING LAW. THIS AGREEMENT AND THE RIGHTS AND OBLIGATIONS OF THE PARTIES UNDER THIS AGREEMENT SHALL BE GOVERNED BY, AND CONSTRUED AND INTERPRETED IN ACCORDANCE WITH, THE LAW OF THE STATE OF NEW YORK.

SECTION 7. <u>Counterparts</u>. This Agreement may be executed by one or more of the parties to this Agreement on any number of separate counterparts, and all of said counterparts taken together shall be deemed to constitute one and the same instrument. Delivery of an executed signature page of this Agreement by facsimile transmission or electronic transmission (in PDF format) shall be effective as delivery of a manually executed counterpart hereof. A set of the copies of this Agreement signed by all the parties shall be lodged with the Borrower, the Administrative Agent and the Collateral Agent.

IN WITNESS WHEREOF, each Grantor has caused this PATENT SECURITY AGREEMENT to be executed and delivered by its duly authorized officer as of the date first above written.

INTERSIL CORPORATION

By:

Name: Douglas A. Balog Title: Assistant Secretary

TECHWELL, INC.

By:

Name: Douglas A. Balog Title: Assistant Secretary

INTERSIL COMMUNICATIONS, INC.

By:

Name: Douglas A. Balog Title: Assistant Secretary

QUELLAN, INC.

By:

Name: Douglas A. Balog Title: Assistant Secretary

ZILKER LABS, INC.

By:

Name: Douglas A. Balog Title: Assistant Secretary

[Signature Page to Patent Security Agreement]

PATENT

KENET, INC.

By:

Name: Douglas A. Balog Title: Assistant Secretary

INTERSIL AMERICAS INC.

Bv

Name: Douglas A. Balog Title: Assistant Secretary

ELANTEC SEMICONDUCTOR, INC.

By:

Name: Douglas A. Balog Title: Assistant Secretary

D2AUDIO CORPORATION

By:

Name: Douglas A. Balog Title: Assistant Secretary

PLANET ATE, INC.

By:

Name: Douglas A. Balog Title: Assistant Secretary

Accepted and Agreed:

MORGAN STANLEY & CO. INCORPORATED, AS ASSIGNEE

By:

Name: ANDREW GARLY

Title:

ANTHORILED SIGNATORY

PATENTS

Patent Registrations and Applications

Intersil Corporation – U.S. Registered Patents and Pending Applications

Title	Jurisdiction	Reg. No./ Serial No.	Filing Date / Reg. Date	Status
APPARATUS AND METHOD FOR MINIMIZING SPURIOUS HARMONIC NOISE IN SWITCHED CURRENT STEERING ARCHITECTURES	United States	6794924	21-Sep- 2004	Granted
PRECISION LOOP VOLTAGE DETECTOR FOR SUBSCRIBER LINE INTERFACE CIRCUIT APPLICATIONS	United States	6469519	22-Oct- 2002	Granted
PACKAGE FOR INTEGRATED CIRCUIT WITH THERMAL VIAS AND METHOD THEREOF	United States	6809416	26-Oct- 2004	Granted
PACKAGE FOR INTEGRATED CIRCUIT WITH THERMAL VIAS AND METHOD THEREOF	United States	6861283	01-Mar- 2005	Granted
TRANSMITTER WITH LIMITED SPECTRAL REGROWTH AND METHOD THEREFOR	United States	7113551	26-Sep- 2006	Granted
MULTIPHASE CONVERTER WITH ZERO VOLTAGE SWITCHING	United States	7138789	21-Nov- 2006	Granted

Intersil Corporation - Foreign Registered Patents and Patent Applications

Title	Jurisdiction	Reg. No./ Serial No.	Filing Date / Reg. Date	Status
PROCESS FOR DOPING TWO LEVELS OF A DOUBLE POLY BIPOLAR TRANSISTOR AFTER FORMATION OF SECOND POLY LAYER	JP	4174579	29-Aug- 2008	Granted
RE-SAMPLING CIRCUIT AND ASSOCIATED METHOD	CN	98104209.0	24-Sep- 2003	Granted
RE-SAMPLING CIRCUIT AND ASSOCIATED METHOD	JP	3982594	13-Jul-2007	Granted
RE-SAMPLING CIRCUIT AND ASSOCIATED METHOD	KR	484710	13-Apr- 2005	Granted
RE-SAMPLING CIRCUIT AND ASSOCIATED METHOD	TW	NI-120117	11-Sep- 2000	Granted
DC-DC CONVERTER HAVING DYNAMIC	KR	545867	18-Jan-	Granted

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PARASITIC CURRENT BARRIERS FR 0982775 2005 Granted PARASITIC CURRENT BARRIERS DE 0982775 19-Jan- 2005 Granted PARASITIC CURRENT BARRIERS GB 0982775 19-Jan- Granted	WETHOD3			10 lan	
PARASITIC CURRENT BARRIERS DE 0982775 19-Jan- 2005 Granted PARASITIC CURRENT BARRIERS GB 0982775 19-Jan- Granted	PARASITIC CURRENT BARRIERS	FR	0982775		Granted
PARASITIC CURRENT BARRIERS DE 0982775 2005 Granted PARASITIC CURRENT BARRIERS GB 0982775 19-Jan- Granted					
PARASITIC CURRENT BARRIERS GB 0982775 19-Jan- Granted	PARASITIC CURRENT BARRIERS	DE	0982775		Granted
PARASITIC CURRENT BARRIERS GB 09877/5 Granted					
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PARASITIC CURRENT BARRIERS	GB	0982775	2005	Granted

Title	Jurisdiction	Reg. No./ Serial No.	Filing Date / Reg. Date	Status
PARASITIC CURRENT BARRIERS	IT	0982775	19-Jan- 2005	Granted
ACCESSING MAIN ATX OUTPUTS WITHOUT MONITORING ALL OUTPUTS	CN	00106914.4	29-Jul-2005	Granted
ACCESSING MAIN ATX OUTPUTS WITHOUT MONITORING ALL OUTPUTS	TW	NI-153806	06-Aug- 2002	Granted
EDGE TERMINATION FOR SILICON POWER DEVICES	FR	1065727	24-May- 2006	Granted
EDGE TERMINATION FOR SILICON POWER DEVICES	IT	1065727	24-May- 2006	Granted
EDGE TERMINATION FOR SILICON POWER DEVICES	DE	1065727	24-May- 2006	Granted
EDGE TERMINATION FOR SILICON POWER DEVICES	EP	1065727	24-May- 2006	Granted
EDGE TERMINATION FOR SILICON POWER DEVICES	KR	10-619621	28-Aug- 2006	Granted
CURRENT MODE DC/DC CONVERTER WITH CONTROLLED OUTPUT IMPEDANCE	CN	ZL00126459	07-Sep- 2005	Granted
CURRENT MODE DC/DC CONVERTER WITH CONTROLLED OUTPUT IMPEDANCE	TW	NI-158315	01-Jul-2002	Granted
CURRENT MODE DC/DC CONVERTER WITH CONTROLLED OUTPUT IMPEDANCE	KR	10-0596555	27-Jun- 2006	Granted
SYNCHRONOUS-RECTIFIED DC TO DC CONVERTER WITH IMPROVED CURRENT SENSING AND ASSOCIATED METHODS	KR	10-0573520	18-Apr- 2006	Granted
SYNCHRONOUS-RECTIFIED DC TO DC CONVERTER WITH IMPROVED CURRENT SENSING AND ASSOCIATED METHODS	CN	ZL00126460	11-May- 2005	Granted
SYNCHRONOUS-RECTIFIED DC TO DC CONVERTER WITH IMPROVED CURRENT SENSING AND ASSOCIATED METHODS	TW	173702	11-Jan- 2003	Granted
MULTI-PHASE CONVERTER WITH BALANCED CURRENTS	KR	550401	02-Feb- 2006	Granted
MULTI-PHASE CONVERTER WITH BALANCED CURRENTS	CN	ZL00126094	13-Apr- 2005	Granted
BACKWARDS DRIVABLE MOS OUTPUT DRIVER	KR	10-0643041	31-Oct- 2006	Granted
BACKWARDS DRIVABLE MOS OUTPUT DRIVER	TW	NI-154980	11-May- 2002	Granted
METHODS TO CONTROL THE DROOP WHEN POWERING DUAL MODE PROCESSORS AND ASSOCIATED CIRCUITS	TW	NI-171825	10-Jun- 2003	Granted
OSCILLATOR HAVING REDUCED SENSITIVITY TO SUPPLY VOLTAGE CHANGES	TW	NI-163253	11-Sep- 2002	Granted
CASCADABLE, HIGH EFFICIENCY CHARGE PUMP CIRCUIT AND RELATED METHODS	TW	NI-221697	01-Oct- 2004	Granted
DC TO DC CONVERTER METHOD AND	TW	NI-177896	21-May-	Granted

CIRCUITRY CIRCUITRY DC TO DC CONVERTER METHOD AND CIRCUITRY INTEGRATED CIRCUIT WITH CURRENT-LIMITED POWER OUTPUT AND ASSOCIATED METHOD INTEGRATED CIRCUIT WITH CURRENT SENSE CIRCUIT AND ASSOCIATED METHODS SYNTHETIC RIPPLE REGULATOR TW 1248249 21-Jan-2006 SYNTHETIC RIPPLE REGULATOR TW 1248249 21-Jan-2006 SYNTHETIC RIPPLE REGULATOR TW NI-197364 16-Jun-2006 SYNTHETIC RIPPLE REGULATOR TW NI-197364 16-Jun-2006 SYNTHETIC RIPPLE REGULATOR TW NI-197364 16-Aug-2006 SYNTHETIC RIPPLE REGULATOR TIT 1472777 O8-Mar-2006 MATCHED IMPEDANCE BONDING	Granted Granted Granted Granted
CIRCUITRY DC TO DC CONVERTER METHOD AND CIRCUITRY INTEGRATED CIRCUIT WITH CURRENT-LIMITED POWER OUTPUT AND ASSOCIATED METHOD INTEGRATED CIRCUIT WITH CURRENT SENSE CIRCUIT AND ASSOCIATED METHODS SYNTHETIC RIPPLE REGULATOR TW TW TO THE TOTAL STATE	Granted Granted Granted Granted Granted Granted
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CIRCUITRY INTEGRATED CIRCUIT WITH CURRENT- LIMITED POWER OUTPUT AND ASSOCIATED METHOD INTEGRATED CIRCUIT WITH CURRENT SENSE CIRCUIT WITH CURRENT SENSE CIRCUIT AND ASSOCIATED METHODS SYNTHETIC RIPPLE REGULATOR TW 1238927 01-Sep- 2005 CN 100454738 21-Jan- 2009 SYNTHETIC RIPPLE REGULATOR FR 1472777 08-Mar- 2006 SYNTHETIC RIPPLE REGULATOR TW NI-197364 SYNTHETIC RIPPLE REGULATOR TW NI-197364 SYNTHETIC RIPPLE REGULATOR SYNTHETIC RIPPLE REGULATOR TW NI-197364 SYNTHETIC RIPPLE REGULATOR TW NI-197364 SYNTHETIC RIPPLE REGULATOR THE TIPPLE RE	Granted Granted Granted Granted
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LIMITED POWER OUTPUT AND ASSOCIATED METHOD TW NI-173429 2003	Granted Granted Granted
ASSOCIATED METHOD INTEGRATED CIRCUIT WITH CURRENT SENSE CIRCUIT AND ASSOCIATED METHODS SYNTHETIC RIPPLE REGULATOR TW 1248249 21-Jan- 2006 SYNTHETIC RIPPLE REGULATOR TW 1248249 SYNTHETIC RIPPLE REGULATOR TW NI-197364 SYNTHETIC RIPPLE REGULATOR SYNTHETIC RIPPLE REGULATOR SYNTHETIC RIPPLE REGULATOR TW NI-197364 16-Aug- 2006 SYNTHETIC RIPPLE REGULATOR TI 1472777 O8-Mar- 2006 MATCHED IMPEDANCE BONDING	Granted Granted Granted
SENSE CIRCUIT AND ASSOCIATED TW I238927 2005	Granted 7 Granted
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METHODS CN CN100454738 21-Jan-2009 SYNTHETIC RIPPLE REGULATOR JP 3981083 06-Jul-2000 SYNTHETIC RIPPLE REGULATOR FR 1472777 08-Mar-2006 SYNTHETIC RIPPLE REGULATOR TW 1248249 21-Jan-2006 SYNTHETIC RIPPLE REGULATOR TW NI-197364 16-Jun-2004 SYNTHETIC RIPPLE REGULATOR KR 10-614841 16-Aug-2006 SYNTHETIC RIPPLE REGULATOR IT 1472777 08-Mar-2006 MATCHED IMPEDANCE BONDING IT 1472777 2006	7 Granted
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SYNTHETIC RIPPLE REGULATOR IT 1472777 08-Mar- 2006	Granted
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MATCHED IMPEDANCE BONDING	Granted
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TECHNIQUE IN HIGH-SPEED INTEGRATED TW 1251889 21-Mar-	Granted
CIRCUITS	Grancea
PHASED-LOCKED LOOP WITH ANALOG 29-Nov-	
PHASE ROTATOR DE P60216475.3 2006	Granted
PACKAGE FOR INTEGRATED CIRCUIT WITH 122CC07 11-Jan-	Currelland
THERMAL VIAS AND METHOD THEREOF TW 1226687 2005	Granted
WAFER BONDING USING TRAPPED DE 69114531.8 15-Nov-	Grantod
OXIDIZING VAPOR DE 69114531.8 1995	Granted
WAFER BONDING USING TRAPPED JP 2992843 22-Oct-	Granted
OXIDIZING VAPOR 1999	Granted
WAFER BONDING USING TRAPPED GB 0441270 15-Nov-	Granted
OXIDIZING VAPOR 1995	
WAFER BONDING USING TRAPPED FR 0441270 15-Nov-	Granted
OXIDIZING VAPOR 1995	
LOW OFFSET UNITY GAIN BUFFER JP 3235084 28-Sep-	Granted
AMPLIFIER 3233064 2001	
HIGH FREQUENCY ANALOG TRANSISTORS, METHOD OF FABRICATION AND CIRCUIT KR 292851 27-Mar-	Granted
IMPLEMENTATION 2001	Granted
HIGH FREQUENCY ANALOG TRANSISTORS,	+
METHOD OF FARRICATION AND CIRCUIT IP 3798808 28-Apr-	Granted
IMPLEMENTATION 2006	Grantea
STACKED CONFIGURATION FOR 15-May-	<u> </u>
INTEGRATED CIRCUITS DEVICES IT 0555407 1996	Granted
STACKED CONFIGURATION FOR GB 0555407 15-May-	i

Title	Jurisdiction	Reg. No./ Serial No.	Filing Date / Reg. Date	Status
INTEGRATED CIRCUITS DEVICES			1996	
STACKED CONFIGURATION FOR INTEGRATED CIRCUITS DEVICES	FR	0555407	15-May- 1996	Granted
STACKED CONFIGURATION FOR INTEGRATED CIRCUITS DEVICES	DE	0555407	15-May- 1996	Granted
STACKED CONFIGURATION FOR INTEGRATED CIRCUITS DEVICES	EP	0555407	15-May- 1996	Granted
TELEPHONE SUBSCRIBER LINE CIRCUIT, COMPONENTS AND METHODS	DE	69303163.8	12-Jun- 1996	Granted
BACKWARDS DRIVABLE MOS OUTPUT DRIVER	JP	2000/348984	16-Nov- 2000	Published
DC TO DC CONVERTER METHOD AND CIRCUITRY	CN	10098553	02-May- 2001	Pending
DC TO DC CONVERTER METHOD AND CIRCUITRY	DE	10196149.9	02-May- 2001	Pending
INTEGRATED CIRCUIT WITH A MOS STRUCTURE HAVING REDUCED PARASITIC BIPOLAR TRANSISTOR ACTION	WO	US02/32121	08-Oct- 2002	Pending
INTEGRATED CIRCUIT WITH A MOS STRUCTURE HAVING REDUCED PARASITIC BIPOLAR TRANSISTOR ACTION	JP	2003-537124	12-Apr- 2004	Pending
INTEGRATED CIRCUIT WITH A MOS STRUCTURE HAVING REDUCED PARASITIC BIPOLAR TRANSISTOR ACTION	EP	02778470.1	14-Apr- 2004	Pending
N-WAY CIRCULAR PHASE INTERPOLATOR FOR GENERATING A SIGNAL HAVING ARBITRARY PHASE	EP	01302646.3	22-Mar- 2001	Pending
HIGH FREQUANCY ANALOG TRANSISTORS, METHOD OF FABRICATION AND CIRCUIT IMPLEMENTATION	JP	2006-49228	24-Feb- 2006	Pending
DIGITAL COMPONENT TESTING APPARATUS AND METHOD	KR	1994-702977	19-Feb- 1993	Pending
DIGITAL COMPONENT TESTING APPARATUS AND METHOD	JP	5514997	19-Feb- 1993	Pending

Techwell, Inc.

Title	Jurisdiction	Reg. No./ Serial No.	Filing Date	Status
Timing Error Detector for Vestigial Side Band	United States	US 7474990	09/29/2006	Granted
Carrier Phase Independent Symbol Timing Recovery Methods for VSB Receivers	United States	12/349,454	01/06/2009	Pending
Reducing Equalizer Error Propagation with a Low Complexity Soft Output Viterbi Decoder	United States	US 7697642	4/13/2010	Granted

Title	Jurisdiction	Reg. No./ Serial No.	Filing Date	Status
Dual PDFE System with Forward- Backward Viterbi	United States	US 7697604	04/17/2006	Granted
Dual PDFE System with Forward- Backward Viterbi	<u>WIPO</u>	PCT/US200 7/009211		Pending
Mixed format media transmission systems and methods	United States	12/363,669	01/30/2009	Pending
Analog equalizer systems and methods for baseband video signals	United States	12/698,061	02/01/2010	Pending
Constellation detection in a multi-mode QAM communications system	United States	12/698,066	02/01/2010	Pending
Carrier phase offset correction for a QAM system	United States	12/698,071	02/01/2010	Pending
Novel frame structure for a QAM system	United States	12/698,037	02/01/2010	Pending
SLOC spot monitoring	United States	12/698,041	02/01/2010	Pending
Mixed format media transmission systems and methods	WIPO	PCT/US10/ 22772	02/01/2010	Pending
Reducing equalizer error propagation with a low complexity soft output viterbi decoder	South Korea	10-2008- 7025508	04/13/2007	Pending
Dual PDFE system with forward-backward viterbi	South Korea	10-2008- 7025509	04/13/2007	Pending
Mixed format media transmission systems and methods	Taiwan	99102857	02/01/2010	Pending
SLOC Analog Equalizer for Baseband Video Signal	United States	61/187,970	06/17/2009	Pending
A Method for Constellation Detection in a Multi-Mode QAM Communications System	United States	61/187,977	06/17/2009	Pending
Novel Carrier Phase Offset Correction for a QAM System	United States	61/187,980	06/17/2009	Pending
Novel Frame Structure for a QAM System	United States	61/187,986	06/17/2009	Pending
SLOC Spot Monitoring	United States	61/187,996	06/17/2009	Pending
Display image enhancement apparatus and method using adaptive interpolation with correlation	Taiwan	TW 94101662		Granted
Method for Determining the Step Size for an LMS Adaptive Equalizer for 8VSB	United States	11/687,909	03/19/2007	Pending

Title	Jurisdiction	Reg. No./ Serial No.	Filing Date	Status
Method for Determining the Step Size for an LMS Adaptive Equalizer for 8VSB	United States	US 7616685	07/11/2007	Granted
Image processing device and camera system	<u>Japan</u>	<u>JP 4418029</u>		

Quellan Inc. - U.S. Registered Patents and Patent Applications

Title	Jurisdiction	Reg. No./ Serial No.	Filing Date / Reg. Date	Status
HIGH-SPEED ANALOG-TO-DIGITAL CONVERTER USING A UNIQUE GRAY CODE HAVING MINIMAL BIT TRANSITIONS	United States	6816101	09-Nov-2004	Granted
ADAPTIVE NOISE FILTERING AND EQUALIZATION FOR OPTIMAL HIGH SPEED MULTILEVAL SIGNAL DECODING	United States	7035361	25-Apr-2006	Granted
METHOD AND SYSTEM FOR CROSSTALK CANCELLATION	United States	7050388	23-May-2006	Granted
METHOD AND SYSTEM FOR ANTENNA INTERFERENCE CANCELLATION	United States	7123676	17-Oct-2006	Granted
MULTILEVEL PULSE POSITION MODULATION FOR EFFICIENT FIBER OPTIC COMMUNICATION	United States	7149256	12-Dec-2006	Granted
INCREASING DATA THROUGHPUT IN OPTICAL FIBER TRANSMISSION SYSTEMS	United States	7173551	06-Feb-2007	Granted
MULTILEVAL SIGNAL CLOCK RECOVERY TECHNIQUE	United States	7212580	01-May-2007	Granted
METHOD AND SYSTEM FOR DECODING MULTILEVEL SIGNALS	United States	7215721	08-May-2007	Granted
INCREASING DATA THROUGHPUT IN OPTICAL FIBER TRANSMISSION SYSTEMS	United States	7307569	11-Dec-2007	Granted
MULTILEVEL PULSE POSITION MODULATION FOR EFFICIENT FIBER OPTIC COMMUNICATION	United States	7352824	01-Apr-2008	Granted
METHOD AND SYSTEM FOR ANTENNA INTERFERENCE CANCELLATION	United States	7366244	29-Apr-2008	Granted
METHOD AND SYSTEM FOR REDUCING SIGNAL INTERFERENCE	United States	7522883	21-Apr-2009	Granted
ADAPTIVE NOISE FILTERING AND EQUALIZATION FOR OPTIMAL HIGH SPEED	United States	7573966	11-Aug-2009	Granted

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Title	Jurisdiction	Reg. No./ Serial No.	Filing Date / Reg. Date	Status
MULTILEVEL SIGNAL DECODING			-	
METHOD AND SYSTEM FOR DECODING	11 1 10 1	7602060	12.0 + 2000	<u> </u>
MULTILEVEL SIGNALS	United States	7602860	13-Oct-2009	Granted
METHOD AND SYSTEM FOR CROSSTALK	United States	7626916	01-Dec-2009	Granted
CANCELLATIONS	Officed States	7626916	01-Det-2009	Granteu
METHOD AND SYSTEM FOR SIGNAL	United States	11/509112	23-Aug-2006	Pending
EMULATION	Officed States	11,303112	23 / (dg 2000	renang
FILTER SHAPING USING A SIGNAL	United States	12/652281	05-Jan-2010	Pending
CANCELLATION FUNCTION				
METHOD AND SYSTEM FOR SLICING A	United States	12/578869	14-Oct-2009	Pending
COMMUNICATION SIGNAL		,		
METHOD AND SYSTEM FOR REDUCING	United States	12/380654	02-Mar-2009	Pending
SIGNAL INTERFERENCE METHOD AND SYSTEM FOR CROSSTALK				
CANCELLATIONS	United States	12/581511	19-Oct-2009	Published
ADAPTIVE NOISE FILTERING AND				
EQUALIZATION FOR OPTIMAL HIGH SPEED	United States	12/583006	11-Aug-2009	Published
MULTILEVEL SIGNAL DECODING		,,		
PRE-CONFIGURATION AND CONTROL OF		42/477000	24 1 1 2000	D !:
RADIO FREQUENCY NOISE CANCELLATION	United States	12/177099	21-Jul-2008	Pending
NOISE SAMPLING DETECTORS	United States	12/236945	24-Sep-2008	Pending
METHOD AND SYSTEM FOR ANTENNA	United States	12/069236	08-Feb-2008	Donding
INTERFERENCE CANCELLATION	Officed States	12/069236	06-Feb-2006	Pending
HIGH-SPEED ANALOG-TO-DIGITAL				
CONVERSION WITH IMPROVED	United States	10/706187	12-Nov-2003	Pending
ROBUSTNESS TO TIMING UNCERTAINTY				
METHOD AND SYSTEM FOR SLICING A	United States	11/022112	22-Dec-2004	Pending
COMMUNICATION SIGNAL		,		
METHOD AND SYSTEM FOR AUTOMATIC	Linite of Chapter	11/450542	00 1 2006	Dan din s
CONTROL IN AN INTERFERENCE CANCELLATION DEVICE	United States	11/450543	09-Jun-2006	Pending
METHOD AND SYSTEM FOR REDUCING				
	United States	11/789899	26-Apr-2007	Published
RADIATED EMISSIONS FROM A COMMUNICATIONS CHANNEL	Officed States	11,703033	20-Api-200/	i ubiisileu
FILTER SHAPING USING A SIGNAL				
CANCELLATION FUNCTION	United States	12/413454	27-Mar-2009	Pending
POWER EXTRACTION FROM SIGNAL SINKS	United States	12/476934	02-Jun-2009	Pending
INTER-PAIR SKEW ADJUSTMENT	United States	12/469450	20-May-2009	Pending
DUPLEXER AND SWITCH ENHANCEMENT	United States	12/432013	29-Apr-2009	Pending

Quellan Inc. - Foreign Registered Patents and Patent Applications

Title		Reg. No./ Serial No.	Filing Date / Reg. Date	Status
METHOD AND SYSTEM FOR DECODING	IL	158211	30-Mar-	Granted

Title	Jurisdiction	Reg. No./	Filing Date /	Status
		Serial No.	Reg. Date	
MULTILEVEL SIGNALS			2009	
INCREASING DATA THROUGHPUT IN		15,000	08-Nov-	Cuantad
OPTICAL FIBER TRANSMISSION SYSTEMS	IL	15686	2008	Granted
METHOD AND SYSTEM FOR CROSSTALK	CD	2421674	15-Nov-	Cuantad
CANCELLATION	GB	2421674	2006	Granted
METHOD AND SYSTEM FOR DECODING	EP	02731304.8	28-Mar-	Donding
MULTILEVEL SIGNALS	EP	02/31304.6	2002	Pending
METHOD AND SYSTEM FOR DECODING	CA	2442922	28-Mar-	Pending
MULTILEVEL SIGNALS	CA .	2442322	2002	T ending
METHOD AND SYSTEM FOR DECODING	wo	US02/11108	28-Mar-	Pending
MULTILEVEL SIGNALS	****	0302/11100	2002	T CHAINS
INCREASING DATA THROUGHPUT IN	wo	US01/50695	21-Dec-	Pending
OPTICAL FIBER TRANSMISSION SYSTEMS	****	0301/30033	2001	1 chang
INCREASING DATA THROUGHPUT IN	CA	2432801	21-Dec-	Pending
OPTICAL FIBER TRANSMISSION SYSTEMS	6 , (2001	1 criding
INCREASING DATA THROUGHPUT IN	EP	01994491.7	21-Dec-	Pending
OPTICAL FIBER TRANSMISSION SYSTEMS			2001	
HIGH-SPEED ADJUSTABLE MULTILEVEL	wo	US02/14459	09-May-	Pending
LIGHT MODULATION			2002	8
ADAPTIVE NOISE FILTERING AND			15-Jul-	
EQUALIZATION FOR OPTIMAL HIGH SPEED	wo	US2003/022237	2003	Pending
MULTILEVAL SIGNAL DECODING			05.4	
METHOD AND SYSTEM FOR CROSSTALK	JP	2006-522704	05-Aug-	Pending
CANCELLATION			2004	
METHOD AND SYSTEM FOR CROSSTALK	KR	7002618/2006	05-Aug-	Pending
CANCELLATION			2004	
METHOD AND SYSTEM FOR CROSSTALK CANCELLATION	DE	112004001455	05-Aug- 2004	Pending
METHOD AND SYSTEM FOR CROSSTALK				
CANCELLATION	WO	04/025232	05-Aug- 2004	Pending
METHOD AND SYSTEM FOR ANTENNA			17-Nov-	
INTERFERENCE CANCELLATION	EP	04811319.5	2004	Pending
METHOD AND SYSTEM FOR ANTENNA			17-Nov-	
INTERFERENCE CANCELLATION	JP		2004	Pending
METHOD AND SYSTEM FOR ANTENNA			17-Nov-	
INTERFERENCE CANCELLATION	KR	7012072/2006	2004	Pending
METHOD AND SYSTEM FOR ANTENNA			17-Nov-	
INTERFERENCE CANCELLATION	WO	04/038564	2004	Pending
METHOD AND SYSTEM FOR ANTENNA			08-Feb-	_
INTERFERENCE CANCELLATION	HK	07101502.2	2007	Pending
METHOD AND SYSTEM FOR REDUCING			14-Dec-	
SIGNAL INTERFERENCE	wo	05/045209	2005	Pending
METHOD AND SYSTEM FOR REDUCING		050510555	14-Dec-	D "
SIGNAL INTERFERENCE	EP	05854008.9	2005	Pending
METHOD AND SYSTEM FOR REDUCING	ID.	07 545730	14-Dec-	Daniel Program
SIGNAL INTERFERENCE	JP	07-545730	2005	Pending
METHOD AND SYSTEM FOR REDUCING	I/D	7016135/2007	14-Dec-	Danalin -
SIGNAL INTERFERENCE	KR	7016135/2007	2005	Pending

Title	Jurisdiction	Reg. No./ Serial No.	Filing Date / Reg. Date	Status
METHOD AND SYSTEM FOR AUTOMATIC CONTROL IN AN INTERFERENCE CANCELLATION DEVICE	JP	08-515992	09-Jun- 2006	Pending
METHOD AND SYSTEM FOR AUTOMATIC CONTROL IN AN INTERFERENCE CANCELLATION DEVICE	wo	06/022640	09-Jun- 2006	Pending
METHOD AND SYSTEM FOR AUTOMATIC CONTROL IN AN INTERFERENCE CANCELLATION DEVICE	TW	95120762	12-Jun- 2006	Pending
METHOD AND SYSTEM FOR SIGNAL EMULATION	wo	06/033067	23-Aug- 2006	Pending
METHOD AND SYSTEM FOR SIGNAL EMULATION	EP	06802258.1	23-Aug- 2006	Pending
METHOD AND SYSTEM FOR SIGNAL EMULATION	JP	08-528149	23-Aug- 2006	Pending
METHOD AND SYSTEM FOR SIGNAL EMULATION	KR	7007089/2008	23-Aug- 2006	Pending
METHOD AND SYSTEM FOR SIGNAL EMULATION	НК	08112987.2	27-Nov- 2008	Pending
METHOD AND SYSTEM FOR REDUCING RADIATED EMISSIONS FROM A COMMUNICATIONS CHANNEL	wo	07/010237	26-Apr- 2007	Pending
METHOD AND SYSTEM FOR REDUCING RADIATED EMISSIONS FROM A COMMUNICATIONS CHANNEL	DE	112996991945	26-Apr- 2007	Pending
METHOD AND SYSTEM FOR REDUCING RADIATED EMISSIONS FROM A COMMUNICATIONS CHANNEL	KR	7026554-2008	26-Apr- 2007	Pending
METHOD AND SYSTEM FOR REDUCING RADIATED EMISSIONS FROM A COMMUNICATIONS CHANNEL	JP	2009-507820	26-Apr- 2007	Pending
NOISE CANCELLATION FOR GPS ANTENNA MODULE	wo	09/054500	20-Aug- 2009	Pending
NOISE CANCELLATION FOR GPS ANTENNA MODULE	TW	98128166	20-Aug- 2009	Published
PRE-CONFIGURATION AND CONTROL OF RADIO FREQUENCY NOISE CANCELLATION	wo	09/51208	21-Jul- 2009	Pending
NOISE SAMPLING DETECTORS	wo	2009/057572	18-Sep- 2009	Pending
FILTER SHAPING USING A SIGNAL CANCELLATION FUNCTION	TW	99107767	17-Mar- 2010	Pending
FILTER SHAPING USING A SIGNAL CANCELLATION FUNCTION	KR	2010-0023665	17-Mar- 2010	Pending
FILTER SHAPING USING A SIGNAL CANCELLATION FUNCTION	CN	tbd	26-Mar- 2010	Pending
FILTER SHAPING USING A SIGNAL CANCELLATION FUNCTION	EP	10158086.8	26-Mar- 2010	Pending
POWER EXTRACTION FROM SIGNAL SINKS	TW	99109006	26-Mar-	Pending

Title	Jurisdiction	Reg. No./ Serial No.	Filing Date / Reg. Date	Status
			2010	
INTER-PAIR SKEW ADJUSTMENT	TW	99109007	26-Mar-	Pending
INTER-PAIN SREW ADJOSTIVIENT	1 00	99109007	2010	rending
DUPLEXER AND SWITCH ENHANCEMENT	KR	2010-0024227	18-Mar-	Pending
DOFLEXER AND SWITCH ENHANCEMENT	KN	2010-0024227	2010	rending

Zilker Labs, Inc.. – U.S. Registered Patents and Patent Applications

Title	Jurisdiction	Reg. No./ Serial No.	Filing Date	Status
HARDWARE EFFICIENT DIGITAL CONTROL LOOP ARCHITECTURE FOR A POER CONVERTER	United States	7239257	Reg. Date 03-Jul-2007	Granted
METHOD FOR ACCURATELY SETTING PARAMETERS INSIDE INTEGRATED CIRCUITS USING INACCURATE EXTERNAL COMPONENTS	United States	7292019	06-Nov-2007	Granted
CURRENT SENSE METHOD	United States	7327130	05-Feb-2008	Granted
METHOD AND APPARATUS FOR IMPROVED DC POWER DELIVERY, MANAGEMENT AND CONFIGURATION	United States	7467309	16-Dec-2008	Granted
METHOD AND APPARATUS FOR IMPROVED DC POWER DELIVERY, MANAGEMENT AND CONFIGURATION	United States	7506179	17-Mar-2009	Granted
TRANSIENT PROCESSING MECHANISM FOR POWER CONVERTERS	United States	7545131	09-Jun-2009	Granted
ADAPTIVE THRESHOLDING TECHNIQUE FOR POWER SUPPLIES DURING MARGINING EVENTS	United States	7568117	28-Jul-2009	Granted
METHODS FOR ACCURATE CURRENT SENSING IN POWER CONVERTERS	United States	7589514	15-Sep-2009	Granted
METHOD FOR USING A MULTI-MASTER MULTI-SLAVE BUS FOR POWER MANAGEMENT	United States	7653757	26-Jan-2010	Granted
METHOD FOR ACCURATELY SETTING PARAMETERS INSIDE INTEGRATED CIRCUITS USING INACCURATE EXTERNAL COMPONENTS	United States	7668607	23-Feb-2010	Granted
AUTONOMOUS SEQUENCING AND FAULT SPREADING	United States	7685320	23-Mar-2010	Granted
POWER MANAGEMENT SYSTEM USING A MULTI-MASTER MULTI-SLAVE BUS AND MULTI-FUNCTION POINT-OF-LOAD REGULATOR	United States	11/425489	26-Jun-2006	Pending
METHOD AND APPARATUS FOR IMPROVED DC POWER DELIVERY, MANAGEMENT AND CONFIGURATION	United States	11/405293	17-Apr-2006	Pending

1567510.05-New York Server 7A - MSW

Title	Jurisdiction	Reg. No./ Serial No.	Filing Date / Reg. Date	Status
TRANSIENT PROCESSING MECHANISM FOR POWER CONVERTERS	United States	12/477,706	03-Jun-2009	Published
METHOD FOR USING A MULTI-MASTER MULTI-SLAVE BUS FOR POWER MANAGEMENT	United States	11/405294	17-Apr-2006	Pending
CONTROL SYSTEM OPTIMIZATION VIA INDEPENDENT PARAMETER ADJUSTMENT	United States	12/118213	09-May-2008	Pending
DEVICE-TO-DEVICE COMMUNICATION BUS FOR DISTRIBUTED POWER MANAGEMENT	United States	12/505218	17-Jul-2009	Published
ADAPTIVE COMPENSATION FOR DIGITAL POWER CONTROLLERS	United States	12/118166	09-May-2008	Pending
CONTROL SYSTEM OPTIMIZATION VIA ADAPTIVE FREQUENCY ADJUSTMENT	United States	12/118260	09-May-2008	Pending
CONTROL SYSTEM OPTIMIZATION VIA DIGITAL DIODE EMULATION	United States	12/118290	09-May-2008	Pending
HIGH PERFORMANCE POWER CONVERSION AND DIGITAL POWER CONTROL	United States	12/118358	09-May-2008	Pending
TRANSIENT PROCESSING MECHANISM FOR POWER CONVERTERS	United States	12/604812	23-Oct-2009	Pending
METHOD FOR PRE-BIAS CORRECTION DURING TURN-ON OF SWITCHING POWER REGULATORS	United States	11/361130	24-Feb-2006	Pending
METHOD FOR CONTROL OF OVERLAP TIMES IN SWITCHING POWER CONVERTERS	United States	11/429484	05-May-2006	Pending
METHOD AND APPARATUS FOR CONTROLLING OPERATING PARAMETERS OF COMPONENTS IN A POWER DISTRIBUTION SYSTEM	United States	11/355703	16-Feb-2006	Pending

Zilker Labs, Inc.. - Foreign Registered Patents and Patent Applications

Title	Jurisdiction	Reg. No./ Serial No.	Filing Date / Reg. Date	Status
TRANSIENT PROCESSING MECHANISM FOR POWER CONVERTERS	CN	200910246842	23-Oct- 2009	Pending
TRANSIENT PROCESSING MECHANISM FOR POWER CONVERTERS	TW	98135898	23-Oct- 2009	Pending
TRANSIENT PROCESSING MECHANISM FOR POWER CONVERTERS	DE	202009013410	23-Oct- 2009	Pending

Kenet, Inc. - U.S. Registered Patents and Patent Applications.

Title	Jurisdiction	Reg. No./ Serial No.	Filing Date / Reg. Date	Status
VOLTAGE RANDOM ACCESS MEMORY (VRAM)	United States	7079067	18-Jul-2006	Granted
ANALOG TO DIGITAL CONVERTER CALIBRATION VIA SYNCHRONOUS DEMODULATION	United States	7106230	12-Sep-2006	Granted
GATE BIAS CIRCUIT FOR MOS CHARGE COUPLED DEVICES	United States	7109784	19-Sep-2006	Granted
A CHARGE COMPARATOR WITH LOW INPUT OFFSET	United States	7173558	06-Feb-2007	Granted
MANUFACTURING CCDS IN A CONVENTIONAL CMOS PROCESS	United States	7179676	20-Feb-2007	Granted
CCD CHARGE-SPLITTER ADJUSTMENT BY STATIC CHARGE GRADIENT	United States	7274052	25-Sep-2007	Granted
ANALOG TO DIGITAL CONVERTER CALIBRATION VIA SYNCHRONOUS DEMODULATION	United States	7400280	15-Jul-2008	Granted
METAL-INSULATOR-METAL CAPACITORS	United States	7439570	21-Oct-2008	Granted
ANALOG ERROR CORRECTION FOR A PIPELINED CHARGE-DOMAIN A/D CONVERTER	United States	7535400	19-May-2009	Granted
CHARGE DOMAIN PIPELINED ANALOG-TO- DIGITAL CONVERTER	United States	7570192	04-Aug-2009	Granted
COMMON-MODE CHARGE CONTROL IN A PIPELINED CHARGE-DOMAIN SIGNAL- PROCESSING CIRCUIT	United States	7576586	18-Aug-2009	Granted
VOLTAGE RANDOM ACCESS MEMORY (VRAM)	United States	12/332168	10-Dec-2008	Published
GATE BIAS CIRCUIT FOR MOS CHARGE COUPLED DEVICES	United States	11/522851	18-Sep-2006	Pending
MANUFACTURING CCDS IN A CONVENTIONAL CMOS PROCESS	United States	11/709105	20-Feb-2007	Published
METAL-INSULATOR-METAL CAPACITORS	United States	12/287045	06-Oct-2008	Published
ANALOG ERROR CORRECTION FOR A PIPELINED CHARGE-DOMAIN A/D CONVERTER	United States	12/423652	14-Apr-2009	Pending
COMMON-MODE CHARGE CONTROL IN A PIPELINED CHARGE-DOMAIN SIGNAL- PROCESSING CIRCUIT	United States	12/543130	18-Aug-2009	Pending
CHARGE-DOMAIN PIPELINED CHARGE- REDISTRIBUTION ANALOG-TO-DIGIAL CONVERTER	United States	12/723019	12-Mar-2010	Pending
INCREASING CHARGE CAPACITY OF CHARGE TRANSFER CIRCUITS WITHOUT ALTERING THEIR CHARGE TRANSFER CHARACTERISTICS	United States	12/330270	08-Dec-2008	Published
AVOIDING FLOATING DIFFUSION CONTAMINATION	United States	12/330215	08-Dec-2008	Published
FLASH CONVERTER DIFFERENTIAL	United States	12/330272	08-Dec-2008	Published

Title	Jurisdiction	Reg. No./ Serial No.	Filing Date / Reg. Date	Status
REFERENCE LADDER AUTO-ZERO CIRCUIT				
FLASH CONVERTER DIFFERENTIAL				
REFERENCE LADDER ADJUSTMENT WITH	United States	12/330224	08-Dec-2008	Published
STABLE COMMON MODE VOLTAGE				
BOOSTED CHARGE TRANSFER PIPELINE	United States	11/807914	30-May-2007	Published
CABLE GATEWAY USING A CHARGE-				
DOMAIN PIPELINE ANALOG TO DIGITAL	United States	12615397	10-Nov-2009	Pending
CONVERTER				
DOPED PLUG FOR CCD GAPS	United States	11/807911	30-May-2007	Pending
LOW POWER 10 GIGABIT ETHERNIT INTERFACE	United States	12/154443	22-May-2008	Published
COMMON-MODE-INSENSITIVE SAMPLER	United States	12/011998	29-Jan-2008	Pending
CHARGE-DOMAIN PIPELINED CHARGE- REDISTRIBUTION ANALOG-TO-DIGIAL CONVERTER	United States	12/007470 6	05-Mar-2008	Pending
BACKGROUND CALIBRATION OF OFFSETS IN INTERLEAVED ANALOG-TO-DIGITAL CONVERTERS	United States	61/220861	26-Jun-2009	Pending
BACKGROUND CALIBRATION OF OFFSETS IN INTERLEAVED ANALOG-TO-DIGITAL CONVERTERS	United States	61/226977	20-Jul-2009	Pending
IMPROVEMENT IN SAMPLER LINEARITY BY SIMULTANEOUS SAMPLING	United States	61/219978	24-Jun-2009	Pending
IMPROVEMENT IN SAMPLER LINEARITY BY SIMULTANEOUS SAMPLING	United States	61308851	26-Feb-2010	Pending
DOPED PLUG FOR CCD GAPS	United States	60/809773	31-May-2006	Pending
A CHARGE COMPARATOR WITH LOW INPUT OFFSET	United States	12/322658	05-Feb-2009	Pending
CORRECTING CHARGE TRANSFER INEFFICIENCY IN A CHARGE COUPLED ANALOG TO DIGITAL CONVERTER	United States	12/494049	29-Jun-2009	Pending

Kenet, Inc. – Foreign Registered Patents and Patent Applications.

Title	Jurisdiction	Reg. No./ Serial No.	Filing Date / Reg. Date	Status
DEVICE FOR SUBTRACTING/ADDING A CONSTANT AMOUNT OF CHARGE IN A CHARGE-COUPLED DEVICE	KR	2007001504	23-Apr- 2007	Pending
VOLTAGE RANDOM ACCESS MEMORY (VRAM)	wo	2005024137	06-Jul-2005	Pending
VOLTAGE RANDOM ACCESS MEMORY (VRAM)	CA	2573147	06-Jul-2005	Pending
VOLTAGE RANDOM ACCESS MEMORY (VRAM)	EP	05769296.4	06-Jul-2005	Pending

Title	Jurisdiction	Reg. No./ Serial No.	Filing Date / Reg. Date	Status
VOLTAGE RANDOM ACCESS MEMORY (VRAM)	JP	20007520504	06-Jul-2005	Pending
VOLTAGE RANDOM ACCESS MEMORY (VRAM)	KR	7002830	06-Jul-2005	Pending
ANALOG TO DIGITAL CONVERTER CALIBRATION VIA SYNCHRONOUS DEMODULATION	TW	94119264	10-Jun- 2005	Pending
ANALOG TO DIGITAL CONVERTER CALIBRATION VIA SYNCHRONOUS DEMODULATION	KR	07/7001066	17-Jun- 2005	Pending
ANALOG TO DIGITAL CONVERTER CALIBRATION VIA SYNCHRONOUS DEMODULATION	EP	05760909	17-Jun- 2005	Pending
ANALOG TO DIGITAL CONVERTER CALIBRATION VIA SYNCHRONOUS DEMODULATION	wo	06/021568	17-Jun- 2005	Published
ANALOG TO DIGITAL CONVERTER CALIBRATION VIA SYNCHRONOUS DEMODULATION	JP	2007516803	17-Jun- 2005	Pending
ANALOG TO DIGITAL CONVERTER CALIBRATION VIA SYNCHRONOUS DEMODULATION	CA	2571228	17-Jun- 2005	Pending
GATE BIAS CIRCUIT FOR MOS CHARGE COUPLED DEVICES	wo	05/021566	17-Jun- 2005	Published
A CHARGE COMPARATOR WITH LOW INPUT OFFSET	wo	05/024007	06-Jul-2005	Pending
CCD CHARGE-SPLITTER ADJUSTMENT BY STATIC CHARGE GRADIENT	wo	2005/023791	06-Jul-2005	Pending
MANUFACTURING CCDS IN A CONVENTIONAL CMOS PROCESS	KR	07/7022768	09-Feb- 2006	Pending
MANUFACTURING CCDS IN A CONVENTIONAL CMOS PROCESS	EP	06720633.4	09-Feb- 2006	Published
MANUFACTURING CCDS IN A CONVENTIONAL CMOS PROCESS	CA	2603678	09-Feb- 2006	Pending
MANUFACTURING CCDS IN A CONVENTIONAL CMOS PROCESS	JP	08/504038	09-Feb- 2006	Pending
MANUFACTURING CCDS IN A CONVENTIONAL CMOS PROCESS	TW	95104845	14-Feb- 2006	Published
INCREASING CHARGE CAPACITY OF CHARGE TRANSFER CIRCUITS WITHOUT ALTERING THEIR CHARGE TRANSFER CHARACTERISTICS	TW	97147290	05-Dec- 2008	Pending
INCREASING CHARGE CAPACITY OF CHARGE TRANSFER CIRCUITS WITHOUT ALTERING THEIR CHARGE TRANSFER CHARACTERISTICS	wo	0131479	08-Dec- 2008	Pending
AVOIDING FLOATING DIFFUSION CONTAMINATION	TW	97147289	05-Dec- 2008	Pending

Title	Jurisdiction	Reg. No./ Serial No.	Filing Date / Reg. Date	Status
AVOIDING FLOATING DIFFUSION CONTAMINATION	wo	013474	07-Dec- 2008	Pending
BOOSTED CHARGE TRANSFER PIPELINE	TW	96119259	30-May- 2007	Pending
BOOSTED CHARGE TRANSFER PIPELINE	wo	07/012906	31-May- 2007	Published
BOOSTED CHARGE TRANSFER PIPELINE	CN	07/80019871. 6	31-May- 2007	Published
BOOSTED CHARGE TRANSFER PIPELINE	JP	2009513290	31-May- 2007	Published
BOOSTED CHARGE TRANSFER PIPELINE	KR	20087029051	31-May- 2007	Published
BOOSTED CHARGE TRANSFER PIPELINE	EP	07795582.1	31-May- 2007	Published
METAL-INSULATOR-METAL CAPACITORS	EP	07795656.3	01-Jun- 2007	Published
METAL-INSULATOR-METAL CAPACITORS	CN	200780020220	01-Jun- 2007	Published
METAL-INSULATOR-METAL CAPACITORS	TW	96119667	01-Jun- 2007	Pending
METAL-INSULATOR-METAL CAPACITORS	wo	07/013044	01-Jun- 2007	Published
DOPED PLUG FOR CCD GAPS	wo	07/012905	31-May- 2007	Published
CHARGE DOMAIN PIPELINED ANALOG-TO- DIGITAL CONVERTER	EP	08724614.6	18-Jan- 2008	Published
CHARGE DOMAIN PIPELINED ANALOG-TO- DIGITAL CONVERTER	CN	200880002327.5	18-Jan- 2008	Published
CHARGE DOMAIN PIPELINED ANALOG-TO- DIGITAL CONVERTER	KR	102009701507 1	18-Jan- 2008	Published
CHARGE DOMAIN PIPELINED ANALOG-TO- DIGITAL CONVERTER	wo	08/000687	18-Jan- 2008	Published
CHARGE DOMAIN PIPELINED ANALOG-TO- DIGITAL CONVERTER	TW	97101976	18-Jan- 2008	Pending
ANALOG ERROR CORRECTION FOR A PIPELINED CHARGE-DOMAIN A/D CONVERTER	WO	08/000825	23-Jan- 2008	Published
ANALOG ERROR CORRECTION FOR A PIPELINED CHARGE-DOMAIN A/D CONVERTER	CN	20080002640. 9	21-Aug- 2009	Published
COMMON-MODE-INSENSITIVE SAMPLER	KR	2009-7015493	29-Jan- 2008	Published
COMMON-MODE-INSENSITIVE SAMPLER	wo	08/001263	29-Jan- 2008	Published
COMMON-MODE-INSENSITIVE SAMPLER	EP	08713358.3	29-Jan- 2008	Published
COMMON-MODE-INSENSITIVE SAMPLER	CN	200880003289	29-Jan- 2008	Published

Title	Jurisdiction	Reg. No./ Serial No.	Filing Date / Reg. Date	Status
COMMON-MODE CHARGE CONTROL IN A PIPELINED CHARGE-DOMAIN SIGNAL- PROCESSING CIRCUIT	wo	08/01679	08-Feb- 2008	Pending
COMMON-MODE CHARGE CONTROL IN A PIPELINED CHARGE-DOMAIN SIGNAL- PROCESSING CIRCUIT	KR	09-7015494	23-Jul-2009	Pending
COMMON-MODE CHARGE CONTROL IN A PIPELINED CHARGE-DOMAIN SIGNAL- PROCESSING CIRCUIT	EP	08725325.8	10-Aug- 2009	Pending
CHARGE-DOMAIN PIPELINED CHARGE- REDISTRIBUTION ANALOG-TO-DIGIAL CONVERTER	DE	112008000602	05-Mar- 2008	Published
CHARGE-DOMAIN PIPELINED CHARGE- REDISTRIBUTION ANALOG-TO-DIGIAL CONVERTER	wo	08/002933	05-Mar- 2008	Pending
CHARGE-DOMAIN PIPELINED CHARGE- REDISTRIBUTION ANALOG-TO-DIGIAL CONVERTER	CN	80007242.6	25-Sep- 2009	Pending

Intersil Americas, Inc. – U.S. Registered Patents and Pending Applications

Title	Jurisdiction	Reg. No./ Serial No.	Filing Date / Reg. Date	Status
PHASE-LOCK LOOP HAVING PROGRAMMABLE BANDWIDTH	United States	6853252	08-Feb- 2005	Granted
SYNCHRONOUS-RECTIFIED DC TO DC CONVERTER WITH IMPROVED CURRENT SENSING AND ASSOCIATED METHODS	United States	RE38487	06-Apr- 2004	Granted
SYNCHRONOUS-RECTIFIED DC TO DC CONVERTER WITH IMPROVED CURRENT SENSING AND ASSOCIATED METHODS	United States	RE38940	24-Jan-2006	Granted
MULTI-PHASE CONVERTER WITH BALANCED CURRENTS	United States	RE38454	09-Mar- 2004	Granted
MULTI-PHASE CONVERTER WITH BALANCED CURRENTS	United States	RE38846	25-Oct- 2005	Granted
Current source with supply current minimizing	United States	US 5585712	12/17/1996	Granted
HIGH EFFICIENCY POWER MOS SWITCH	United States	7076070	11-Jul-2006	Granted
CURRENT-CONTROLLED CARRIER TRACKING FILTER FOR IMPROVED	United States	6549590	15-Apr- 2003	Granted

1567510.05-New York Server 7A - MSW

Title	Jurisdiction	Reg. No./ Serial No.	Filing Date / Reg. Date	Status
SPURIOUS SIGNAL SUPPRESSION				
WAFER TRENCH ARTICLE AND PROCESS	United States	6551897	22-Apr- 2003	Granted
DC-TO-DC CONVERTER WITH INDUCTOR CURRENT SENSING AND RELATED METHODS	United States	5982160	09-Nov- 1999	Granted
DEVICES WITH PATTERNED WELLS AND METHOD FOR FORMING SAME	United States	6979885	27-Dec- 2005	Granted
REFERENCE CURRENT/VOLTAGE GENERATOR HAVING REDUCED SENSITIVITY TO VARIATIONS IN POWER SUPPLY VOLTAGE	United States	6522117	18-Feb- 2003	Granted
LASER DECAPSULATION APPARATUS AND METHOD	United States	7166186	23-Jan-2007	Granted
LASER DECAPSULATION APPARATUS AND METHOD	United States	7316936	08-Jan-2008	Granted
METHOD FOR MAKING A DIFFUSED BACK-SIDE LAYER ON A BONDED- WAFER WITH A THICK BOND OXIDE	United States	6867495	15-Mar- 2005	Granted
METHOD FOR MAKING A DIFFUSED BACK-SIDE LAYER ON A BONDED- WAFER WITH A THICK BOND OXIDE	United States	6946364	20-Sep- 2005	Granted
METHOD FOR MAKING A DIFFUSED BACK-SIDE LAYER ON A BONDED- WAFER WITH A THICK BOND OXIDE	United States	7285475	23-Oct- 2007	Granted
BONDED SUBSTRATE FOR AN INTEGRATED CIRCUIT CONTAINING A PLANAR INTRINSIC GETTERING ZONE (as amended)	United States	6825532	30-Nov- 2004	Granted
BONDED SUBSTRATE FOR AN INTEGRATED CIRCUIT CONTAINING A PLANAR INTRINSIC GETTERING ZONE (as amended)	United States	7052973	30-May- 2006	Granted
METHOD OF FORMING RESISTIVE CONTACTS ON INTEGRATED CIRCUITS WITH MOBILITY SPOILING IONS INCLUDING HIGH RESISTIVE CONTACTS AND LOW RESISTIVITY SILICIDE CONTACTS	United States	6667523	23-Dec- 2003	Granted
SYNCHRONOUS-RECTIFIED DC TO DC CONVERTER WITH IMPROVED CURRENT SENSING AND ASSOCIATED METHODS	United States	6246220	12-Jun- 2001	Granted
MULTI-PHASE CONVERTER WITH	United States	6278263	21-Aug-	Granted

Title	Jurisdiction	Reg. No./ Serial No.	Filing Date / Reg. Date	Status
BALANCED CURRENTS			2001	
MULTI-PHASE CONVERTER WITH BALANCED CURRENTS	United States	RE40593	02-Dec- 2008	Granted
SELF-ALIGNMENT OF SEPARATED REGIONS IN A LATERAL MOSFET STRUCTURE OF AN INTEGRATED CIRCUIT	United States	6822292	23-Nov- 2004	Granted
SELF-ALIGNMENT OF SEPARATED REGIONS IN A LATERAL MOSFET STRUCTURE OF AN INTEGRATED CIRCUIT	United States	6974753	13-Dec- 2005	Granted
SELF-ALIGNMENT OF SEPARATED REGIONS IN A LATERAL MOSFET STRUCTURE OF AN INTEGRATED CIRCUIT	United States	7161223	09-Jan-2007	Granted
SELF-ALIGNMENT OF SEPARATED REGIONS IN A LATERAL MOSFET STRUCTURE OF AN INTEGRATED CIRCUIT	United States	7410860	12-Aug- 2008	Granted
SELF-ALIGNMENT OF SEPARATED REGIONS IN A LATERAL MOSFET STRUCTURE OF AN INTEGRATED CIRCUIT	United States	7687336	30-Mar- 2010	Granted
ESD PROTECTION NETWORKS UTILIZING PRECHARGED BUS LINES	United States	6924963	02-Aug- 2005	Granted
COMPLEMENTARY METAL OXIDE SEMICONDUCTOR WITH IMPROVED SINGLE EVENT PERFORMANCE	United States	6653708	25-Nov- 2003	Granted
POWER DEVICE DRIVING CIRCUIT AND ASSOCIATED METHODS	United States	6507226	14-Jan-2003	Granted
REDUNDANT LATCH CIRCUIT AND ASSOCIATED METHODS	United States	6504411	07-Jan-2003	Granted
OVERVOLTAGE PROTECTION CIRCUIT FOR BIDIRECTIONAL TRANSMISSION GATE	United States	6633470	14-Oct- 2003	Granted
TEMPERATURE-INSENSITIVE OUTPUT CURRENT LIMITER NETWORK FOR ANALOG INTEGRATED CIRCUIT	United States	6570431	27-May- 2003	Granted
PRECISION, LOW-POWER TRANSIMPEDANCE CIRCUIT WITH DIFFERENTIAL CURRENT SENSE INPUTS AND SINGLE ENDED VOLTAGE OUTPUT	United States	6400187	04-Jun- 2002	Granted
PRECISION LOW POWER OPERATIONAL AMPLIFIER WITH GAIN	United States	6411164	25-Jun- 2002	Granted

		Reg. No./	Filing Date	
Title	Jurisdiction	Serial No.	Reg. Date	Status
INVARIANT BANDWIDTH			Reg. Date	
MULTISTAGE PRECISION, LOW				
INPUT/OUTPUT OVERHEAD, LOW				
POWER, HIGH OUTPUT IMPEDANCE	United States	6507236	14-Jan-2003	Granted
AND LOW CROSSTALK CURRENT				
MIRROR MECHANISM FOR MINIMIZING				
CURRENT MIRROR TRANSISTOR BASE			11-Feb-	
CURRENT ERROR FOR LOW OVERHEAD	United States	6518832	2003	Granted
VOLTAGE APPLICATIONS				
REDUCED PROPAGATION DELAY				
CURRENT MODE CASCADED ANALOG-	United States	6492930	10-Dec-	Granted
TO-DIGITAL CONVERTER AND		0.02000	2002	Grantea
THRESHOLD BIT CELL THEREFOR				
TRANSCONDUCTANCE AMPLIFIER BASED PRECISION HALF WAVE AND	United States	6452450	17-Sep-	Granted
FULL WAVE RECTIFIER CIRCUIT	Officed States	0432430	2002	Granted
DUAL-EDGE FUNCTION CLOCK				
GENERATOR AND METHOD OF				
DERIVING CLOCKING SIGNALS FOR	United States	6664833	16-Dec-	Granted
EXECUTION REDUCED INSTRUCTION		000.000	2003	2
SEQUENCES IN A RE-PROGRAMMABLE I/O INTERFACE				
HERMETICALLY SEALED INTEGRATED				
CIRCUIT PACKAGE INCORPORATING				
PRESSURE RELIEF VALVE FOR	United States	6448637	10-Sep-	Granted
EQUALIZING INTERIOR AND EXTERIOR	Officed States	0446057	2002	Granted
PRESSURES WHEN PLACED IN				
SPACEBORNE ENVIRONMENT				
LATERAL DMOS STRUCTURE WITH LATERAL EXTENSION STRUCTURE FOR			17-May-	
REDUCED CHARGE TRAPPING IN GATE	United States	6894349	2005	Granted
OXIDE				
LATERAL DMOS STRUCTURE WITH				
LATERAL EXTENSION STRUCTURE FOR	United States	7655515	02-Feb-	Granted
REDUCED CHARGE TRAPPING IN GATE			2010	
OXIDE INTEGRATED CIRCUIT WITH CURRENT-				
LIMITED POWER OUTPUT AND	United States	6603358	05-Aug-	Granted
ASSOCIATED METHOD			2003	
INTEGRATED CIRCUIT WITH CURRENT			27_Apr	
SENSE CIRCUIT AND ASSOCIATED	United States	6727745	27-Apr- 2004	Granted
METHODS				
INTEGRATED CIRCUIT WITH A MOS	United States	6765247	20-Jul-2004	Granted

Title	Jurisdiction	Reg. No./ Serial No.	Filing Date / Reg. Date	Status
STRUCTURE HAVING REDUCED				
PARASITIC BIPOLAR TRANSISTOR ACTION				
INTEGRATED CIRCUIT WITH A MOS				
STRUCTURE HAVING REDUCED	United States	6902967	07-Jun-	Granted
PARASITIC BIPOLAR TRANSISTOR	Officed States		2005	Granted
ACTION REDUNDANT COMPARATOR DESIGN				
FOR IMPROVED OFFSET VOLTAGE AND	United States	6563347	13-May-	Granted
SINGLE EVENT EFFECTS HARDNESS			2003	
AN OPERATIONAL AMPLIFIER				
INCLUDING A RIGHT-HALF PLANE ZERO	United States	6538511	25-Mar-	Granted
REDUCTION CIRCUIT AND RELATED METHOD			2003	
SYMBOL TIMING RECOVERY BASED ON	United States	F6712F7	23-Sep-	Crantad
COMPLEX SAMPLE MAGNITUDE	United States	5671257	1997	Granted
METHOD AND APPARATUS FOR	United Charac	F774004	30-Jun-	Cuantad
TRANSLATING DIGITAL DATA INTO AN ANALOG SIGNAL	United States	5774084	1998	Granted
CURRENT LIMITING SWITCH AND	United Character	6535010	25-Feb-	Curatad
RELATED METHOD	United States	6525919	2003	Granted
MOS INTEGRATED CIRCUIT WITH	United States	6552392	22-Apr-	Granted
REDUCED ON RESISTANCE MOS INTEGRATED CIRCUIT WITH		6897103	2003 24-May-	
REDUCED ON RESISTANCE	United States	0007.200	2005	Granted
SUBSCRIBER LINE INTERFACE CIRCUIT				
(SLIC) INCLUDING A TRANSIENT	United States	7167557	23-Jan-2007	Granted
OUTPUT CURRENT LIMIT CIRCUIT AND RELATED METHOD				
ROTATIONALLY INVARIANT DIGITAL	11 2 16	6202500	21-May-	6
COMMUNICATIONS	United States	6392500	2002	Granted
DISTORTION-COMPENSATED DIGITAL				
COMMUNICATIONS RECEIVER AND METHOD THEREFOR	United States	6507628	14-Jan-2003	Granted
PRAGMATIC TRELLIS-CODED DIGITAL				
COMMUNICATION WITH MULTI-	United States	6236685	22-May- 2001	Granted
STAGE BRANCH METRICS			2001	
CONSTRAINED-ENVELOPE TRANSMITTER AND METHOD	United States	6104761	15-Aug-	Granted
THEREFOR	Officed States	0104701	2000	Granted
CONSTRAINED-ENVELOPE			02-Apr-	
TRANSMITTER AND METHOD	United States	6366619	2002	Granted
THEREFOR DIGITAL COMMUNICATION RECEIVER	United States	6442217		Granted
DIGITAL COMMUNICATION RECEIVER	Officed States	0442217	27-Aug-	Granted

Title	Jurisdiction	Reg. No./	Filing Date	Status
		Serial No.	Reg. Date	
WITH DIGITAL, IF, I-Q BALANCER			2002	
COMMUNICATION SYSTEM WITH END- TO-END QUADRATURE BALANCE CONTROL	United States	6222878	24-Apr- 2001	Granted
QPSK/QBL-MSK WAVEFORM ENHANCEMENT	United States	5818867	06-Oct- 1998	Granted
RAPID SYNCHRONIZATION FOR COMMUNICATION SYSTEMS	United States	5818832	06-Oct- 1998	Granted
RAPID SYNCHRONIZATION FOR COMMUNICATION SYSTEMS	United States	6041088	21-Mar- 2000	Granted
SPATIALLY REDUNDANT AND COMPLEMENTARY SEMICONDUCTOR DEVICE-BASED, SINGLE EVENT TRANSIENT-RESISTANT LINEAR AMPLIFIER CIRCUIT ARCHITECTURE	United States	6525590	25-Feb- 2003	Granted
TRELLIS CODED MODULATION COMMUNCIATIONS USING PILOT BITS TO RESOLVE PHASE AMBIGUITIES	United States	5878085	02-Mar- 1999	Granted
SIGNAL CONVERTER USING MULTIPLE DATA STREAMS AND METHOD THEREFOR	United States	5870047	09-Feb- 1999	Granted
ROTATIONALLY INVARIANT PRAGMATIC TRELLIS-CODED DIGITAL COMMUNICATION SYSTEM AND METHOD THEREFOR	United States	5995551	30-Nov- 1999	Granted
PRAGMATIC ENCODER AND METHOD THEREFOR	United States	5910967	08-Jun- 1999	Granted
PRAGMATIC DECODER AND METHOD THEREFOR	United States	6078625	20-Jun- 2000	Granted
DATA COMMUNICATION SYSTEM AND METHOD THEREFOR	United States	6005897	21-Dec- 1999	Granted
PRAGMATIC TRELLIS-CODED MODULATION SYSTEM AND METHOD THEREFOR	United States	6097764	01-Aug- 2000	Granted
PHASE-NOISE COMPENSATED DIGITAL COMMUNICATION RECEIVER AND METHOD THEREFOR	United States	6151368	21-Nov- 2000	Granted
PHASE-NOISE COMPENSATED DIGITAL COMMUNICATION RECEIVER AND METHOD THEREFOR	United States	6363124	26-Mar- 2002	Granted
DIGITAL TUNER	United States	6141389	31-Oct- 2000	Granted
AN ANALOG TO DIGITAL CONVERTER USING SUBRANGING AND	United States	6570523	27-May- 2003	Granted

Title	Jurisdiction	Reg. No./ Serial No.	Filing Date / Reg. Date	Status
INTERPOLATION				
CALIBRATION OF RESISTOR LADDER USING DIFFERENCE MEASUREMENT AND PARALLEL RESISTIVE CORRECTION	United States	6628216	30-Sep- 2003	Granted
SYSTEM AND METHOD OF DC CALIBRATION OF AMPLIFIERS	United States	6714886	30-Mar- 2004	Granted
TRACK AND HOLD WITH DUAL PUMP CIRCUIT	United States	6731155	04-May- 2004	Granted
A METHOD FOR FABRICATING ENHANCED EPROM STRUCTURES WITH ACCENTUATED HOT ELECTRON GENERATION REGIONS	United States	6921690	26-Jul-2005	Granted
REMOTE POWER AMPLIFIER LINEARIZATION	United States	7088958	08-Aug- 2006	Granted
SEALED NITRIDE LAYER FOR INTEGRATED CIRCUITS	United States	7605445	20-Oct- 2009	Granted
THERMAL COMPENSATED CURRENT SENSING OF INTRINSIC POWER CONVERTER ELEMENTS	United States	6812677	02-Nov- 2004	Granted
THERMAL COMPENSATED CURRENT SENSING OF INTRINSIC POWER CONVERTER ELEMENTS	United States	6833690	21-Dec- 2004	Granted
THERMAL COMPENSATED CURRENT SENSING OF INTRINSIC POWER CONVERTER ELEMENTS	United States	6870352	22-Mar- 2005	Granted
ADJUSTABLE INTEGRATED THERMAL COMPENSATION METHOD FOR ELECTRONIC CIRCUITS UTILIZING TEMPERATURE-DEPENDENT SENSING ELEMENTS	United States	6687105	03-Feb- 2004	Granted
MAGNETIC THIN FILM INDUCTORS	United States	6700472	02-Mar- 2004	Granted
MAGNETIC THIN FILM INDUCTORS	United States	6822548	23-Nov- 2004	Granted
ELECTROLUMINESCENT DRIVER CIRCUIT	United States	6693387	17-Feb- 2004	Granted
ELECTROLUMINESCENT DRIVER CIRCUIT	United States	7151344	19-Dec- 2006	Granted
A SEMICONDUCTOR DEVICE MANUFACTURING WITH A REDUCED MASK COUNT BURIED LAYER	United States	6624497	23-Sep- 2003	Granted
INTEGRATED CIRCUIT FOR GENERATING A PLURALITY OF DIRECT CURRENT (DC) OUTPUT VOLTAGES	United States	7023187	04-Apr- 2006	Granted

Title	Jurisdiction	Reg. No./ Serial No.	Filing Date / Reg. Date	Status
CONSTRAINED-ENVELOPE DIGITAL COMMUNICATIONS TRANSMITTER AND METHOD THEREFOR	United States	6999522	14-Feb- 2006	Granted
DIGITAL TRANSMITTER WITH CONSTRAINED ENVELOPE AND SPECTRAL REGROWTH OVER A PLURALITY OF CARRIERS	United States	6928121	09-Aug- 2005	Granted
PROGRAMMABLE SUBSCRIBER LINE CIRCUIT PARTITIONED INTO HIGH VOLTAGE INTERFACE AND DIGITAL CONTROL SUBSECTIONS	United States	7050577	23-May- 2006	Granted
PROGRAMMABLE SUBSCRIBER LINE CIRCUIT PARTITIONED INTO HIGH VOLTAGE INTERFACE AND DIGITAL CONTROL SUBSECTIONS	United States	7260214	21-Aug- 2007	Granted
ACTIVE MODE LINE VOLTAGE REGULATOR FOR RINGING SUBSCRIBER LINE INTERFACE CIRCUIT	United States	7130414	31-Oct- 2006	Granted
INTEGRATED CIRCUIT WITH A MOS CAPACITOR	United States	6835628	28-Dec- 2004	Granted
INTEGRATED CIRCUIT WITH A MOS CAPACITOR	United States	7042064	09-May- 2006	Granted
DC-TO-DC CONVERTER WITH FAST OVERRIDE FEEDBACK CONTROL AND ASSOCIATED METHODS	United States	6696825	24-Feb- 2004	Granted
POWER AMPLIFIER LINEARIZER THAT COMPENSATES FOR LONG-TIME CONSTANT MEMORY EFFECTS AND METHOD THEREFOR	United States	6731168	04-May- 2004	Granted
SYNTHETIC RIPPLE REGULATOR	United States	6791306	09-Sep- 2004	Granted
SYNTHETIC RIPPLE REGULATOR	United States	7132820	07-Nov- 2006	Granted
PROGRAMMABLE CURRENT-SENSING CIRCUIT PROVIDING CONTINUOUS TEMPERATURE COMPENSATION FOR DC-DC CONVERTER	United States	RE40915	15-Sep- 2009	Granted
DISCRETE STEP TEMPERATURE COMPENSATED CURRENT SENSING TECHNIQUE FOR DC TO DC	United States	6700365	02-Mar- 2004	Granted
EFFICIENT BUCK TOPOLOGY DC-DC POWER STAGE UTILIZING MONOLITHIC N-CHANNEL UPPER FET AND PILOT CURRENT SENSING	United States	6734656	11-May- 2004	Granted

Title	Jurisdiction	Reg. No./ Serial No.	Filing Date / Reg. Date	Status
PHASED DETECTOR AND METHOD FOR A SHORTENING PHASE-ERROR- CORRECTION PULSE	United States	7471756	30-Dec- 2008	Granted
A METHOD OF FABRICATING ENHANCED EPROM STRUCTURES WITH ACCENTUATED HOT ELECTRON GENERATION REGIONS	United States	6492225	10-Dec- 2002	Granted
AN ENHANCED EPROM STRUCTURES WITH ACCENTUATED HOT ELECTRON GENERATION REGIONS	United States	6621116	16-Sep- 2003	Granted
ENHANCED EPROM STRUCTURES WITH ACCENTUATED HOT ELECTRON GENERATION REGIONS	United States	6566705	20-May- 2003	Granted
A SEMICONDUCTOR DEVICE MANUFACTURING WITH A REDUCED MASK COUNT BURIED LAYER PROCESS	United States	6979624	27-Dec- 2005	Granted
NUMERICALLY MODELING INDUCTIVE CIRCUIT ELEMENTS	United States	6775807	10-Aug- 2004	Granted
NUMERICALLY MODELING INDUCTIVE CIRCUIT ELEMENTS	United States	7310595	18-Dec- 2007	Granted
NPN BASE FOR IMPROVED PERFORMANCE	United States	6822314	23-Nov- 2004	Granted
METHOD AND CIRCUIT FOR SCALING AND BALANCING INPUT AND OUTPUT CURRENTS IN A MULTI-PHASE DC-DC CONVERTER USING DIFFERENT INPUT VOLTAGES	United States	6897636	24-May- 2005	Granted
MODIFIED BROKAW CELL-BASED CIRCUIT FOR GENERATING OUTPUT CURRENT THAT VARIES LINEARLY WITH TEMPERATURE	United States	6836160	28-Dec- 2004	Granted
CLOSED LOOP DIODE EMULATOR FOR DC-DC CONVERTER	United States	6815936	09-Nov- 2004	Granted
VOLTAGE REFERENCE FILTER FOR SUBSCRIBER LINE INTERFACE CIRCUIT	United States	6950514	27-Sep- 2005	Granted
ARRANGEMENT FOR BACK-BIASING MULTIPLE INTEGRATED CIRCUIT SUBSTRATES AT MAXIMUM SUPPLY VOLTAGE AMONG ALL CIRCUITS	United States	6765290	20-Jul-2004	Granted
BIPOLAR TRANSISTOR FOR AN INTEGRATED CIRCUIT HAVING VARIABLE VALUE EMITTER BALLAST RESISTORS	United States	6946720	20-Sep- 2005	Granted
BIPOLAR TRANSISTOR FOR AN	United States	7314791	01-Jan-2008	Granted

Title	Jurisdiction	Reg. No./ Serial No.	Filing Date	Status
		301141 :104	Reg. Date	
INTEGRATED CIRCUIT HAVING				
VARIABLE VALUE EMITTER BALLAST				
RESISTORS				
BIPOLAR TRANSISTOR FOR AN				
INTEGRATED CIRCUIT HAVING	United States	7564117	21-Jul-2009	Granted
VARIABLE VALUE EMITTER BALLAST	Officed States	7504117	21 301 2003	Grancea
RESISTORS				
METHOD OF SETTING BI-DIRECTIONAL			09-Mar-	
OFFSET IN A PWM CONTROLLER	United States	6703893	2004	Granted
USING A SINGLE PIN			2004	
SMOOTH VOLTAGE REGULATION			08-Aug-	
TRANSITION CIRCUIT HAVING FAST	United States	7088015	2006	Granted
RECOVERY			2000	
PWM CONTROLLER WITH INTEGRATED	United States	7269217	11-Sep-	Granted
PLL	Officed States	7209217	2007	Granted
BANDGAP REFERENCE CIRCUIT FOR	United States	6914475	05-Jul-2005	Granted
LOW SUPPLY VOLTAGE APPLICATIONS	Officed States	0914475	05-Jul-2005	Granteu
CHARGE PUMP DRIVE SIGNAL	United States	6738273	18-May-	Granted
RECOVERY CIRCUIT	Officed States	0/382/3	2004	Granted
DIGITAL DIODE EMULATION FOR	United States	6643145	04-Nov-	Granted
DC/DC CONVERTERS	Officed States	0045145	2003	Granteu
NON-LINEAR CURRENT GENERATOR			14 Con	
FOR HIGH-ORDER CURVATURE	United States	6791307	14-Sep- 2004	Granted
COMPENSATED REFERENCES			2004	
TRANSIENT-PHASE PWM POWER	United States	7100680	19-Sep-	Crantad
SUPPLY AND METHOD	United States	7109689	2006	Granted
MODE-DEPENDENT, MULTIPLE BIAS-			21 Fab	
DRIVEN BATTERY SWITCH FOR	United States	7003103	21-Feb-	Granted
SUBSCRIBER LINE INTERFACE CIRCUIT			2006	
MODE-DEPENDENT, MULTIPLE BIAS-		7260102		
DRIVEN BATTERY SWITCH FOR	United States	7260103	21-Jul-2007	Granted
SUBSCRIBER LINE INTERFACE CIRCUIT				
ENHANCED HIGH VOLTAGE INTERFACE			47 4	
FOR PARTITIONED SUBSCRIBER LINE	United States	7206405	17-Apr-	Granted
INTERFACE CIRCUIT			2007	
CONSTANT DEADTIME CONTROL IN A			16.11	
FEED FORWARD ENABLED PULSE	United States	6819154	16-Nov-	Granted
WIDTH MODULATOR CONTROLLER			2004	
LI-ION/LI-POLYMER BATTERY CHARGER				
CONFIGURED TO BE DC-POWERED	Haite and Charles	6044705	10 los 2005	Cupation
FROM MULTIPLE TYPES OF WALL	United States	6844705	18-Jan-2005	Granted
ADAPTERS				
LI-ION/LI-POLYMER BATTERY CHARGER	11-0-10-1	6917184	42 1 1 2225	C
CONFIGURED TO BE DC-POWERED	United States		12-Jul-2005	Granted
	United States	691/184	12-Jul-2005	Granted

Title	Jurisdiction	Reg. No./ Serial No.	Filing Date / Reg. Date	Status
FROM MULTIPLE TYPES OF WALL ADAPTERS				
LI-ION/LI-POLYMER BATTERY CHARGER CONFIGURED TO BE DC-POWERED FROM MULTIPLE TYPES OF WALL ADAPTERS	United States	6998820	14-Feb- 2006	Granted
LI-ION/LI-POLYMER BATTERY CHARGER CONFIGURED TO BE DC-POWERED FROM MULTIPLE TYPES OF WALL ADAPTERS	United States	7141954	28-Nov- 2006	Granted
ROBUST FRACTIONAL CLOCK-BASED PULSE GENERATOR FOR DIGITAL PULSE WIDTH MODULATOR	United States	6819190	16-Nov- 2004	Granted
HIGH RESOLUTION DIGITAL PULSE WIDTH MODULATOR FOR DC-DC VOLTAGE CONVERTER	United States	7206343	17-Apr- 2007	Granted
INTEGRATED POTS/DSL LINE DRIVER WITH FLOATING SUPPLY VOLTAGE	United States	6931108	16-Aug- 2005	Granted
ELECTRONIC DEVICE INCLUDING MULTIPHASE SWITCHING REGULATOR AND RELATED METHODS	United States	6791304	14-Sep- 2004	Granted
MARGINING PIN INTERFACE AND CONTROL CIRCUIT	United States	6798260	28-Sep- 2004	Granted
MARGINING PIN INTERFACE CIRCUIT	United States	6788229	07-Sep- 2004	Granted
ABSOLUTE VALUE CIRCUIT	United States	6724233	20-Apr- 2004	Granted
HIGH BANDWIDTH FEED-FORWARD OSCILLATOR	United States	6930520	16-Aug- 2005	Granted
SYNCHRONIZATION OF MULTIPHASE SYNTHETIC RIPPLE VOLTAGE REGULATOR	United States	6922044	26-Jul-2005	Granted
SYNCHRONIZATION OF MULTIPHASE SYNTHETIC RIPPLE VOLTAGE REGULATOR	United States	7019502	28-Mar- 2006	Granted
MULTIPHASE CONVERTER CONTROLLER USING SINGLE GAIN RESISTOR	United States	6977489	20-Dec- 2005	Granted
PWM-BASED DC-DC CONVERTER WITH ASSURED DEAD TIME CONTROL EXHIBITING NO SHOTT-THROUGH CURRENT AND INDEPENDENT OF TYPE OF FET USED	United States	6940262	06-Sep- 2005	Granted
COMPENSATION SAMPLE AND HOLD	United States	6958596	25-Oct-	Granted

Title	Jurisdiction	Reg. No./ Serial No.	Filing Date	Status
FOR VOLTAGE REGULATOR AMPLIFIER			Reg. Date 2005	
MECHANISM FOR PROVIDING OVER-				
VOLTAGE PROTECTION DURING	United States	6873191	29-Mar- 2005	Granted
POWER UP OF DC-DC CONVERTER			2003	
MECHANISM FOR PROVIDING OVER- VOLTAGE PROTECTION DURING	United States	7518430	14-Apr-	Granted
POWER UP OF DC-DC CONVERTER	Officed States		2009	Grantea
SOFT START PRECHARGE CIRCUIT FOR	United States	6998829	14-Feb-	Granted
DC POWER SUPPLY	Officed States	0998829	2006	Granted
LOW POWER, AREA-EFFICIENT CIRCUIT TO PROVIDE CLOCK	United States	6929920	07-Dec-	Granted
SYNCHRONIZATION	Officed States	6828830	2004	Granted
TIME DIVISION MULTIPLEXED, PILOTED				
CURRENT MONITORING IN A				
SWITCHED MODE DC-DC VOLTAGE	United States	6906536	14-Jun-	Granted
CONVERTER AND PHASE CURRENT MEASUREMENT CALIBRATION FOR A			2005	
MULTIPHASE CONVERTER				
LINE MODELING TOOL	United States	7110933	19-Sep-	Granted
		7110333	2006	
OPTICAL PICK-UP UNITS AND LASER DRIVERS WITH INCREASED	United States	7317674	08-Jan-2008	Granted
FUNCTIONALITY		752757	00 3411 2000	J. 1
ACTIVE TRANSIENT RESPONSE WITH A	United States	6903914	07-Jun-	Granted
LOW INDUCTOR		0300311	2005	
TECHNIQUE FOR MEASURING TEMPERATURE AND CURRENT VIA A			20-Sep-	
MOSFET OF A SYNCHRONOUS BUCK	United States	6946897	2005	Granted
VOLTAGE CONVERTER				
PARTICULATE REMOVAL FROM AN	United States	7097714	29-Aug-	Granted
ELECTROSTATIC CHUCK DC-TO-DC POWER REGULATOR			2006	
HAVING NON-LINEAR LOAD LINE AND			07-Feb-	
AUTOMATIC LEAKAGE CURRENT	United States	6995549	2006	Granted
OFFSET ADJUSTMENT				
BACKSIDE FAILURE ANALYSIS OF	United States	7063987	20-Jun-	Granted
INTEGRATED CIRCUITS AC-DC ADAPTER INTERFACE AND			2006	
BATTERY CHARGER HAVING HIGH			12.4	
SPEED BATTERY CHARGER CURRENT	United States	7199558	13-Apr- 2007	Granted
FOLDBACK WHEN ADAPTER CURRENT			2007	
DEMAND EXCEEDS PRESCRIBED LIMIT ACTIVE AREA BONDING COMPATIBLE			28-Feb-	
HIGH CURRENT STRUCTURES	United States	7005369	28-Feb-	Granted

Title	Jurisdiction	Reg. No./ Serial No.	Filing Date / Reg. Date	Status
ACTIVE AREA BONDING COMPATIBLE HIGH CURRENT STRUCTURES	United States	7224074	29-May- 2007	Granted
MULTIPLE CHANNEL PROGRAMMABLE GAMMA CORRECTION VOLTAGE GENERATOR	United States	7446747	04-Nov- 2008	Granted
ASSYMETRICAL MULTIPHASE DC-DC POWER CONVERTER	United States	6995548	07-Feb- 2006	Granted
MULTIPLEXED HIGH VOLTAGE DC-AC DRIVER	United States	6911790	28-Jun- 2005	Granted
CONTROLLER FOR FET PASS DEVICE	United States	6919758	19-Jul-2005	Granted
CASCADABLE CURRENT-MODE REGULATOR	United States	7061215	13-Jun- 2006	Granted
OUTPUT CURRENT SHARING	United States	7301317	27-Nov- 2007	Granted
PROGRAMMABLE BANDWIDTH AND FREQUENCY SLEWING FOR PHASE-LOCK LOOP	United States	6998890	14-Feb- 2006	Granted
CURRENT LIMITING CIRCUIT WITH RAPID RESPONSE FEEDBACK LOOP	United States	7005924	28-Feb- 2006	Granted
SYSTEM AND METHOD FOR DECAPSULATING AN ENCAPSULATED OBJECT	United States	7326305	05-Feb- 2008	Granted
INDUCTOR CURRENT SENSING SCHEME FOR PWM REGULATOR	United States	7106035	12-Sep- 2006	Granted
CLOCKED, CASCADING, CURRENT- MODE REGULATOR WITH HIGH NOISE IMMUNITY AND ARBITRARY PHASE COUNT	United States	7002325	21-Feb- 2006	Granted
STARTUP CIRCUIT FOR A DC-DC CONVERTER	United States	7038514	02-May- 2006	Granted
MULTI-CHANNEL DRIVER INTERFACE CIRCUIT FOR INCREASING PHASE COUNT IN A MULTI-PHASE DC-DC CONVERTER	United States	7026798	11-Apr- 2006	Granted
TRACKING SOFT START CIRCUIT FOR GENERATING A PLURALITY OF SOFT START VOLTAGES WHERE ALL SOFT START VOLTAGES ARE PREVENTED UNTIL ALL HAVE BEEN BROUGHT TO THE SAME PRESCRIBED STATE OF OPERATION	United States	7075804	11-Jul-2006	Granted
HIGH VOLTAGE DIFFERENTIAL AMPLIFIER USING LOW VOLTAGE DEVICES	United States	6965266	15-Nov- 2005	Granted

Title	Jurisdiction	Reg. No./ Serial No.	Filing Date	Status
		othan w.	Reg. Date	
METHOD OF CONTROLLING MULTIPLE	United States	7250472	21-Aug-	Granted
PARALLEL CONVERSION PATHS	Officed States	7259473	2007	Granted
METHOD AND STRUCTURE FOR NON-		7098103	20 4	
SINGLE-POLYCRYSTALLINE CAPACITOR	United States	7098103	29-Aug-	Granted
IN AN INTEGRATED CIRCUIT			2006	
SYSTEM AND METHOD OF DETECTING				
PHASE BODY DIODE USING A	United States	7021175	18-Apr-	Crontod
COMPARATOR IN A SYNCHRONOUS	United States	7031175	2006	Granted
RECTIFIED FET DRIVER				
MULTIPHASE DC-DC CONVERTER WITH	Marita al Chata a	7004612	01-Aug-	Curutad
REDUCED RIPPLE	United States	7084613	2006	Granted
TRANSCONDUCTANCE AMPLIFIER				
WITH MULTI-EMITTER STRUCTURE		7045757	21-Mar-	6
FOR CURRENT BALANCE IN MULTI-	United States	7015757	2006	Granted
PHASE SYNTHETIC RIPPLE REGULATOR				
DDECKION MAND CINUM C CIDCUITDY	Marina di Cuana	6075463	13-Dec-	Constant
PRECISION MARGINING CIRCUITRY	United States	6975163	2005	Granted
LINEAR PREPIONE CONTROLLER		7000400	02-May-	
LINEAR PREDICTIVE CONTROLLER	United States	7038432	2006	Granted
RADIATION HARDENED BIPOLAR		700004	18-Apr-	6
JUNCTION TRANSISTOR	United States	7029981	2006	Granted
RADIATION HARDENED BIPOLAR		7187056	06-Mar-	
JUNCTION TRANSISTOR	United States		2007	Granted
METHOD OF MAKING BIPOLAR				
TRANSISTORS AND RESULTING	United States	7067383	27-Jun-	Granted
PRODUCT			2006	
METHOD OF MAKING BIPOLAR		7227042		
TRANSISTORS AND RESULTING	United States	7327012	05-Feb-	Granted
PRODUCT			2008	
DIGITALLY CONFIGURABLE			10-Jun-	
MULTIPLEXER/DE-MULTIPLEXER	United States	7386015	2008	Granted
ON-CHIP STRUCTURE FOR				
ELECTROSTATIC DISCHARGE (ESD)	United States	7202114	10-Apr-	Granted
PROTECTION			2007	
ON-CHIP STRUCTURE FOR		7604004	10.5	
ELECTROSTATIC DISCHARGE (ESD)	United States	7601991	13-Oct-	Granted
PROTECTION			2009	
PROGRAMMABLE BANDWIDTH			0.1.1	
DURING START-UP FOR PHASE-LOCK	United States	7023250	04-Apr-	Granted
LOOP			2006	
HIGH VOLTAGE GATE DRIVER USING A			00.1	
LOW VOLTAGE MULTI-LEVEL CURRENT	United States	7088151	08-Aug-	Granted
PULSE TRANSLATOR			2006	Grantea
STARTUP CIRCUIT FOR CONVERTER	United States	7034586	25-Apr-	Granted

Title	Jurisdiction	Reg. No./ Serial No.	Filing Date / Reg. Date	Status
WITH PRE-BIASED LOAD			2006	
RAIL-RAIL CURRENT SENSE AMPLIFIER	United States	7102335	05-Sep- 2006	Granted
HIGH VOLTAGE FLOATING CURRENT SENSE AMPLIFIER	United States	7015728	21-Mar- 2006	Granted
SYSTEM AND METHOD FOR AUTHENTICATION	United States	7512794	31-Mar- 2009	Granted
HIGH LIGHT LOAD EFFICIENCY SYNCHRONOUS BUCK REGULATOR WITH PULSE SKIPPING CONTROL	United States	7245113	17-Jul-2007	Granted
DROOP AMPLIFIER CIRCUIT	United States	7064528	20-Jun- 2006	Granted
BATTERY AUTHENTICATION SYSTEM	United States	7596699	29-Sep- 2009	Granted
COMMON-MODE CURRENT FEEDBACK AMPLIFIERS	United States	7132859	07-Nov- 2006	Granted
CONFIGURABLE INTERNAL/EXTERNAL LINEAR VOLTAGE REGULATOR	United States	7612546	03-Nov- 2009	Granted
APPARATUS FOR OFFSET CORRECTING HIGH-SIDE AND LOW-SIDE SINKING/SOURCING OVER-CURRENT PROTECTION	United States	7227731	05-Jun- 2007	Granted
FREQUENCY PROGRAMMABLE FEED- FORWARD OSCILLATOR AND TRIANGLE WAVE GENERATOR	United States	7256623	14-Aug- 2007	Granted
STARTUP VIA FB PIN REGULATION	United States	7088600	08-Aug- 2006	Granted
ENHANCED PLASMA ETCH PROCESS	United States	7181306	20-Feb- 2007	Granted
SPEECH AMPLIFIER-RESIDENT MECHANISM FOR CONTROLLABLY SUPPLYING POWER TO A LINE CIRCUIT	United States	7103178	05-Sep- 2006	Granted
CMOS-CONFIGURED TRANSCONDUCTANCE AMPLIFIER CIRCUIT	United States	7075370	11-Jul-2006	Granted
ENABLE AND DISABLE OF DIODE- EMULATION IN A DC/DC CONVERTER	United States	7205751	17-May- 2007	Granted
TWO-WIRE CHIP-TO-CHIP INTERFACE	United States	7430259	30-Sep- 2008	Granted
SYSTEM AND METHOD FOR MONITORING A CHARGING PERIOD IN A BATTERY CHARGER	United States	7205747	17-Apr- 2007	Granted
CONTROLLER AND DRIVER ARCHITECTURE FOR DOUBLE- ENDED	United States	7075247	11-Jul-2006	Granted

Title	Jurisdiction	Reg. No./ Serial No.	Filing Date	Status
		9 01101 1101	Reg. Date	
CIRCUITRY FOR POWERING COLD				
CATHODE FLUORESCENT LAMPS				
STAGGERING SWITCHING SIGNALS				
FOR MULTIPLE COLD CATHODS		7444044	28-Nov-	
FLUORESCENT LAMP BACKLIGHTING	United States	7141941	2006	Granted
SYSTEM TO REDUCE ELECTRONAGNETIC INTERFERENCE				
INTEGRATED BATTERY CHARGER AND			10-Feb-	
SYSTEM REGULATOR CIRCUIT	United States	7489109	2009	Granted
APPARATUS AND METHOD FOR			2003	
SLIDING-MODE CONTROL IN A			16-Oct-	
MULTIPHASE SWITCHING POWER	United States	7282896	2007	Granted
SUPPLY			2007	
APPARATUS AND METHOD FOR FIXED-				
FREQUENCY CONTROL IN A	United States	7091708	15-Aug-	Granted
SWITCHING POWER SUPPLY			2006	
APPARATUS AND METHOD FOR FIXED-			12 1	
FREQUENCY CONTROL IN A	United States	7230407	12-Jun- 2007	Granted
SWITCHING POWER SUPPLY			2007	
APPARATUS AND METHOD FOR				
TRANSIENT CONTROL IN A	United States	7282897	16-Oct-	Granted
MULTIPHASE SWITCHING POWER		, 20203,	2007	J. 41.135
SUPPLY				
METHOD FOR FORMING PLASMA			29-May-	
ENHANCED DEPOSITED, FULLY	United States	7223706	2007	Granted
OXIDIZED PSG FILM				
POWER SUPPLY CIRCUIT CONTAINING			10.845	
MULTIPLE DC-DC CONVERTERS	United States	7345378	18-Mar-	Granted
HAVING PROGRAMMABLE OUTPUT CURRENT CAPABILITIES			2008	
POWER SUPPLY CIRCUIT CONTAINING				
MULTIPLE DC-DC CONVERTERS			03-Nov-	
HAVING PROGRAMMABLE OUTPUT	United States	7612465	2009	Granted
CURRENT CAPABILITIES				
TEMPERATURE COMPENSATION FOR		7400000	30-Sep-	
FLOATING GATE CIRCUITS	United States	7429888	2008	Granted
APPARATUS AND METHOD FOR STATE-				
VARIABLE SYNTHESIS IN A SWITCHING	United States	7248024	24-Jul-2007	Granted
POWER SUPPLY				
FAULT SIGNATURE SYSTEM FOR			02-Sep-	
POWER MANAGEMENT INTEGRATED	United States	7420791	2008	Granted
CIRCUITS			2000	
OVER VOLTAGE AND OVER CURRENT	United States	7394223	01-Jul-2008	Granted
PROTECTION INTEGRATED CIRCUIT		, 55 1225	1 341 2000	2141104

Title	Jurisdiction	Reg. No./ Serial No.	Filing Date / Reg. Date	Status
METHOD TO PREVENT BOOSTING SYSTEM BUS WHEN CHARGING THE BATTERY	United States	7235955	26-Jun- 2007	Granted
PHASE SHIFT MODULATION-BASED CONTROL OF AMPLITUDE OF AC VOLTAGE OUTPUT PRODUCED BY DOUBLE-ENDED DC-AC CONVERTER CIRCUITRY FOR POWERING HIGH VOLTAGE LOAD SUCH AS COLD CATHODE FLUORESCENT LAMP	United States	7368880	06-May- 2008	Granted
HIGH ACCURACY DIGITAL TO ANALOG CONVERTER USING A PARALLEL P/N TYPE R-2R RESISTOR LADDER	United States	6975261	13-Dec- 2005	Granted
CURRENT AVERAGING CIRCUIT FOR A PWM POWER CONVERTER	United States	7196503	27-Mar- 2007	Granted
ARCHITECTURE FOR ACHIEVING RESONANT CIRCUIT SYNCHRONIZATION OF MULTIPLE ZERO VOLTAGE SWITCHED PUSH-PULL DC-AC CONVERTERS	United States	7054176	30-May- 2006	Granted
PRECISION FLOATING GATE REFERENCE TEMPERATURE COEFFICIENT COMPENSATION METHOD	United States	7221209	22-May- 2007	Granted
ACTIVE POWER SUPPLY REJECTION USING NEGATIVE CURRENT GENERATION LOOP FEEDBACK	United States	7239195	03-Jul-2007	Granted
TRUE DIFFERENTIAL MICROPHONE AMPLIFIER	United States	7259627	21-Aug- 2007	Granted
PHASE-ERROR CORRECTION CIRCUIT FOR A HIGH SPEED FREQUENCY SYNTHESIZER	United States	7205798	17-Apr- 2007	Granted
PHASE-ERROR CORRECTION CIRCUIT FOR A HIGH SPEED FREQUENCY SYNTHESIZER	United States	7498852	03-Mar- 2009	Granted
ON-CHIP EE-PROM PROGRAMMING WAVEFORM GENERATION	United States	7158412	02-Jan-2007	Granted
ON-CHIP EE-PROM PROGRAMMING WAVEFORM GENERATION	United States	7502264	10-Mar- 2009	Granted
DIGITALLY SYNCHRONIZED INTEGRATOR FOR NOISE REJECTION IN SYSTEM USING PWM DIMMING SIGNALS TO CONTROL BRIGHTNESS OF	United States	7528818	05-May- 2009	Granted

Title	Jurisdiction	Reg. No./ Serial No.	Filing Date / Reg. Date	Status
LIGHT SOURCE				
GROUND SKIMMING OUTPUT STAGE	United States	7459978	02-Dec- 2008	Granted
FLEXIBLE MULTI-PULSE GENERATOR	United States	7492686	17-Feb- 2009	Granted
SEMI-CLOCKLESS, CASCADED, CURRENT-MODE POWER REGULATOR HAVING HIGH NOISE IMMUNITY AND ARBITRARY PHASE COUNT	United States	7215102	08-May- 2007	Granted
SYSTEMS AND METHODS FOR REDUCING HARMONICS PRODUCED BY OSCILLATORS	United States	7386023	10-Jun- 2008	Granted
FLOATING GATE ANALOG VOLTAGE LEVEL SHIFT CIRCUIT AND METHOD FOR PRODUCING A VOLTAGE REFERENCE THAT OPERATES ON A LOW SUPPLY VOLTAGE	United States	7113017	26-Sep- 2006	Granted
FLOATING GATE ANALOG VOLTAGE LEVEL SHIFT CIRCUIT AND METHOD FOR PRODUCING A VOLTAGE REFERENCE THAT OPERATES ON A LOW SUPPLY VOLTAGE	United States	7345522	18-Mar- 2008	Granted
FLOATING GATE ANALOG VOLTAGE LEVEL SHIFT CIRCUIT AND METHOD FOR PRODUCING A VOLTAGE REFERENCE THAT OPERATES ON A LOW SUPPLY VOLTAGE	United States	7345523	18-Mar- 2008	Granted
ACTIVATING A PHASE IN A MULTIPHASE DC/DC CONVERTER WITHOUT DISTURBING THE OUTPUT VOLTAGE	United States	7023182	04-Apr- 2006	Granted
REMOVING A PHASE IN A MULTIPHASE DC/DC CONVERTER WITHOUT DISTURBING THE OUTPUT VOLTAGE	United States	7161332	09-Jan-2007	Granted
CURRENT FEEDBACK AMPLIFIERS	United States	7132860	07-Nov- 2006	Granted
CURRENT FEEDBACK AMPLIFIERS	United States	7250791	31-Jul-2007	Granted
CURRENT FEEDBACK AMPLIFIERS	United States	7358777	15-Apr- 2008	Granted
CURRENT FEEDBACK AMPLIFIERS WITH SEPARATE COMMON-MODE AND DIFFERENTIAL MODE-INPUTS	United States	7116132	03-Oct- 2006	Granted
VOLTAGE TRACKING REFERENCE FOR A POWER REGULATOR	United States	7453251	18-Nov- 2008	Granted

Title	Jurisdiction	Reg. No./ Serial No.	Filing Date / Reg. Date	Status
CONSTANT FREQUENCY DUTY CYCLE INDEPENDENT SYNTHETIC RIPPLE REGULATOR	United States	7145317	05-Dec- 2006	Granted
BONDWIRE UTILIZED FOR COULOMB COUNTING AND SAFETY CIRCUITS	United States	7332814	19-Feb- 2008	Granted
BONDWIRE UTILIZED FOR COULOMB COUNTING AND SAFETY CIRCUITS	United States	7550806	23-Jun- 2009	Granted
INTEGRATED PROCESS FOR THIN FILM RESISTORS WITH SILICIDES	United States	7341958	11-Mar- 2008	Granted
INTEGRATED PROCESS FOR THIN FILM RESISTORS WITH SILICIDES	United States	7662692	16-Feb- 2010	Granted
ELECTROSTATIC DISCHARGE PROTECTION DEVICE FOR CMOS CIRCUITS AND FOR APPLICATIONS WITH INPUT/OUTPUT VOLTAGE OUTSIDE THE RANGE OF THE CORE CIRCUIT POWER SUPPLY	United States	7285828	23-Oct- 2007	Granted
ELECTROSTATIC DISCHARGE PROTECTION DEVICE FOR CMOS CIRCUITS AND FOR APPLICATIONS WITH INPUT/OUTPUT VOLTAGE OUTSIDE THE RANGE OF THE CORE CIRCUIT POWER SUPPLY	United States	7479414	20-Jan-2009	Granted
DC-AC CONVERTER HAVING PHASE- MODULATED, DOUBLE-ENDED, HALF- BRIDGE TOPOLOGY FOR POWERING HIGH VOLTAGE LOAD SUCH AS COLD CATHODE FLUORESCENT LAMP	United States	7560872	14-Jul-2009	Granted
IMPROVED LINEAR REGULATOR	United States	7196501	27-Mar- 2007	Granted
REFERENCE VOLTAGE GENERATOR FOR USE IN DISPLAY APPLICATIONS	United States	7193551	20-Mar- 2007	Granted
REFERENCE VOLTAGE GENERATOR FOR USE IN DISPLAY APPLICATIONS	United States	7385544	10-Jun- 2008	Granted
DC-AC CONVERTER HAVING PHASE- MODULATED, DOUBLE-ENDED, FULL- BRIDGE TOPOLOGY FOR POWERING HIGH VOLTAGE LOAD SUCH AS COLD CATHODE FLUORESCENT LAMP	United States	7564193	21-Jul-2009	Granted
PWM CONTROLLER WITH DUAL-EDGE MODULATION USING DUAL RAMPS	United States	7453250	18-Nov- 2008	Granted
PFM-PWM DC-DC CONVERTER PROVIDING DC OFFSET CORRECTION TO PWM ERROR AMPLIFIER AND	United States	7382114	03-Jun- 2008	Granted

		Reg. No./	Filing Date	
Title	Jurisdiction	Serial No.	Reg. Date	Status
EQUALIZING REGULATED VOLTAGE			ines. Dan	
CONDITIONS WHEN TRANSITIONING				
BETWEEN PFM AND PWM MODES				
BIDIRECTIONAL BUFFERED INTERFACE	United States	7492826	17-Feb-	Granted
FOR CROSSPOINT SWITCH	Officed States	7432020	2009	Grantea
BIPOLAR STRUCTURES HAVING				
IMPROVED BVCEO/Rcs TRADE OFF	United States	7285469	23-Oct-	Granted
MADE WITH DEPLETABLE COLLECTOR			2007	
COLUMNS BIPOLAR STRUCTURES HAVING				
IMPROVED BVCEO/Rcs TRADE OFF				
MADE WITH DEPLETABLE COLLECTOR	United States	7473983	06-Jan-2009	Granted
COLUMNS				
SELF-CALIBRATING TIMING CIRCUITS			09-Sep-	
FOR USE IN A SYNC SEPARATOR	United States	7423694	2008	Granted
MODIFICATION CONSTANT-ON				
CONTROL SCHEME ON ZERO ESR	United States	7439721	21-Oct-	Granted
OUTPUT CAPACITOR OPERATION	Officed States	7433721	2008	Grantea
CONDITION				
PMOS DEPLETABLE DRAIN EXTENSION			16-Jun-	
MADE FROM NMOS DUAL DEPLETABLE	United States	7547592	2009	Granted
DRAIN EXTENSIONS			10 1	
DEPLETABLE CATHODE LOW CHARGE STORAGE DIODE	United States	7385246	10-Jun- 2008	Granted
DEVICES WITH ADJUSTABLE DUAL-			2008	
POLARITY TRIGGER AND HOLDING-				
VOLTAGE/CURRENT FOR HIGH LEVEL				
OF ELECTROSTATIC DISCHARGE	United States	7566914	28-Jul-2009	Granted
PROTECTION IN SUB-MICRON MIXED				
SIGNAL CMOS/BICMOS INTEGRATED				
CIRCUITS				
GATE DRIVER TOPOLOGY FOR	United States	7615940	10-Nov-	Granted
MAXIMUM LOAD EFFICIENCY	Officed States	7013340	2009	Grantea
CIRCUIT FOR MULTIPLEXING DIGITAL				
AND ANALOG INFORMATION VIA	United States	7504816	17-Mar-	Granted
SINGLE PIN OF DRIVER FOR SWITCHED			2009	
MOSFETS OF DC-DC CONVERTER			06 Maii	
VOLTAGE REGULATOR WITH SYNCHRONIZED PHASE SHIFT	United States	7368959	06-May- 2008	Granted
CIRCUIT FOR GENERATING PRECISION			2000	
SOFT-START FREQUENCY FOR EITHER			07-Apr-	_
VALUE OF ADDRESS BIT APPLIED TO	United States	7514992	2009	Granted
EXTERNAL RESET PIN				
COMPENSATION OFFSET ADJUSTMENT	United States	7489121	10-Feb-	Granted

Title	Jurisdiction	Reg. No./ Serial No.	Filing Date / Reg. Date	Status
SCHEME FOR FAST REFERENCE VOLTAGE TRANSITIONING			2009	
ADAPTIVE PWM PULSE POSITION FOR FAST TRANSIENT RESPONSE	United States	7453246	18-Nov- 2008	Granted
USAGE OF A BUILDCODE TO SPECIFY LAYOUT CHARACTERISTICS	United States	7461366	02-Dec- 2008	Granted
SLOW TAIL COMPENSATION	United States	7180048	20-Feb- 2007	Granted
SLOW TAIL COMPENSATION	United States	7423252	09-Sep- 2008	Granted
METHOD AND APPLICATION FOR SWITCHING AUDIO AND DATA SIGNALS THROUGH A SINGLE TERMINAL	United States	7482853	27-Jan-2009	Granted
MULTI-PHASE DC-DC CONVERTER USING AUXILIARY RESISTOR NETWORK TO FEED BACK MULTIPLE SINGLE- ENDED SENSED CURRENTS TO SUPERVISORY CONTROLLER FOR BALANCED CURRENT-SHARING AMONG PLURAL CHANNELS	United States	7339361	04-Mar- 2008	Granted
MULTI-PHASE DC-DC CONVERTER USING AUXILIARY RESISTOR NETWORK TO FEED BACK MULTIPLE SINGLE- ENDED SENSED CURRENTS TO SUPERVISORY CONTROLLER FOR BALANCED CURRENT-SHARING AMONG PLURAL CHANNELS	United States	7589511	15-Sep- 2009	Granted
AMPLIFIER WITH IMPROVED COMPENSATION TOPOLOGY AND RELATED AMPLIFIER CIRCUIT, SYSTEM, AND METHOD	United States	7528655	05-May- 2009	Granted
SWITCHED GATE CURRENT DRIVER	United States	7609734	27-Oct- 2009	Granted
HIGH VOLTAGE COMPARATOR USING SLIDING INPUT LOW VOLTAGE DEVICES	United States	7528634	05-May- 2009	Granted
A MULTIPLE TIME PROGRAMMABLE (MTP) PMOS FLOATING-GATE-BASED NON-VOLATILE ELEMENT FOR A GENERAL-PURPOSE CMOS TECHNOLOGY WITH THICK GATE OXIDE	United States	7542342	02-Jun- 2009	Granted
TWO PIN-BASED SENSING OF REMOTE	United States	7345465	18-Mar-	Granted

Title	Jurisdiction	Reg. No./ Serial No.	Filing Date	Status
		Seriai No.	Reg. Date	
DC SUPPLY VOLTAGE DIFFERENTIAL			2008	
USING PRECISION OPERATIONAL				
AMPLIFIER AND DIFFUSED RESISTORS				
TWO PIN-BASED SENSING OF REMOTE				
DC SUPPLY VOLTAGE DIFFERENTIAL	United States	7541797	02-Jun-	Granted
USING PRECISION OPERATIONAL		73.12737	2009	J. 1
AMPLIFIER AND DIFFUSED RESISTORS				
AUXILIARY TURN-ON MECHANISM FOR				
REDUCING CONDUCTION LOSS IN	11 2 16 1	7442446	28-Oct-	6
BODY-DIODE OF LOW SIDE MOSFET OF	United States	7443146	2008	Granted
COUPLED-INDUCTOR DC-DC CONVERTER				
VOLTAGE REGULATOR HAVING			10 May	
CURRENT CANCELING COMPENSATION	United States	7535211	19-May- 2009	Granted
PHOTODIODE FOR MULTIPLE			03-Feb-	
WAVELENGTH OPERATION	United States	7485486	2009	Granted
A CMOS TEMPERATURE-TO-DIGITAL			2009	
CONVERTER WITH DIGITAL	United States	7686508	30-Mar-	Granted
CORRECTION	Officed States	7080308	2010	Granted
MODULATOR CIRCUIT WITH LINEAR			30-Dec-	
AND NON-LINEAR CONTROL	United States	7471133	2008	Granted
			31-Mar-	
SELF PROTECTING OUTPUT STAGE	United States	7511931	2009	Granted
NECATIVE CARACITANCE SVAITUESIS	11 2 16 1	7600444	27-Oct-	C
NEGATIVE CAPACITANCE SYNTHESIS	United States	7609111	2009	Granted
ADAPTIVE FIRING ORDER CONTROL			22 Con	
FOR DYNAMIC CURRENT BALANCE OF	United States	7592787	23-Sep- 2009	Granted
MULTIPHASE VOLTAGE REGULATORS			2009	
USE OF SERIAL CONTROLLER TO	United States	7546397	09-Jun-	Granted
PROGRAM A LDD, PMIC AND PDIC	Officed States	7540597	2009	Granted
AUTOMATIC CIRCUIT AND METHOD				
FOR TEMPERATURE COMPENSATION			 13-May-	
OF OSCILLATOR FREQUENCY	United States	7371005	2008	Granted
VARIATION OVER TEMPERATURE FOR			2000	
A REAL TIME CLOCK CHIP				
METHOD FOR USING DIGITAL PLL IN A	United States	7592846	22-Sep-	Granted
VOLTAGE REGULATOR		7.0020.0	2009	
SWITCHING FREQUENCY CONTROL OF			03-Nov-	
SWITCHED CAPACITOR CIRCUIT USING	United States	7612603	2009	Granted
OUTPUT VOLTAGE DROOP				
CONFIGURABLE PHOTO DETECTOR	United States	7635836	22-Dec-	Granted
CIRCUIT			2009	
DYNAMICALLY CONFIGURABLE	United States	7663087	16-Feb-	Granted
MULTIPLE WAVELENGTH			2010	

		Reg. No./	Filing Date	
Title	Jurisdiction	Serial No.	Reg. Date	Status
PHOTODETECTOR ARRAY FOR OPTICAL			Keg. Date	
STORAGE APPLICATIONS				
FLASH MEMORY ARRAY OF FLOATING			20 Mar	
GATE-BASED NON-VOLATILE MEMORY	United States	7688627	30-Mar- 2010	Granted
CELLS			2010	
INPUT SAMPLING NETWORK THAT			02-Mar-	
AVOIDS UNDESIRED TRANSIENT	United States	7671776	2010	Granted
VOLTAGES				
RF-COUPLED DIGITAL ISOLATOR	United States	7468547	23-Dec-	Granted
			2008	
SLEW-ENHANCED INPUT STAGES AND	United States	7557659	07-Jul-2009	Granted
AMPLIFIERS			46.5.1	
TUNABLE VOLTAGE ISOLATION	United States	7663190	16-Feb-	Granted
GROUND TO GROUND ESD CLAMP			2010	
BI-DIRECTIONAL BUFFER WITH LEVEL	United States	7692450	06-Apr-	Granted
SHIFTING BI-DIRECTIONAL BUFFER AND			2010	
METHOD FOR BI-DIRECTIONAL			29-Dec-	
BUFFERING THAT REDUCE GLITCHES	United States	7639045	29-Dec- 2009	Granted
DUE TO FEEDBACK			2009	
HIGH VOLTAGE LATERAL MOS				
STRUCTURE WITH DEPLETED TOP	United States	5264719	23-Nov-	Granted
GATE REGION	Officea States	3204713	1993	Granica
PROCESS FOR FORMING TWIN WELL			21-Sep-	
CMOS INTEGRATED CIRCUITS	United States	5247199	1993	Granted
HIGH FREQUENCY ANALOG				
TRANSISTORS, METHOD OF		F660007	16-Sep- 1997	6
FABRICATION AND CIRCUIT	United States	5668397		Granted
IMPLEMENTATION				
HIGH FREQUENCY ANALOG				
TRANSISTORS, METHOD OF	United States	5807780	15-Sep-	Granted
FABRICATION AND CIRCUIT	Officed States	3807780	1998	Granted
IMPLEMENTATION				
HIGH FREQUENCY ANALOG				
TRANSISTORS, METHOD OF	United States	5892264	06-Apr-	Granted
FABRICATION AND CIRCUIT	Officed States	3032204	1999	Grantea
IMPLEMENTATION				
SELF-CALIBRATING TIMING CIRCUITS FOR	United States	7633552	24-Nov-2009	Granted
USE IN A SYNC SEPARATOR NOISE CANCELLATION FOR GPS ANTENNA				
MODULE	United States	12/544860	20-Aug-2009	Pending
SYNTHETIC RIPPLE REGULATOR	United States	12/255346	21-Oct-2008	Pending
REFERENCE VOLTAGE GENERATOR FOR		-		
USE IN DISPLAY APPLICATIONS	United States	11/344899	01-Feb-2006	Pending
AUXILIARY TURN-ON MECHANISM FOR	United States	12/651985	04-Jan-2010	Pending

mu.	T . P	Reg. No./	Filing Date	C. J
Title	Jurisdiction	Serial No.	Reg. Date	Status
REDUCING CONDUCTION LOSS IN BODY-			5	
DIODE OF LOW SIDE MOSFET OF				
COUPLED-INDUCTOR DC-DC CONVERTER				
SYSTEM AND METHOD FOR BOOST-BUCK	11 1 16 1	12/611660	02.11 2000	D 11:1 1
TRANSITION	United States	12/611668	03-Nov-2009	Published
UNIQUE CABLE EQUALIZATION	United States	12/592650	20 Oct 2000	Dandina
ARCHITECTURE	United States	12/582659	20-Oct-2009	Pending
ADAPTIVE PWM PULSE POSITION FOR	United States	12/273441	18-Nov-2008	Published
FAST TRANSIENT RESPONSE	Officed States	12/2/3441	10 1107 2000	1 ublished
SOLAR CELL WITH INTEGRATED SWITCH	United States	12/470351	08-Jan-2010	Pending
AND CONNECTION METHOD		,		
DYNAMICALLY ADJUSTABLE LOW NOISE,		10/71070		
LOW POWER INSTRUMENTATION	United States	12/719792	08-Mar-2010	Pending
AMPLIFIER				
ACTIVE AREA BONDING COMPATIBLE HIGH	United States	11/737392	19-Apr-2007	Published
CURRENT STRUCTURES				
ACTIVE AREA BONDING COMPATIBLE HIGH CURRENT STRUCTURES	United States	11/737395	19-Apr-2007	Pending
GROUND SKIMMING OUTPUT STAGE	United States	12/325448	01-Dec-2008	Published
CURRENT FEEDBACK AMPLIFIERS	United States	12/037586	26-Feb-2008	Pending
INTEGRATED PROCESS FOR THIN FILM			20-1 60-2008	rending
RESISTORS WITH SILICIDES	United States	12/689376	19-Jan-2010	Pending
REFERENCE VOLTAGE GENERATOR FOR				
USE IN DISPLAY APPLICATIONS	United States	11/540698	29-Sep-2006	Published
MODIFICATION CONSTANT-ON CONTROL				
SCHEME ON ZERO ESR OUTPUT	United States	12/254525	20-Oct-2008	Published
CAPACITOR OPERATION CONDITION				
DEPLETABLE CATHODE LOW CHARGE	United States	12/115760	06-May-2008	Pending
STORAGE DIODE	Officed States	12/113/00	00-1VIAy-2008	rending
CIRCUIT FOR MULTIPLEXING DIGITAL AND				
ANALOG INFORMATION VIA SINGLE PIN	United States	12/402302	11-Mar-2009	Published
OF DRIVER FOR SWITCHED MOSFETS OF	J	,		
DC-DC CONVERTER				
A MULTIPLE TIME PROGRAMMABLE (MTP)				
PMOS FLOATING-GATE-BASED NON- VOLATILE ELEMENT FOR A GENERAL-	United States	12/430007	24-Apr-2009	Pending
PURPOSE CMOS TECHNOLOGY WITH	United States	12/430007	24-Apr-2009	Pending
THICK GATE OXIDE				
DC-DC CONVERTERS HAVING IMPROVED				
CURRENT SENSING AND RELATED	United States	12/409239	23-Mar-2009	Published
METHODS		,		
METHOD OF TRICKLE CHARGING A				
BATTERY IN A NARROW RAIL	United States	12/423842	15-Apr-2009	Pending
ARCHITECTURE				
SYSTEM AND METHOD FOR	-			
PROGRAMMING AND CONTROLLING OVER	United States	12/564466	22-Sep-2009	Published
CURRENT TRIP POINT LIMITS IN VOLTAGE	Jimed States	12,304400	22 325 2003	, apribled
REGULATORS				

Title	Jurisdiction	Reg. No./ Serial No.	Filing Date / Reg. Date	Status
DYNAMICALLY CONFIGURABLE MULTIPLE			-	
WAVELENGTH PHOTODETECTOR ARRAY	United States	12/687084	13-Jan-2010	Pending
FOR OPTICAL STORAGE APPLICATIONS				-
RF-COUPLED DIGITAL ISOLATOR	United States	12/163256	27-Jun-2008	Published
NPN BASE FOR IMPROVED PERFORMANCE	United States	10/944234	17-Sep-2004	Published
SYSTEM AND METHOD FOR				
DECAPSULATING AN ENCAPSULATED	United States	11/875904	20-Oct-2007	Pending
OBJECT				
OVER VOLTAGE AND OVER CURRENT	United States	12/127283	28-May-2008	Published
PROTECTION INTEGRATED CIRCUIT	Officed States	12/12/265	20-101ay-2006	Published
DIGITALLY SYNCHRONIZED INTEGRATOR				
FOR NOISE REJECTION IN SYSTEM USING	United States	12/409238	23-Mar-2009	Published
PWM DIMMING SIGNALS TO CONTROL	Officed States	12,403230	25 Widi 2005	Tablistica
BRIGHTNESS OF LIGHT SOURCE				
PMOS DEPLETABLE DRAIN EXTENSION				
MADE FROM NMOS DUAL DEPLETABLE	United States	12/372172	17-Feb-2009	Pending
DRAIN EXTENSIONS				
DEVICES WITH ADJUSTABLE DUAL-				
POLARITY TRIGGER AND HOLDING-				
VOLTAGE/CURRENT FOR HIGH LEVEL OF	United States	12/420264	08-Apr-2009	Pending
ELECTROSTATIC DISCHARGE PROTECTION			·	
IN SUB-MICRON MIXED SIGNAL				
CMOS/BICMOS INTEGRATED CIRCUITS GATE DRIVER TOPOLOGY FOR MAXIMUM				
LOAD EFFICIENCY	United States	12/563468	21-Sep-2009	Published
NO-WARP LEAD FRAME	United States	12/712170	24-Feb-2010	Pending
IMPLEMENTING CIRCUIT WITH	Officed States	12//121/0	24-160-2010	rending
TRANSISTORS HAVING LOWER				
BREAKDOWN VOLTAGE THAN OPERATING	United States	11/876084	22-Oct-2007	Pending
VOLTAGE CIRCUIT				
PHOTODIODE FOR MULTIPLE		10/005111		- "
WAVELENGTH OPERATION	United States	12/365141	03-Feb-2009	Pending
A CMOS TEMPERATURE-TO-DIGITAL		40/50754	46.6 2000	B 11: 1
CONVERTER WITH DIGITAL CORRECTION	United States	12/560751	16-Sep-2009	Published
NEGATIVE CAPACITANCE SYNTHESIS	United States	12/475409	29-May-2009	Pending
LIGHT SENSORS WITH INFRARED	United States	11/950325	04-Dec-2007	Published
SUPPRESSION	Officed States	11/950525	04-Det-2007	Published
FLASH MEMORY ARRAY OF FLOATING				
GATE-BASED NON-VOLATILE MEMORY	United States	12/711520	24-Feb-2010	Pending
CELLS				
TUNABLE VOLTAGE ISOLATION GROUND	United States	12/687621	14-Jan-2010	Pending
TO GROUND ESD CLAMP				
INTEGRATED CIRCUIT RESISTOR TUNING	United States	10/740288	18-Dec-2003	Pending
PSEUDO-ASYNCHRONOUS ONE WIRE	United States	10/875763	24-Jun-2004	Published
BIDIRECTIONAL BUS INTERFACE		25,5,5,55	2.75., 2004	
PROGRAMMABLE HYSTERESIS	United States	10/917628	13-Aug-2004	Published
IMPROVEMENT		·	_	
APPARATUS AND METHOD OF EMPLOYING	United States	10/927755	27-Aug-2004	Published

Title	Jurisdiction	Reg. No./ Serial No.	Filing Date	Status
		Seriai No.	Reg. Date	
COMBINED SWITCHING AND PWM				
DIMMING SIGNALS TO CONTROL				
BRIGHTNESS OF COLD CATHODE				
FLUORESCENT LAMP USED TO BACKLIGHT				
LIQUID CRYSTAL DISPLAY				
CONSTANT-ON-TIME SWITCHING POWER				
SUPPLY WITH VIRTUAL RIPPLE FEEDBACK	United States	11/087323	22-Mar-2005	Published
AND RELATED SYSTEM AND METHOD				
SINGLE SUPPLY VIDEO LINE DRIVER	United States	11/204227	15-Aug-2005	Pending
UNIQUE SCHEME FOR DEFINING WRITE	United States	11/446056	02-Jun-2006	Published
STRATEGY OPERATION				
IMPROVED ESD STRUCTURE	United States	11/267175	07-Nov-2005	Pending
DAMPING OF PARASITIC RESONANCE	United States	11/394440	31-Mar-2006	Published
USING A RESISTIVE PARALLEL CONDUCTOR	Officed States	11,331110	31 Widi 2000	1 dollored
AUTOMATIC FREQUENCY COMPENSATION				
OF VIDEO SIGNALS TRANSMITTED ACROSS	United States	11/255360	21-Oct-2005	Published
CABLES				
NO-WARP LEAD FRAME	United States	11/453216	15-Jun-2006	Pending
BIDIRECTIONAL COMMUNICATION				
PROTOCOL BETWEEN A SERIALIZER AND A	United States	11/838064	14-Aug-2007	Pending
DESERIALIZER				
SPREAD SPECTRUM CLOCK GENERATOR	United States	11/838084	13-Aug-2007	Pending
AND METHOD		,		<u> </u>
DIFFERENTIAL DRIVER WITH COMMON-	United States	11/838069	13-Aug-2007	Pending
MODE VOLTAGE TRACKING AND METHOD			-	_
IMPLEMENTING CIRCUIT WITH				
TRANSISTORS HAVING LOWER	United States	11/624681	18-Jan-2007	Pending
BREAKDOWN VOLTAGE THAN OPERATING VOLTAGE CIRCUIT				
REDUCING POWER CONSUMPTION				
ASSOCIATED WITH HIGH BIAS CURRENTS				
IN SYSTEMS THAT DRIVE OR OTHERWISE	United States	11/609853	12-Dec-2006	Published
CONTROL DISPLAYS				
HYSTERETIC POWER-SUPPLY CONTROLLER				
WITH ADJUSTABLE SWITCHING				
FREQUENCY, AND RELATED POWER	United States	11/897681	31-Aug-2007	Published
SUPPLY, SYSTEM, AND METHOD				
HYBRID LASER DRIVERS THAT INCLUDE A				
DECODER	United States	11/749636	16-May-2007	Published
MULTI-LEVEL LVDS DATA TRANSMISSION				_
WITH EMBEDDED WORD CLOCK	United States	11/746610	09-May-2007	Pending
HIGH FREQUENCY CONNECTION-LESS		44/=	40	5
CHARGER	United States	11/736897	18-Apr-2007	Published
METHOD AND APPARATUS FOR SHIELDING				
TUNNELING CIRCUIT AND FLOATING GATE				
FOR INTEGRATION OF A FLOATING GATE	United States	11/639658	14-Dec-2006	Pending
VOLTAGE REFERENCE IN A GENERAL				-
PURPOSE CMOS TECHNOLOGY				

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Title	Jurisdiction	Reg. No./ Serial No.	Filing Date / Reg. Date	Status
COUPLED-INDUCTOR FOR SWITCHING POWER SUPPLY	United States	11/903185	19-Sep-2007	Published
HYSTERETIC MODE CONTROLER FOR CAPACITOR VOLTAGE DIVIDER	United States	11/748450	05-Jun-2007	Published
METHOD OF TRICKLE CHARGING A BATTERY IN A NARROW RAIL ARCHITECTURE	United States	11/696990	05-Apr-2007	Published
SIGMA DELTA CONVERTER SYSTEM AND METHOD	United States	11/999256	03-Dec-2007	Published
LIGHT SENSORS WITH INFRARED SUPPRESSION	United States	11/621443	09-Jan-2007	Published
METHOD AND APPARATUS FOR EFFICIENT TRANSITIONING BETWEEN DIFFERENT OPERATING MODES OF A REGULATOR	United States	11/869070	09-Oct-2007	Pending
SYSTEM AND METHOD TO CALCULATE INITIAL DUTY CYCLE METHOD TO CALCULATE INITIAL DUTY CYCLE	United States	11/955212	12-Dec-2007	Published
SYSTEM AND METHOD OF CHARGING A BATTERY AND POWER DELIVERY USING AN ADAPTER AND CAPACITOR VOLTAGE DIVIDER CIRCUIT	United States	11/738549	23-Apr-2007	Pending
CRADLE CHARGER CONTROLLER WITH BELOW GROUND LEVEL BIASING	United States	11/856513	17-Sep-2007	Published
CONSTANT CURRENT LIGHT EMITTING DIODE (LED) DRIVER CIRCUIT AND METHOD	United States	12/002611	17-Dec-2007	Pending
POWER-SUPPLY CONTROL	United States	12/006726	04-Jan-2008	Pending
AMBIENT LIGHT SENSOR USING CONVENTIONAL CMOS IMAGE SENSOR PROCESS	United States	11/686311	14-Mar-2007	Published
SYSTEM AND METHOD FOR PROGRAMMING AND CONTROLLING OVER CURRENT TRIP POINT LIMITS IN VOLTAGE REGULATORS	United States	12/032328	15-Feb-2008	Published
A BACK CURRENT LIMITING SWITCH AND RELATED BI-DIRECTIONAL CURRENT-LIMITING SWITCH	United States	12/038334	27-Feb-2008	Published
POWER SUPPLY WITH A MAGNETICALLY UNCOUPLED PHASE AND AN ODD NUMBER OF MAGNETICALLY COUPLED PHASES, AND CONTROL FOR A POWER SUPPLY WITH MAGNETICALLY COUPLED AND MAGNETICALLY UNCOUPLED PHASES	United States	12/136014	09-Jun-2008	Published
MULTI-MODULE CURRENT SHARING	United States	11/775306	10-Jul-2007	Published

Title	Jurisdiction	Reg. No./ Serial No.	Filing Date / Reg. Date	Status
SCHEME				
EOS ROBUST BIPOLAR TRANSIENT CLAMP	United States	11/855829	14-Sep-2007	Pending
MEMORY ARRAY OF FLOATING GATE- BASED NON-VOLATILE MEMORY CELLS	United States	11/861111	25-Sep-2007	Published
IMPROVED BURIED ISOLATION LAYER	United States	11/877166	23-Oct-2007	Pending
METHOD OF FORMING THE NDMOS DEVICE BODY WITH THE REDUCED NUMBER OF MASKS	United States	11/870794	11-Oct-2007	Published
INTEGRATED CIRCUIT WITH A SUBSURFACE DIODE	United States	12/037569	26-Feb-2008	Published
BALASTED POLYCRYSTALINE FUSE	United States	11/963236	21-Dec-2007	Pending
METHOD FOR DETERMINATION OF INPUT CURRENT INTO A SWITCHING REGULATOR EXCLUSIVE OF A DEDICATED SENSE ELEMENT	United States	12/080263	31-Mar-2008	Published
CONTROLLER AND DRIVER COMMUNICATION FOR SWITCHING REGULATORS	United States	11/935535	06-Nov-2007	Pending
CONTROLLER HAVING COMP NODE VOLTAGE SHIFT CANCELLATION FOR IMPROVED DISCONTINUOUS CONDUCTION MODE (DCM) REGULATOR PERFORMANCE AND RELATED METHODS	United States	11/879074	16-Jul-2007	Pending
DYNAMIC CONVERTER TOPOLOGY	United States	12/105731	18-Apr-2008	Pending
DYNAMIC CONVERTER TOPOLOGY	United States	12/148787	21-Apr-2008	Pending
HIGHLY LINEAR BOOTSTRAPPED SWITCH WITH IMPROVED RELIABILITY	United States	12/141027	17-Jun-2008	Pending
PULSE-ADDING SCHEME FOR SMOOTH PHASE DROPPING AT LIGHT LOAD CONDITION	United States	11/954888	12-Dec-2007	Published
JUNCTION BARRIER SCHOTTKY DIODE	United States	12/107177	22-Apr-2008	Pending
HYBRID LASER DIODE DRIVERS THAT INCLUDE A STATE MACHINE	United States	11/749703	16-May-2007	Published
CIRCUITS AND METHODS TO PRODUCE A VPTAT AND/OR A BANDGAP VOLTAGE	United States	12/111796	29-Apr-2008	Published
DEACTIVATING PARALLEL MOSFETS TO IMPROVE LIGHT LOAD EFFICIENCY	United States	12/131531	02-Jun-2008	Pending
SENSING A PHASE-PATH CURRENT IN A MULTIPHASE POWER SUPPLY SUCH AS A COUPLED-INDUCTOR POWER SUPPLY	United States	12/189112	08-Aug-2008	Published
JUNCTION BARRIER SCHOTTKY DIODE WITH DUAL SILICIDES AND METHOD OF MANUFACTURE	United States	11/849565	04-Sep-2007	Pending
STACKABLE ELECTRONIC COMPONENT	United States	12/2002985	02-Sep-2008	Published
OVER-VOLTAGE PROTECTED BATTERY CHARGER WITH BYPASS	United States	11/931969	31-Oct-2007	Published
CLOSED LOOP, STEADY STATE FREQUENCY CONTROL OF VARIABLE FREQUENCY	United States	12/046342	11-Mar-2008	Published

Title	Jurisdiction	Reg. No./ Serial No.	Filing Date	Status
		Seriai No.	Reg, Date	
SWITCHER ARCHITECTURES				
COUPLED-INDUCTOR CORE FOR	United States	12/136018	09-Jun-2008	Published
UNBALANCED PHASE CURRENTS	Officed States	12, 130010	03 3411 2000	1 donoried
LOAD CURRENT COMPENSATION IN	United States	12/176759	21-Jul-2008	Pending
SYNCHRONOUS POWER CONVERTERS		·		
BUCK-BOOST REGULATOR	United States	12/134800	06-Jun-2008	Pending
DEAD-TIME TRANSITION ADJUSTMENTS	United States	12/176762	21-Jul-2008	Pending
FOR SYNCHRONOUS POWER CONVERTERS		,		
VOLTAGE CONVERTER WITH COMBINED	I I albert of Charles	42/470050	22 1.1 2000	Dan dia
BUCK CONVERTER AND CAPACITIVE	United States	12/178050	23-Jul-2008	Pending
VOLTAGE DIVIDER ANALOG SWITCH WITH OVERCURRENT				
DETECTION	United States	12/235274	22-Sep-2008	Pending
THRESHOLD VOLTAGE MONITORING AND				
CONTROL IN SYNCHRONOUS POWER	United States	12/116092	06-May-2008	Pending
CONVERTERS	Officed States	12,110032	00 May 2000	renang
LEAKAGE CURRENT CANCELLATION				
TECHNIQUE FOR INTEGRATED ANALOG	United States	12/261087	30-Oct-2008	Pending
SWITCHES		12, 201007		
ANALOG SWITCH ARCHITECTURE FOR		10/000701	20.0 . 2000	5 U
OPERATION OUTSIDE OF POWER RAILS	United States	12/260721	30-Oct-2008	Pending
ARCHITECTURE FOR HIGHLY ACCURATE	I Indianal Characa	12/242026	01.0-+ 2000	Daniellin i
DCP	United States	12/242926	01-Oct-2008	Pending
INTEGRATED EFFICIENCY OPTIMIZATION	United States	12/334440	12-Dec-2008	Pending
LOOP FOR MULTI-PHASE BUCK VRS	Officed States	12/334440	12-Det-2008	rending
A COEFFICIENT COMPRESSION METHOD				
TO STORE LARGE NUMBER OF FIR	United States		12-Sep-2008	Published
COEFFICIENTS				
SWITCHING REGULATOR WITH BALANCED		,		
CONTROL CONFIGURATION TO ELMINATE	United States	12/324368	26-Nov-2008	Published
COMPENSATION		11/020551		5 1 11 1
BANDGAP VOLTAGE REFERENCE CIRCUIT	United States	11/968551	02-Jan-2008	Published
SUB-VOLT BANDGAP VOLTAGE REFERENCE	United States	12/350899	08-Jan-2009	Pending
WITH BUFFERED CTAT BIAS MODULATOR WITH LINEAR PERIOD				
STRETCHING CAPABILITY	United States	12/173602	15-Jul-2008	Pending
SYSTEM AND METHOD FOR IMPROVING				
INDUCTOR CURRENT SENSING ACCURACY	United States	12/329147	05-Dec-2008	Published
OF A DC/DC VOLTAGE REGULATOR	Office States	12/323147	05 Dec 2000	rabiisiica
BI-DIRECTIONAL OPEN DRAIN BUFFER				
WITH REDUCED OFFSET	United States	12/060829	01-Apr-2008	Pending
PROXIMITY SENSORS AND METHODS FOR				
SENSING PROXIMITY	United States	12/101047	10-Apr-2008	Published
CLIP MOUNT FOR INTEGRATED CIRCUIT	I lock of Co.	42/252 525	12.0 : 2222	D !!
AND FRAMES	United States	12/250,525	13-Oct-2008	Pending
AC AND DC TEMPERATURE				
COMPENSATION SCHEME FOR DCR	United States	12/339500	19-Dec-2008	Pending
CURRENT SENSE				

			Filing Date	
Title	Jurisdiction	Reg. No./	7	Status
	•	Serial No.	Reg. Date	
ANALOG TO DIGITAL CONVERSION BY			•	
SYNCHRONOUS PULSE WIDTH		40/270040	40 5 1 2000	
MODULATOR/SWITCHED CAPACITOR	United States	12/378818	18-Feb-2009	Pending
RESISTOR FEED BACK				
POWER-SUPPLY CONTROL	United States	12/006703	04-Jan-2008	Published
SYSTEM AND METHOD FOR PROVIDING	Linitaal Ctataa	12/500072	21 1 2000	Published
PULSE FREQUENCY MODULATION MODE	United States	12/506672	21-Jul-2009	Published
QUASI TRANSITION DIODE EMULATION	United States	12/558035	11-Sep-2009	Published
SYSTEM AND METHOD OF PROVIDING				
CONTROL PULSES				
TO CONTROL OPERATION OF A	United States	12/350560	26-Jan-2009	Pending
CONVERTER WITH HIGH FREQUENCY				
REPETITIVE LOAD TRANSIENTS				
METHOD AND SYSTEM FOR DIMMING AC-				
POWERED LIGHT EMITTING DIODE (LED)				
LIGHTING SYSTEMS USING	United States	12/366642	05-Feb-2009	Published
CONVENTIONAL INCANDESCENT				
DIMMERS				
WAVEFORM CURRENT MONITOR USING	United States	12/248355	09-Oct-2008	Published
RDSON OF LOW-SIDE BRIDGE FET		,		
HIGH-SIDE SENSING OF ZERO INDUCTOR				
CURRENT FOR STEP DOWN DC-DC	United States	12/204344	04-Sep-2008	Pending
CONVERTER	11 11 161 1	42/277042	25 N 2000	5 1 1 1
HYBRID LASER DIODE DRIVERS	United States	12/277912	25-Nov-2008	Published
DEVICE UNDER TEST POWER SUPPLY	United States	12/408157	20-Mar-2009	Pending
VARYING OPERATION OF A VOLTAGE				
REGULATOR, AND COMPONENTS THEREOF, BASED UPON LOAD	United States	12/192234	15-Aug-2008	Published
CONDITIONS				
DYNAMIC HEADROOM CONTROL FOR LED				
DRIVER	United States	12/492748	26-Jun-2009	Published
POWER SUPPLY WITH A MAGNETICALLY				
UNCOUPLED PHASE AND AN ODD				
NUMBER OF MAGNETICALLY COUPLED				
PHASES, AND CONTROL FOR A POWER	United States	12/136023	09-Jun-2008	Pending
SUPPLY WITH MAGNETICALLY COUPLED				
AND MAGNETICALLY UNCOUPLED PHASES				
CHOPPER STABILIZED AMPLIFIER	United States	12/144384	23-Jun-2008	Published
BOOST REGULATOR USING SYNTHETIC				
RIPPLE REGULATION	United States	12/134910	06-Jun-2008	Pending
VOLTAGE CONVERTER WITH COMBINED				
CAPACITIVE VOLTAGE DIVIDER, BUCK	United States	12/178223	23-Jul-2008	Pending
CONVERTER AND BATTERY CHARGER		,		
POWER-SUPPLY CONTROLLER WITH				
DIFFERENT STEADY STATE AND TRANSIENT	United States	12/498287	06-Jul-2009	Pending
RESPONSE CHARACTERISTICS				
DUAL USE OF TIMING CAPACITOR FOR	United Ctatas	12/420172	27 Apr 2000	Dublish ad
INTEGRATOR FUNCTION	United States	12/430172	27-Apr-2009	Published

Title	Jurisdiction	Reg. No./ Serial No.	Filing Date / Reg. Date	Status
BUCK BOOST FUNCTION BASED ON CAPACITOR BOOTSTRAP INPUT BUCK CONVERTER	United States	12/480823	09-Jun-2009	Published
ADAPTIVE CURRENT LIMIT FOR USB CHARGER APPLICATIONS	United States	12/428741	23-Apr-2009	Pending
BUCK REGULATOR INPUT CURRENT CALCULATOR	United States	12/550081	28-Aug-2009	Published
ADVANCED PHASE NUMBER CONTROL FOR IMPROVED EFFICIENCY AND FAST TRANSIENT RESPONSE IN MULTIPHASE CONVERTER APPLICATIONS	United States	12/501204	10-Jul-2009	Published
STACKED FETS FOR A POWER CONVERTER	United States	12/424666	16-Apr-2009	Pending
A SINGLE EXTERNAL RESISTOR OUTPUT IMPEDANCE CONTROL CIRCUIT FOR PROVIDING CONSTANT OUTPUT IMPEDANCE FOR MULTIPLE DRIVERS OF A CHIP OPERATING AT DIFFERENT SUPPLY VOLTAGES	United States	12/419869	07-Apr-2009	Pending
BUCK CONTROLLER INTEGRATED WITH BOOST CONTROL AND DRIVER	United States	12/482818	11-Jun-2009	Published
SYSTEM AND METHOD FOR REDUCING VOLTAGE OVERSHOOT DURING LOAD RELEASE WITHIN A BUCK REGULATOR	United States	12/506722	21-Jul-2009	Published
CURRENT SENSE CASCODE AMPLIFIER	United States	12624704	24-Nov-2009	Pending
RADIATION HARDENED DEVICE	United States	12/372893	18-Feb-2009	Published
IMPROVED DUAL RAMP MODULATOR	United States	12/492397	26-Jun-2009	Pending
PWM CLOCK GENERATION SYSTEM AND METHOD TO IMPROVE TRANSIENT RESPONSE OF A VOLTAGE REGULATOR	United States	12/490752	24-Jun-2009	Published
CONSTANT LOOP GAIN CONTROL FOR BUCK REGULATOR/MODULE	United States	12/539035	11-Aug-2009	Pending
ADVANCED SLOPE INJECTION FOR INPUT CURRENT LIMITING OF SWITCH-MODE DC/DC CONVERTER	United States	12/428739	23-Apr-2009	Published
CHARGER IC WITH BUILT-IN USB DETECTION	United States	12/423056	14-Apr-2009	Published
VOTER TESTER FOR REDUNDANT SYSTEMS	United States	12/604292	22-Oct-2009	Pending
SYSTEM AND METHOD FOR BOOST-BUCK TRANSITION	United States	12/429241	24-Apr-2009	Published
PHASE SWAPPER SCHEME FOR IMPROVED PHASE CURRENT BALANCE IN PHASE DOUBLER	United States	12/429238	24-Apr-2009	Published
SWITCHABLE SOLAR CELL DEVICES	United States	12/470325	21-May-2009	Pending
CALIBRATION OF TWO-CHANNEL TIME- INTERLEAVED ANALOG-TO-DIGITAL CONVERTERS	United States	12/419599	07-Apr-2009	Pending
UNIQUE CABLE EQUALIZATION ARCHITECTURE	United States	12/412280	26-Mar-2009	Pending

Tries.	Landa di atian	Reg. No./	Filing Date	Ctataa
Title	Jurisdiction	Serial No.	Reg. Date	Status
SYSTEM AND METHOD FOR PHASE DROPPING AND ADDING	United States	12/730372	24-Mar-2010	Pending
FAULT TOLERANT REDUNDANT CLOCK CIRCUIT	United States	12/620,454	17-Nov-2009	Pending
PWM VOLTAGE CONVERTER WITH TRANSIENT AND PERMANENT FAULT IMMUNITY THROUGH REDUNDANCY AND FEEDBACK ADJUSTMENT	United States	12/622278	19-Nov-2009	Pending
CO-PACKAGING APPROACH FOR POWER CONVERTERS BASED ON PLANAR DEVICES, STRUCTURE AND METHOD	United States	12/470229	21-May-2009	Pending
TESTER INTERFACE BOARD WITH REMOVABLE TEST SITES	United States	12/688903	17-Jan-2010	Pending
DYNAMIC PHASE TIMING CONTROL FOR MULTIPLE REGULATORS OR PHASES	United States	12/650772	31-Dec-2009	Pending
IMPROVED N-BIT PIN ADC READER	United States	12/631998	07-Dec-2009	Pending
ACTIVE DROOP CURRENT SHARING	United States	12/505492	19-Jul-2009	Published
ADDING AND DROPPING PHASES IN CURRENT SHARING	United States	12/505493	19-Jul-2009	Published
INTELLIGENT MANAGEMENT OF CURRENT SHARING GROUP	United States	12/505494	19-Jul-2009	Published
METHOD TO PROPERLY RAMP CURRENT SHARING RAIL	United States	12/505495	19-Jul-2009	Published
STACKED POWER CONVERTER STRUCTURE AND METHOD	United States	12/477818	03-Jun-2009	Pending
SINGLE DIE OUTPUT POWER STAGE USING TRENCH-GATE LOW-SIDE AND LDMOS HIGH-SIDE MOSFETS, STRUCTURE AND METHOD	United States	12/471911	26-May-2009	Pending
RANDOMIZATION OF SAMPLE WINDOW IN CALIBRATION OF TIME INTERLEAVED ANALOG TO DIGITAL CONVERTER	United States	12/749882	30-Mar-2010	Pending
ASYMMETRIC ZERO-VOLTAGE SWITCHING FULL-BRIDGE POWER CONVERTERS	United States	12/651433	31-Dec-2009	Pending
A CIRCUIT TO MULTIPLEX A CURRENT LIMITING INPUT TO AN OPEN-DRAIN OUTPUT	United States	12/482527	11-Jun-2009	Pending
OPTICAL SENSORS AND METHODS FOR PROVIDING OPTICAL SENSORS	United States	12/499693	08-Jul-2009	Pending
SOLAR CELL WITH INTEGRATED SWITCH AND CONNECTION METHOD	United States	12/470351	21-May-2009	Pending
UN-BUFFERED SEGMENTED R-DAC WITH SWITCH CURRENT REDUCTION	United States	12/713841	26-Feb-2010	Pending
SYSTEM AND METHOD FOR DETERMINING OUTPUT VOLTAGE LEVEL INFORMATION FROM PHASE VOLTAGE FOR SWITCHED MODE REGULATOR CONTROLLERS	United States	12/700103	04-Feb-2010	Pending
METHOD OF INTERCONNECT CHECKING	United States	12/494031	30-Jun-2009	Pending

			Filing Date	
Title	Jurisdiction	Reg. No./	/ /	Status
*****	ganganonon	Serial No.	Reg. Date	Gratus
AND VERIFICATION FOR MULTIPLE ESD				
SPECIFICATIONS				
DATA LOOK AHEAD TO REDUCE POWER				
CONSUMPTION	United States	12/607924	28-Oct-2009	Pending
LINEARIZING DAC FOR PICO PROJECTOR				
LASER DIODE DRIVERS	United States	12/607929	28-Oct-2009	Pending
LOW THERMAL RESISTANCE AND ROBUST				
CHIP-SCALE-PACKAGE (CSP), STRUCTURE	United States	12/612616	04-Nov-2009	Pending
AND METHOD	Officed States	12/012010	04-1107-2003	rending
TRANSIENT SUPPRESSION FOR BOOT				
REGULATOR	United States	12/492755	26-Jun-2009	Published
CONTROL MODE FOR ZVS CONVERTER AT				
RESONANT OPERATING FREQUENCIES	United States	12/651875	04-Jan-2010	Pending
A SCHEME OF PEM PWM MODE				
TRANSITION IN MULTIPLE PHASE BUCK	United States	12/603218	21-Oct-2009	Pending
CONVERTER	Officed States	12/003218	21-001-2009	rending
USE OF THE NEGATIVE CAPACITANCE				
CIRCUIT WITH AN EQUALIZER	United States	12/604955	23-Oct-2009	Pending
CELL BALANCING AND CHARGING	United States	12/650775	31-Dec-2009	Pending
O-RING PHASES FOR OVERCOME THE	Officed States	12/030773	31-Dec-2009	rending
DUTY CYCLE LIMITATION ISSUE IN	United States	12/651012	31-Dec-2009	Pending
MULTIPHASE BOOST CONVERTER	Officed States	12/031012	31-Dec-2009	rending
OPTICAL SENSORS THAT REDUCE				
SPECTRAL REFLECTIONS	United States	12/499723	08-Jul-2009	Pending
SYSTEM AND METHOD FOR CONTROLLING				
SYNCHRONOUS SWITCH FOR A	United States	12/694594	27-Jan-2010	Pending
SYNCHRONOUS CONVERTER	Officed States	12,054554	27 3411 2010	renaing
WAY OUT OF BALANCE (WOB) CURRENT				
CORRECTION FOR USE WITH A MULTI-	United States	12/691438	21-Jan-2010	Pending
PHASE DC-DC CONVERTER	Officed States	12,031,30	21 3411 2010	renang
COMPONENT FAULT DETECTION FOR USE				
WITH A MULTI-PHASE DC-DC CONVERTER	United States	12/691589	21-Jan-2010	Pending
CALIBRATION OF OFFSET, GAIN AND				
PHASE ERRORS IN M-CHANNEL TIME-				
INTERLEAVED ANALOG-TO-DIGITAL	United States	12691449	21-Jan-2010	Pending
CONVERTERS				
PROXIMITY SENSORS WITH IMPROVED				
AMBIENT LIGHT REJECTION	United States	12716220	02-Mar-2010	Pending
DEPLETED TOP GATE JUNCTION FIELD				
EFFECT TRANSISTOR (DTG JFET)	United States	12726855	18-Mar-2010	Pending
LOW NOISE, LOW POWER				
INSTRUMENTATION AMPLIFIER	United States	12/627959	30-Nov-2009	Pending
SERIES/PARALLEL POWER SUPPLY		4070	47.5.1.55.5	
SWITCHING	United States	12707103	17-Feb-2010	Pending
IMPROVED TIE-BAR CONFIGURATION FOR				
LEADFRAME TYPE CARRIER STRIPS CROSS-	United States	12/699811	03-Feb-2010	Pending
REFERENCE TO RELATED APPLICATION	_			j
ADAPTIVE PWM CONTROL AT MULTI	United States	12/705783	15-Feb-2010	Pending
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Title	Jurisdiction	Reg. No./	ming Date	Status
*****	garmatenon	Serial No.	Reg. Date	Silitas
CHANNEL LED DRIVER IC				
ELECTROSTATIC DISCHARGE CLAMP WITH				
CONTROLLED HYSTERESIS INCLUDING				
SELECTABLE TURN ON AND TURN OFF	United States	12/721172	10-Mar-2010	Pending
THRESHOLD VOLTAGES				
MONOLITHIC OUTPUT STAGE WITH				
VERTICLE HIGH-SIDE PMOS AND VERTICLE				
LOW-SIDE NMOS INTERCONNECTED	United States	12/717976	05-Mar-2010	Pending
USING BURIED METAL, STRUCTURE AND	000000	,,	00 111411 2020	
METHOD				
INTEGRATOR FOR PROVIDING				
OVERSHOOT PROTECTION AND LIGHT				
SWITCHING MODE DURING NON-ZERO	United States	12/730960	24-Mar-2010	Pending
LOAD CONDITION FOR AN LED DRIVER				
CIRCUIT				
DIAMOND SOI WITH THIN SILICON				
NITRIDE LAYER	United States	12/719988	09-Mar-2010	Pending
APPARATUS AND METHODOLOGY FOR				
MAXIMUM POWER POINT TRACKING FOR	United States	12/716654	03-Mar-2010	Pending
A SOLAR PANEL		,		
OPTICAL SENSORS THAT REDUCE		42/642024	24 5 2000	D !!
SPECTRAL REFLECTIONS	United States	12/643831	21-Dec-2009	Pending
CIRCUITS AND METHODS TO PRODUCE A	I Indianal Chakan	12/717052	02.142010	Dan din s
BANDGAP VOLTAGE WITH LOW-DRIFT	United States	12/717052	03-Mar-2010	Pending
ROTATING GAIN RESISTORS TO PRODUCE	United States	12/718840	05-Mar-2010	Dandina
A BANDGAP VOLTAGE WITH LOW-DRIFT	Officed States	12//18840	03-Mar-2010	Pending
ACCURACY IMPROVEMENT				
METHODOLOGY WHICH ALLOWS CHIP-BY-	United States	11/399547	06-Apr-2006	Published
CHIP MEASUREMENT CORRECTION				
METHOD AND SYSTEM FOR DATA	United States	11/446488	01-Jun-2006	Published
TRANSMISSION AND RECOVERY	Officed States	11/440400	01-3011-2000	Fubilished
USE OF DIFFERENTIAL PAIR AS SINGLE-				
ENDED DATA PATHS TO TRANSPORT LOW	United States	11/601070	17-Nov-2006	Pending
SPEED DATA				
TECHNIQUES TO PRECHARGE THE BOOT				
CAP IN SWITCHING REGULATORS WITH	United States	12/611701	03-Nov-2009	Pending
HIGH PRE BIAS VOLTAGE				
HIGH SPEED SERDES WITH BACK CHANNEL				
COMMUNICATIONS: THE FREQUENCY	United States	61/234484	17-Aug-2009	Pending
DIVISION APPROACH				
A ROBUST 2-WIRE DAISY CHAIN	United States	61/176800	08-May-2009	Pending
COMMUNICATIONS SYSTEM		,		
RANDOMIZATION AS A TECHNIQUE TO				
IMPROVE GENERAL APPLICABILITY OF	United States	61/222381	10-Jul-2009	Pending
INTERLEAVE CALIBRATION FOR ANALOG		,		
TO DIGITAL CONVERTERS				
METHOD TO FINE ADJUST RESISTANCE OF	United States	61/172373	24-Apr-2009	Pending
POLYSILICON RESISTORS		<u> </u>	·	

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Title	Jurisdiction	Reg. No./ Serial No.	Filing Date	Status
		Seriai No.	Reg. Date	
LONG RANGE PROXIMITY AND/OR				
MOTION DETECTOR WITH AMBIENT LIGHT	United States	61/173951	29-Apr-2009	Pending
DETECTION CAPABILITIES			·	
ENHANCEMENT-MODE AIGaN/GaN HEMT				
WITH SELF-ALIGNED ASYMMETRIC AIGaN	t to the electrical control	64 /240005	24.1 2000	Dan Para
GATE FIELD PLATE STRUCTURE AND	United States	61/219995	24-Jun-2009	Pending
METHOD				
SAMPLING METHOD FOR TIME-				
INTERLEAVED DATA CONVERTERS IN	Linita d Chata	C1 /2CF1C0	20 Nov. 2000	Dan din s
FREQUENCY-MULTIPLEXED	United States	61/265168	30-Nov-2009	Pending
COMMUNICATIONS SYSTEMS				
CALIBRATION OF OFFSET, GAIN AND				
PHASE ERRORS IN M-CHANNEL TIME-	Linite of Chates	64 /222574	12 4 2000	Daniella e
INTERLEAVED ANALOG-TO-DIGITAL	United States	61/233571	13-Aug-2009	Pending
CONVERTERS				
COMPENSATED BURST MODE CONTROL	United States	61/242753	15-Sep-2009	Pending
POWER SUPPLY WITH INRUSH CURRENT		64 (007770		_
CONTROL	United States	61/227772	22-Jul-2009	Pending
POWER SUPPLY WITH INRUSH CURRENT		64 (222725	40.4 0000	5 !!
CONTROL	United States	61/232735	10-Aug-2009	Pending
HYSTERETIC CONTROLLED BUCK-BOOST		24/27227	4	
CONTROLLER	United States	61/252054	15-Oct-2009	Pending
EQUALIZING THE SMALL SIGNAL				
RESPONSE OF VARIABLE PHASE VOLTAGE	United States	61/260720	12-Nov-2009	Pending
REGULATORS		,		
TRIAC DIMMING INRUSH CURRENT		24/22222		
LIMITING IN AN LED DRIVER	United States	61/230989	03-Aug-2009	Pending
IMPROVED TIE-BAR CONFIGURATION FOR				
LEADFRAME TYPE CARRIER STRIPS CROSS-	United States	61/231998	06-Aug-2009	Pending
REFERENCE TO RELATED APPLICATION		,		
WAFER-LEVEL COATING FOR AMBIENT		24 /2 44247		- "
LIGHT SENSOR AND PROXIMITY SENSOR	United States	61/244817	22-Sep-2009	Pending
WAFER-LEVEL COATING FOR AMBIENT		24 (252 455		
LIGHT SENSOR AND PROXIMITY SENSOR	United States	61/259475	09-Nov-2009	Pending
INFRARED SUPPRESSING PHOTO-				
PATTERNABLE COATING FOR		04/057505		
PHOTODETECTING SEMICONDCUTOR DIE	United States	61/257595	03-Nov-2009	Pending
OR GLASS APPLICATIONS				
LOW-GLITCH PRECONDITIONING CIRCUIT				
FOR VOLTAGE REFERENCE WITH DYNAMIC	United States	61/249948	08-Oct-2009	Pending
ELEMENT MATCHING				
SEEDED DIAMOND FILM				
METHOD/DIAMOND DAMASCENE	United States	61/286440	15-Dec-2009	Pending
METHOD				
SYSTEM AND METHOD FOR				
PROGRAMMING A TIME DELAY FOR PHASE	United States	61/249371	07-Oct-2009	Pending
SHIFTING IN A DC/DC CONVERTER				
POCI3 DOPED G-SOI LAYER	United States	61/291059	30-Dec-2009	Pending
<u> </u>				

Title Jurisdiction Serial No. / Reg. Date DIAMOND HEAT SPREADER STRUCTURE United States 61286467 15-Dec-2009 Pend OFFLINE LINEARITY CORRECTION TECHNIQUE OR (N+M) BIT DACS NOISE CANCELLATION FOR GPS ANTENNA MODULE United States 61/090872 21-Aug-2009 Pend Office States 61/090872 21	ding
DIAMOND HEAT SPREADER STRUCTURE United States 61286467 15-Dec-2009 Pend OFFLINE LINEARITY CORRECTION TECHNIQUE OR (N+M) BIT DACS United States 61/260801 12-Nov-2009 Pend OFFLINE CANCELLATION FOR GPS ANTENNA MODULE United States 61/090872 21-Aug-2009 Pend OFFLINE CANCELLATION FOR GPS ANTENNA MODULE	
OFFLINE LINEARITY CORRECTION TECHNIQUE OR (N+M) BIT DACS NOISE CANCELLATION FOR GPS ANTENNA MODULE United States 61/260801 12-Nov-2009 Pend 61/090872 21-Aug-2009 Pend	
TECHNIQUE OR (N+M) BIT DACS NOISE CANCELLATION FOR GPS ANTENNA MODULE Onited States 61/260801 12-Nov-2009 Pend For the states of the states	ding
NOISE CANCELLATION FOR GPS ANTENNA MODULE United States 61/090872 21-Aug-2009 Pend	
MODULE	
	ding
NON-ISOLATED SHIFTED TRANSFORMER	
POWER TRAIN United States 61/243290 17-Sep-2009 Pend	aing
NON-ISOLATED SHIFTED TRANSFORMER	-11
POWER TRAIN United States 61/306130 19-Feb-2010 Pend	aing
TRENCH ISOLATION USING DIAMOND	alia a
REFILL United States 61/291165 30-Dec-2009 Pend	uing
NEGATIVE VOLTAGE DETECT AND CLAMP United States 61/249362 07-Oct-2009 Pend	din a
FOR CMOS SWITCHES United States 61/249362 07-Oct-2009 Pend	uirig
METHOD FOR ACCURATELY MEASURING	
CURRENTS USING ON CHIP SENSE United States 61/253904 22-Oct-2009 Pend	ding
RESISTORS	
AUTO-COMPENSATING POWER United States 61/244187 21-Sep-2009 Pend	dina
CONVERTER Officed States 01/244187 21-3ep-2009 Ferri	uirig
SINGLE-CYCLE CHARGE REGULATOR United States 61/296694 21-Jan-2010 Pend	dina
FORPOWER CONVERTERS STREET STR	чпв
APPLICATION SPECIFIC POWER United States 61/298340 26-Jan-2010 Pend	ding
CONVERTERS	41118
METHOD TO GETTER CONTAMINATION IN	
BONDED SOI WAVERS USING RESIDUAL United States 61/262624 19-Nov-2009 Pend	ding
GRIND DAMAGE	
AN RS-485 RECEIVER WITH A FULL FAIL- United States 61/250487 09-Oct-2009 Pend	ding
SAFE POLARITY INVERSION FUNCTION	
DIAMOND SOI WITH THIN SILICON United States 61/299702 29-Jan-2010 Pend	ding
NITRIDE LAYER	
A SINGLE MASK ISOLATION, SINKER AND United States 61/261043 13-Nov-2009 Pend	ding
DEEP-BASE STRUCTURE AND METHOD SINGLE MARK THIN SHAM RESISTOR	
SINGLE MASK THIN FILM RESISTOR United States 61/264942 30-Nov-2009 Pend	ding
INTEGRATION INTO A CMP BACKEND SINGLE MACK THIN SHAR RESISTOR	
SINGLE MASK THIN FILM RESISTOR United States 61/318856 30-Mar-2010 Pend	ding
INTEGRATION INTO A CMP BACKEND INTEGRATED CHARDED SCHOTTICK PLODE	
INTEGRATED GUARDED SCHOTTKY DIODE COMPATIBLE WITH TRENCH-GATE DMOS; United States 61/263618 23-Nov-2009 Pend	dina
COMPATIBLE WITH TRENCH-GATE DMOS; United States 61/263618 23-Nov-2009 Pend STRUCTURE AND METHOD	ullig
OPEN LOOP DIMMING IN AN LED DRIVER United States 61/257803 03-Nov-2009 Pend	dina
HEAT CONDUCTION IDEAS FOR CHIP	unig
STACKS/3D CIRCUITS United States 61/285325 10-Dec-2009 Pend	ding
HEAT CONDUCTION IDEAS FOR CHIP	
STACKS/3D CIRCUITS United States 61/295292 15-Jan-2010 Pend	ding
POWER SUPPLY WITH LOW POWER	
CONSUMPTION HICCUP STANDBY United States 61/256738 30-Oct-2009 Pend	ding
OPERATION OTHER States 01/250750 50 Get 2005	-····o
TRENCH GUARDED SCHOTTKY DIODE	
COMPATIBLE WITH POWER DIE; United States 61/259399 09-Nov-2009 Pend	ding

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Title	Jurisdiction	Reg. No./	Filing Date	Status
Title	Jurisamun	Serial No.	Reg. Date	Status
STRUCTURE AND METHOD			Keg. Date	
TRENCH GUARDED SCHOTTKY DIODE				
	Linited States	C1/201147	20 Dec 2000	Dandina
COMPATIBLE WITH POWER DIE;	United States	61/291147	30-Dec-2009	Pending
STRUCTURE AND METHOD INTEGRATED LDMOS AND SCHOTTKY	Linited Ctates	C1/201124	30-Dec-2009	Dandina
	United States	61/291124	30-Dec-2009	Pending
SINGLE HALF DIE BRIDGE MADE BY		64 /25 64 45	24.11 2000	D 1'
LATERAL MOSFETS CONNECTED THROUGH	United States	61/256145	24-Nov-2009	Pending
SUBSTRATE				
STARTUP METHOD FOR SYSTEM WITH	United States	61/262631	19-Nov-2009	Pending
INDEPENDENT REGULATION				-
CORRECTION OF NON-LINEARITIES IN	United States	61/305609	18-Feb-2010	Pending
ADCS		,		
PARTITIONED COLOR, DOUBLE RATE	United States	61/290861	29-Dec-2009	Pending
VIDEO DATA TRANSFER METHOD		,		
PACKAGING A STACK UP COUPLE	United States	61/267117	07-Dec-2009	Pending
INDUCTOR MAGNETIC		,		
IMPROVED APPARATUS AND				
METHODOLOGY FOR AUTOMATIC PHASE				
ADJUSTMENT OF A PWM OUTPUT SIGNAL	United States	61/263456	23-Nov-2009	Pending
OF A PROGRAMMABLE POWER SUPPLY				
CONTROLLER				
INTEGRATED SENSE RESISTOR				
COMPATIBLE WITH POWERDIE;	United States	61/308565	26-Feb-2010	Pending
STRUCTURE AND METHOD				
SINGLE DIE HALF-BRIDGE MADE BY				
LATERAL MOSFETS CONNECTED THROUGH	United States	61/291107	30-Dec-2009	Pending
SUBSTRATE WITH INTEGRATED SCHOTTKY				
ISOLATED BI-DIRECTION DC-DC	United States	61/288798	21-Dec-2009	Pending
CONVERTER STRUCTURE	Officed States	01/288/98	21-Det-2009	Fending
ISOLATED BI-DIRECTION DC-DC	United States	61/319842	31-Mar-2010	Pending
CONVERTER STRUCTURE	Officed States	01/319042	31-War-2010	rending
PA LINEARIZATION WITH CANCELLATION-	Limite of Chatas	C1200220	01 Feb 2010	Dandina
BASED PRE-DISTORTION METHOD	United States	61300328	01-Feb-2010	Pending
PA LINEARIZATION WITH CANCELLATION-	United States	61/316608	23-Mar-2010	Pending
BASED FEED-FORWARD METHOD	United States	01/310008	25-Mar-2010	Pending
IN-BAND INTERFERER REDUCTION FOR				
SHARED ANTENNA (WIRELESS LAN AND	Linited States	61/308647	20 Feb 2010	Pending
BLUETOOTH) WITH CANCELLATION-BASED	United States	61/308647	26-Feb-2010	Pending
METHOD				
SYSTEM AND METHOD TO REDUCE IDLE				
CHANNEL CURRENT AND NOISE FLOOR BY	United States	61/293586	08-Jan-2010	Pending
RAMPING DOWN NOISE SHAPER	United States	61/293586	08-Jan-2010	Pending
COEFFICIENTS				
HIGH INPUT POWER CASCADED FILTER				
BASED IN-BAND PA NOISE CANCELLER FOR	Linitad States	61/200007	26 Eab 2010	Dandina
SENSITIVE RECEIVER (MOBILE TV TUNER,	United States	61/308697	26-Feb-2010	Pending
GPS etc)				
ANALOG SWITCH WITH INTERNAL DEVICE	United States	61296752	20-Jan-2010	Pending

			Filing Date	
Title	Jurisdiction	Reg. No./	/ /	Status
2.1124	Juinalenon	Serial No.	Reg. Date	Giutas
BODY CONTROL				
PHOTO DETECTOR IC FOR PICO-				
PROJECTOR APPLICATIONS	United States	61/296987	21-Jan-2010	Pending
MONOLITHIC INTEGRATION OF GAN AND				
SILICON DEVICES AND CIRCUITS;	United States	61/299013	28-Jan-2010	Pending
STRUCTURE AND METHOD	Office States	01,233013	20 3411 2010	rending
A HIGH PRECISION CURRENT SENSING				
METHOD FOR USE IN AN INTEGRATED	United States	61/298686	27-Jan-2010	Pending
CIRCUIT	Officed States	01,230000	27 3411 2010	renang
ARCHITECTURE FOR A REFLECTION BASED				
LONG RANGE PROXIMITY AND MOTION				
DETECTOR HAVING AN INTEGRATED	United States	61298895	27-Jan-2010	Pending
AMBIENT LIGHT SENSOR				
NOVEL CONTROL SCHEME OF SINGLE				
INDUCTOR DUAL OUTPUT DC-DC				
CONVERTER FOR SOLAR AND MODULE	United States	61/300579	02-Feb-2010	Pending
APPLICATION				
SYSTEM AND METHOD FOR NON-				
INVERTING BUCK BOOST CONVERTERS	United States	61/299511	29-Jan-2010	Pending
IMPROVED METHOD OF MAKING				
SEMICONDUCTOR DEVICE WITH LOW				
PINCH OFF JFET SECTION FORMED BELOW	United States	61/303996	12-Feb-2010	Pending
SEMICONDUCTOR SURFACE				
ULTRASONIC FEATURE WITH ULTRA LOW				
QUIESCENT CURRENT FOR DC-DC	United States	61/316226	22-Mar-2010	Pending
COVNERTER		,		
MODULATION SCHEME WITH A SINGLE				
COMPARATOR FOR CONSTANT	United States	61/315587	19-Mar-2010	Pending
FREQUENCY BUCK-BOOST CONVERTER				_
METHOD FOR IMPLEMENTATION OF AN				
R4 MODULATED SWITCH MODE	Limited Ctates	C1/2177C1	26 Mar 2010	Dandina
CONVERTER AS MULTIPHASE OR	United States	61/317761	26-Mar-2010	Pending
MULTIMODULE				
METHOD OF FABRICATING A				
SEMICONDUCTOR DEVICE LAYER WITH	United States	61/217002	24-Mar-2010	Pending
BURIED LAYERS ONTO A BURIED	United States	61/317083	24-Mai-2010	Pending
INSULATOR/HANDLE WAFER STRUCTURE				
SILICON				
PHOTODETECTOR/DEMODULATOR USING	United States	61/321972	08-Apr-2010	Pending
CONDUCTIVE TRENCH CONTACTS TO	Officed States	01/3219/2	06-Apr-2010	Pending
ENHANCE LATERAL ELECTRIC FIELD				
INTERMITTENT DIODE BRAKING SCHEME	United States	61320043	01-Apr-2010	Pending
NOVEL LINEAR PWM EXTENSION FOR	United States	61/307586	24-Feb-2010	Pending
HIGH DUTY CYCLE APPLICATIONS	Officed States	01/30/300	24-160-2010	rending
LASER DECAPSULATION APPARATUS AND	United States	12/435441	05-May-2009	Pending
METHOD	Officed States	12/433441	03-1v1ay-2009	rending
CURRENT MODE DC/DC CONVERTER WITH	United States	11/294700	05-Dec-2005	Pending
CONTROLLED OUTPUT IMPEDANCE	Since States	11,254,00	05 500 2005	1 CHAILIS

Title	Jurisdiction	Reg. No./ Serial No.	Filing Date / Reg. Date	Status
SYNCHRONOUS-RECTIFIED DC TO DC CONVERTER WITH IMPROVED CURRENT SENSING AND ASSOCIATED METHODS	United States	11/337925	23-Jan-2006	Pending
MULTI-PHASE CONVERTER WITH BALANCED CURRENTS	United States	12/325874	01-Dec-2008	Pending
THERMAL COMPENSATED CURRENT SENSING OF INTRINSIC POWER CONVERTER ELEMENTS	United States	11/726407	21-Mar-2007	Pending
A SEMICONDUCTOR DEVICE MANUFACTURING WITH A REDUCED MASK COUNT BURIED LAYER	United States	10/958229	05-Oct-2004	Pending
ACTIVE MODE LINE VOLTAGE REGULATOR FOR RINGING SUBSCRIBER LINE INTERFACE CIRCUIT	United States	12/260697	29-Oct-2008	Pending
PROGRAMMABLE CURRENT-SENSING CIRCUIT PROVIDING CONTINUOUS TEMPERATURE COMPENSATION FOR DC- DC CONVERTER	United States	12/426884	20-Apr-2009	Pending
METHOD OF SETTING BI-DIRECTIONAL OFFSET IN A PWM CONTROLLER USING A SINGLE PIN	United States	12/254450	20-Oct-2008	Pending
METHOD AND STRUCTURE FOR NON- SINGLE-POLYCRYSTALLINE CAPACITOR IN AN INTEGRATED CIRCUIT	United States	12/200307	28-Aug-2008	Pending
METHOD TO PREVENT BOOSTING SYSTEM BUS WHEN CHARGING THE BATTERY	United States	12/492635	26-Jun-2009	Pending
PHASE SHIFT MODULATION-BASED CONTROL OF AMPLITUDE OF AC VOLTAGE OUTPUT PRODUCED BY DOUBLE-ENDED DC-AC CONVERTER CIRCUITRY FOR POWERING HIGH VOLTAGE LOAD SUCH AS COLD CATHODE FLUORESCENT LAMP	United States	12/547882	26-Aug-2009	Pending
SWITCHING AMPLIFIER OPTIMIZED FOR MINIMAL AND STABLE OUTPUT SEMICONDUCTOR DEAD TIMES	United States	12/270692	13-Nov-2008	Published
SYSTEMS AND METHODS FOR IMPROVED OVER-CURRENT CLIPPING	United States	12/346211	30-Dec-2008	Published
SILICON-CONTROLLED RECTIFIER (SCR) DEVICE FOR HIGH-VOLTAGE ELECTROSTATIC DISCHARGE (ESD) APPLICATIONS	United States	12/366159	05-Feb-2009	Pending

^{*} The following registered patents were assigned to Intersil Americas, Inc. pursuant to a Contribution Agreement between Intersil Communications, Inc. (formerly Intersil Corporation) and Intersil Americas, Inc., dated December 31, 2001. However, the USPTO records indicate that the current holder of these patents is Intersil Corporation.

HIGH SPEED DIFFERENTIAL	United States	5329187	12-Jul-1994	Granted
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			Filing Date	
Title	Jurisdiction	Reg. No./	/ /	Status
		Serial No.	Reg. Date	
COMPARATOR				
HIGH SPEED DIFFERENTIAL	United States	5332931	26-Jul-1994	Granted
COMPARATOR	Cinted States	3332331	20 30. 233 .	
SPIRAL EDGE PASSIVATION	17.4.10	F20202F	47.4 4005	
STRUCTURE FOR SEMICONDUCTOR DEVICES	United States	5382825	17-Jan-1995	Granted
LOW INDUCTANCE POWER PACKAGE			29-Oct-	
DESIGN	United States	5569957	1996	Granted
LEVEL SHIFT CIRCUIT WITH COMMON			14-Apr-	
MODE REJECTION	United States	5105099	1992	Granted
BRIDGE CONTROL CIRCUIT AND	II 's 1 Cs s	5070066	09-Feb-	<u> </u>
METHOD	United States	5870266	1999	Granted
DIFFERENTIAL AMPLIFIER WITH	United States	5367211	22-Nov-	Granted
HYSTERISIS	United States	3507211	1994	Granteu
CIRCUIT FOR PROVIDING A CURRENT			02-Aug-	
PROPORTIONAL TO ABSOLUTE	United States	5334929	1994	Granted
TEMPERATURE				
COMPARATOR AMPLIFIER	United States	5287068	15-Feb-	Granted
			1994	
IMPROVED NON-LINEAR OTA	United States	5307023	26-Apr- 1994	Granted
ELECTRICALLY PROGRAMMABLE			17-Jun-	
MEMORY CELL	United States	5640346	1997	Granted
OVER-VOLTAGE SENSOR WITH	I Indianal Change	5225422	02-Aug-	Cuantad
HYSTERESIS	United States	5335132	1994	Granted
BIMOS CURRENT DRIVER CIRCUIT	United States	5262689	16-Nov-	Granted
BINIOS CONNENT BRIVER CIRCOTT	Office States	3202003	1993	Grantea
INDUCTIVE LOAD DUMP CIRCUIT	United States	5347169	13-Sep-	Granted
ANARUEER MUTULURAL COMMAND			1994	
AMPLIFIER WITH HIGH COMMON MODE REJECTION	United States	5287071	15-Feb- 1994	Granted
AMPLIFIER SYSTEM FOR LOW LEVEL			1994 11-Apr-	
SIGNAL	United States	5406223	1995	Granted
FAIL-SAFE MOS SHUTDOWN			12-Nov-	_
CIRCUITRY	United States	5574609	1996	Granted
DIFFERENTIAL VOLTAGE MONITOR				
USING A BRIDGE CIRCUIT WITH	United States	5583442	10-Dec-	Granted
RESISTORS ON AND OFF OF AN	Office States	3383442	1996	Granted
INTEGRATED CIRCUIT				
INTEGRATED CIRCUIT THERMAL	United States	5359236	25-Oct-	Granted
SENSOR			1994	
CURRENT RISE AND FALL TIME	United States	5420499	30-May-	Granted
LIMITED VOLTAGE FOLLOWER APPARATUS FOR CONTROLLING THE	United States	5610792	1995 11-Mar-	Granted
AFFARATUS FOR CONTROLLING THE	United States	2010/97	TT-IAIQI -	Granted

Title	Jurisdiction	Reg. No./	Filing Date	Status
		Serial No.	Reg. Date	
RESET OF A BUS CONNECTED			1997	
TRANSCEIVER				
REVERSE CURRENT FLOW PREVENTION	United States	5608259	04-Mar-	Granted
IN A DIFFUSED RESISTOR	Omica States	3000233	1997	Grantea
CURRENT MIRROR WITH SATURATION	United States	5508551	16-Apr-	Granted
LIMITING	Cinted States	3300331	1996	- Crantea
DIRECT THERMOCOMPRESSION			27-Apr-	
BONDING TECHNOLOGY FOR THIN	United States	5206186	1993	Granted
ELECTRONIC POWER CHIP PACKAGES				
DIRECT THERMOCOMPRESSION	II. 't a 1 Ct at a a	5204047	19-Apr-	Constant
BONDING TECHNOLOGY FOR THIN	United States	5304847	1994	Granted
ELECTRONIC POWER CHIP PACKAGES			22 May	
DIRECT BONDING OF COPPER TO ALUMINUM NITRIDE SUBSTRATES	United States	5418002	23-May- 1995	Granted
SIMULATION OF NOISE BEHAVIOR OF				
NON-LINEAR CIRCUIT	United States	5682336	28-Oct- 1997	Granted
DOUBLE DUTY CAPACITOR CIRCUIT			18-Jun-	
AND METHOD	United States	5528682	1996	Granted
ANDIWETTIOD			23-Sep-	
CURRENT MODE RING TRIP DETECTOR	United States	5671272	1997	Granted
A FILTER WITH REDUCED ELEMENT			05-Nov-	
RATINGS AND METHOD	United States	5572162	1996	Granted
METHOD FOR MAKING OHMIC				
CONTACT TO LIGHTLY DOPED ISLAND	17 10	5640004	04 4007	
FROM A SILICIDE BURIED LAYER AND	United States	5643821	01-Jul-1997	Granted
APPLICATION				
METHOD FOR MAKING OHMIC				
CONTACT TO LIGHTLY DOPED ISLAND	United States	5895953	20-Apr-	Granted
FROM A SILICIDE BURIED LAYER AND	United States	3693933	1999	Granteu
APPLICATION				
TWO TRIM CURRENT SOURCE AND				
METHOD FOR A DIGITAL-TO-ANALOG	United States	5923209	13-Jul-1999	Granted
CONVERTER				
PROCESS FOR DOPING TWO LEVELS OF				
A DOUBLE POLY BIPOLAR TRANSISTOR	United States	5614422	25-Mar-	Granted
AFTER FORMATION OF SECOND POLY			1997	
LAYER				
PROCESS FOR DOPING TWO LEVELS OF			11 N	
A DOUBLE POLY BIPOLAR TRANSISTOR	United States	5686322	11-Nov-	Granted
AFTER FORMATION OF SECOND POLY LAYER			1997	
PROCESS FOR DOPING TWO LEVELS OF				
A DOUBLE POLY BIPOLAR TRANSISTOR	United States	5776814	07-Jul-1998	Granted
AFTER FORMATION OF SECOND POLY	Omicu States	3770014	01-101-1990	Granteu
ALTER FORWIATION OF SECOND POLY				

Title	Jurisdiction	Reg. No./ Serial No.	Filing Date / Reg. Date	Status
LAYER			-	
A DIFFERENTIAL LONGITUDINAL AMPLIFIER FOR SUBSCRIBER LINE INTERFACE CIRCUIT	United States	5649009	15-Jul-1997	Granted
SAMPLED DATA BIASING OF CONTINUOUS TIME INTEGRATED CIRCUIT	United States	5621355	15-Apr- 1997	Granted
SIGMA DELTA ANALOG TO DIGITAL CONVERTER WITH THREE POINT CALIBRATION APARATUS AND METHOD	United States	5598157	28-Jan-1997	Granted
INTEGRATED CIRCUIT AIR BRIDGE STRUCTURES AND METHOD OF FABRICATING SAME	United States	6211056	03-Apr- 2001	Granted
INTEGRATED CIRCUIT AIR BRIDGE STRUCTURES AND METHOD OF FABRICATING SAME	United States	6492705	10-Dec- 2002	Granted
NON-UNIFORMLY NITRIDED GATE OXIDE AND METHOD	United States	5650344	22-Jul-1997	Granted
NON-UNIFORMLY NITRIDED GATE OXIDE AND METHOD	United States	5808348	15-Sep- 1998	Granted
PLASMA CLEANING METHOD FOR IMPROVED DIE TO SUBSTRATE SOLDERABILITY	United States	5833758	10-Nov- 1998	Granted
DIRECT ETCH FOR THIN FILM RESISTOR USING A HARD MASK	United States	5547896	20-Aug- 1996	Granted
DEVICE AND METHOD FOR ENHANCING THERMAL AND HIGH FREQUENCY PERFORMANCE OF INTEGRATED CIRCUIT PACKAGES	United States	5581444	03-Dec- 1996	Granted
A BI-MOS DRIVER CIRCUIT WITH REDUCED POWER SUPPLY GLITCHES	United States	5576654	19-Nov- 1996	Granted
SURFACE MOUNT DIE BY HANDLE REPLACEMENT	United States	5807783	15-Sep- 1998	Granted
SURFACE MOUNT DIE BY HANDLE REPLACEMENT	United States	6114768	05-Sep- 2000	Granted
PRE-BOND CAVITY AIR BRIDGE	United States	5949144	07-Sep- 1999	Granted
CONFIGURATION DEPENDENT AUTO- BIASING OF BIPOLAR TRANSISTOR	United States	5625566	29-Apr- 1997	Granted
LID WAFER BOND PACKAGING AND MICROMACHINING	United States	5798557	25-Aug- 1998	Granted
LID WAFER BOND PACKAGING AND MICROMACHINING	United States	5915168	22-Jun- 1999	Granted

Title	Jurisdiction	Reg. No./ Serial No.	Filing Date / Reg. Date	Status
DEVICE AND METHOD FOR IMPROVING CORROSION RESISTANCE AND ETCH TOOL INTEGRITY IN DRY METAL ETCHING	United States	5830279	03-Nov- 1998	Granted
LEVEL SHIFTER WITH IMPROVED REJECTION OF VOLTAGE VARIATIONS	United States	5627489	06-May- 1997	Granted
SWITCH CONTROLLER AND METHOD	United States	5636274	03-Jun- 1997	Granted
HIGH VOLTAGE, JUNCTION ISOLATION SEMICONDUCTOR DEVICE HAVING DUAL CONDUCTIVITY TYPE BURIED REGIONS AND ITS PROCESS OF MANUFACTURE	United States	5567978	22-Oct- 1996	Granted
HIGH VOLTAGE, JUNCTION ISOLATION SEMICONDUCTOR DEVICE HAVING DUAL CONDUCTIVITY TYPE BURIED REGIONS AND ITS PROCESS OF MANUFACTURE	United States	5837553	17-Nov- 1998	Granted
BONDED WAFER	United States	5603779	18-Feb- 1997	Granted
BONDED WAFER	United States	5744852	28-Apr- 1998	Granted
FAST RECOVERY TEMPERATURE COMPENSATED PRECISION REFERENCE SOURCE	United States	5621307	15-Apr- 1997	Granted
HIGH EFFICIENCY QUASI-VERTICAL DMOS IN A CMOS OR BICMOS PROCESS	United States	5777362	07-Jul-1998	Granted
HIGH EFFICIENCY POWER MOS SWITCH	United States	5689129	18-Nov- 1997	Granted
HIGH EFFICIENCY POWER MOS SWITCH	United States	5973368	26-Oct- 1999	Granted
PILOT TRANSISTOR FOR QUASI- VERTICAL DMOS	United States	5684305	04-Nov- 1997	Granted
METHOD AND CIRCUIT FOR FAILSAFE SWITCH-HOOK DETECTION DURING FAULT IN A TELEPHONE SYSTEM	United States	5812658	22-Sep- 1998	Granted
CIRCUIT AND METHOD FOR LOOPBACK TEST AND ON-HOOK TRANSMISSION INTEGRATED INTO A TELEPHONE SUBSCRIBER LINE INTERFACE CIRCUIT	United States	5659570	19-Aug- 1997	Granted
LOCAL OXIDATION PROCESS FOR HIGH FIELD THRESHOLD APPLICATIONS	United States	5580816	03-Dec- 1996	Granted
IMPROVED DISCRETE PROGRAMMING	United States	5666083	09-Sep-	Granted

Title	Jurisdiction	Reg. No./ Serial No.	Filing Date	Status
METHODOLOY AND CIRCUIT FOR AN		9011011101	Reg. Date 1997	
ACTIVE TRANSCONDUCTANCE C-			1557	
FILTER				
STATISTICALLY BASED CURRENT GENERATOR CIRCUIT	United States	5701097	23-Dec- 1997	Granted
SEMICONDUCTOR PACKAGING	11 10 10	5005000	12-Oct-	
APPARATUS	United States	5965933	1999	Granted
SEMICONDUCTOR PACKAGING APPARATUS	United States	6114191	05-Sep- 2000	Granted
CRC GENERATION & DETECTION	TT 1 1 C	5704070	03-Mar-	
METHOD	United States	5724370	1998	Granted
METHOD OF SCALING THE OUTPUTS	United States	5526392	11-Jun-	Granted
OF A BINARY COUNTER MODIFICATION OF TIMING IN AN			1996 14-Oct-	
EMULATOR CIRCUIT AND METHOD	United States	5678030	1997	Granted
MULTIPLE USE TIMER AND METHOD				
FOR PULSE WIDTH GENERATION, ECHO FAILURE DETECTION, AND	United States	5661736	26-Aug-	Granted
RECEIVE PULSE WIDTH			1997	213111323
MEASUREMENT				
CIRCUIT AND METHOD FOR SYNCHRONIZING OUTPUTS OF TWO				
SIMULTANEOUSLY TRANSMITTING	United States	6108352	22-Aug- 2000	Granted
DEVICES IN A MULTIPLEXED			2000	
COMMUNICATION SYSTEM EFFICIENT BATTERY OPERATED				
INVERTER CIRCUIT FOR CAPACITIVE	Heitad States		11-Jun-	Crontod
LOADS SUCH AS	United States	5525869	1996	Granted
BATTERY OPERATED INVERTER				
CIRCUIT FOR CAPACITIVE LOADS SUCH	United States	5557175	17-Sep-	Granted
AS ELECTROLUMINESCENT LAMPS			1996	
INTEGRATED CIRCUIT WITH AN AIR BRIDGE HAVING A LID	United States	5825092	20-Oct- 1998	Granted
INTEGRATED CIRCUIT HAVING			1990	
ENHANCED TRANSIENT VOLTAGE	United States	5708549	13-Jan-1998	Granted
PROTECTION AND ASSOCIATED	Omica States	3700343	15 3411 1556	Grantea
METHODS MULTICHANNEL SIGMA-DELTA A/D			0.5	
CONVERTERS WITH IMPROVED	United States	5617090	01-Apr- 1997	Granted
THROUGHPUT			1337	
METHOD AND CIRCUIT FOR PREVENTING FORWARD BIAS OF A	United States	5675281	07-Oct-	Granted
PARASITIC DIODE IN AN INTEGRATED			1997	

Title	Jurisdiction	Reg. No./ Serial No.	Filing Date	Status
		Seriai No.	Reg. Date	
CIRCUIT				
ELECTRICALLY VARIABLE R/C	United States	5767757	16-Jun-	Granted
NETWORK AND METHOD	Cinica States	3707737	1998	Grantea
COMPLEMENTARY MULTIPLEXER				
WITH LOW DISABLED-OUTPUT	United States	5923207	13-Jul-1999	Granted
CAPACITANCE, AND METHOD				
COMPLEMENTARY MULTIPLEXER	TT 1. 1.0.		05-Sep-	
WITH LOW DISABLED-OUTPUT	United States	6114896	2000	Granted
CAPACITANCE, AND METHOD				
AUTOMATIC FAULT MONITORING	17 1 1 0		24-Jun-	
SYSTEM AND MOTOR CONTROL	United States	5642247	1997	Granted
SYSTEM INCORPORATING SAME				
COMPOSITION, AND METHOD FOR	17 10 10		24-Dec-	
USING SAME, FOR ETCHING METALLIC	United States	5587103	1996	Granted
ALLOYS FROM A SUBSTRATE				
ELECTROLUMINESCENT LAMP DRIVER	United States	5539707	23-Jul-1996	Granted
SYSTEM				
DEFECT CONTROL IN FORMATION OF	II	F750422	12-May-	Constant
DIELECTRICALLY ISOLATED	United States 5750432	1998	Granted	
SEMICONDUCTOR DEVICE REGIONS			16.84	
ELECTROSTATIC DISCHARGE	United States	5883414	16-Mar- 1999	Granted
PROTECTION DEVICE ELECTROSTATIC DISCHARGE				
PROTECTION DEVICE	United States	6051457	18-Apr- 2000	Granted
PROTECTION DEVICE			30-Jun-	
SEMI-INSULATING WAFER	United States	5773151	1998	Granted
METHOD OF MAKING A REFERENCE			11-Nov-	
CURRENT GENERATOR	United States	5686822	1997	Granted
ARRANGEMENT & METHOD FOR			1337	
IMPROVING ROOM-TEMPERATURE				
TESTABILITY OF CMOS INTEGRATED	United States	5696452	09-Dec-	Granted
CIRCUITS OPTIMIZED FOR CRYOGENIC			1997	
TEMPERATURE OPERATOR				
METHOD OF MANUFACTURING A			44.54	
PROGRAMMABLE HYBRID BALANCE	United States	5610093	11-Mar-	Granted
NETWORK			1997	
TESTING CIRCUIT FOR A CODEC	Haitad State	F71772C	10-Feb-	Cuarted
HYBRID BALANCE NETWORK	United States	5717736	1998	Granted
DIFFERENTIAL INTERPOLATION			21 Oct	
SWITCHED CAPACITOR FILTER AND	United States	5680072	21-Oct-	Granted
METHOD			1997	
TEMPERATURE INSENSITIVE BANDGAP				
VOLTAGE GENERATOR TRACKING	United States	5856742	05-Jan-1999	Granted
POWER SUPPLY VARIATIONS				

Title	Jurisdiction	Reg. No./ Serial No.	Filing Date / Reg. Date	Status
OFFSET ADJUSTMENT FOR FULLY DIFFERENTIAL AMPLIFIERS	United States	5736885	07-Apr- 1998	Granted
SIGN BIT INTEGRATOR AND METHOD	United States	5617473	01-Apr- 1997	Granted
METHOD OF BONDING WAFERS HAVING VIAS INCLUDING CONDUCTIVE MATERIAL	United States	5646067	08-Jul-1997	Granted
SURFACE MOUNTABLE INTEGRATED CIRCUIT WITH CONDUCTIVE VIAS	United States	5608264	04-Mar- 1997	Granted
INTEGRATED CIRCUIT WITH COAXIAL ISOLATION AND METHOD	United States	5814889	29-Sep- 1998	Granted
INTEGRATED CIRCUIT WITH EDGE CONNECTIONS AND METHOD	United States	5668409	16-Sep- 1997	Granted
SYSTEM FOR INTERCONNECTING STACKED INTEGRATED CIRCUITS	United States	5682062	28-Oct- 1997	Granted
WIDE COMMON MODE RANGE COMPARATOR AND METHOD	United States	5614852	25-Mar- 1997	Granted
WIDE COMMON MODE RANGE COMPARATOR AND METHOD	United States	5789949	04-Aug- 1998	Granted
INVERTED BJT CURRENT SOURCES/SINKS IN RF CIRCUITS AND METHODS	United States	5654662	05-Aug- 1997	Granted
PHASE METER AND METHOD OF PROVIDING A VOLTAGE INDICATIVE OF A PHASE DIFFERENCE	United States	5831423	03-Nov- 1998	Granted
UP-CONVERSION MECHANISM EMPLOYING SIDE LOBE-SELECTIVE PRE-DISTORTION FILTER AND FREQUENCY REPLICA-SELECTING BANDPASS FILTER RESPECTIVELY INSTALLED UPSTREAM AND DOWNSTREAM OF DIGITAL-TO- ANALOG CONVERTER	United States	5930301	27-Jul-1999	Granted
DC-TO-DC CONVERTER HAVING ENHANCED CONTROL FEATURES AND ASSOCIATED METHODS	United States	5793193	11-Aug- 1998	Granted
DC-TO-DC CONVERTER HAVING FAST OVER-CURRENT DETECTION AND ASSOCIATED METHODS	United States	5821740	13-Oct- 1998	Granted
DC-TO-DC CONVERTER HAVING CHARGE PUMP AND ASSOCIATED METHODS	United States	5808883	15-Sep- 1998	Granted
METHOD TO IMPROVE THE PEAK- CURRENT LIMIT IN SLOPE-	United States	5717322	10-Feb- 1998	Granted

1567510.05-New York Server 7A - MSW

PATENT REEL: 024337 FRAME: 0469

Title	Jurisdiction	Reg. No./ Serial No.	Filing Date / Reg. Date	Status
COMPENSATED, CURRENT-MODE DC/DC CONVERTERS				
METHOD & APPARATUS FOR RADIATION HARDENED ISOLATION	United States	5670413	23-Sep- 1997	Granted
COMMON MODE STABILIZING CIRCUIT AND METHOD	United States	5668468	16-Sep- 1997	Granted
CURRENT-CONTROLLED CARRIER TRACKING FILTER FOR IMPROVED SPURIOUS SIGNAL SUPPRESSION	United States	5953379	14-Sep- 1999	Granted
CURRENT-CONTROLLED CARRIER TRACKING FILTER FOR IMPROVED SPURIOUS SIGNAL SUPPRESSION	United States	6233293	15-May- 2001	Granted
CARRIER BUFFER HAVING CURRENT- CONTROLLED TRACKING FILTER FOR SPURIOUS SIGNAL SUPPRESSION	United States	5736903	07-Apr- 1998	Granted
DIGITALLY PROGRAMMABLE DIFFERENTIAL ATTENUATOR WITH TRACKING COMMON MODE REFERENCE	United States	5742204	21-Apr- 1998	Granted
INTERPOLATING DIGITAL TO ANALOG CONVERTER ARCHITECTURE FOR IMPROVED SPURIOUS SIGNAL SUPPRESSION	United States	5798724	29-Aug- 1998	Granted
CLOCK -CONTROLLED PRECISION MONOSTABLE CIRCUIT	United States	5920219	06-Jul-1999	Granted
CHARGE BASED FREQUENCY LOCKED LOOP AND METHOD	United States	5841324	24-Nov- 1998	Granted
REDUCED WIDTH, DIFFERENTIALLY DOPED VERTICAL JFET DEVICE	United States	5945699	31-Aug- 1999	Granted
PLANARIZATION METHOD BY THE USE OF PARTICLE DISPERSION AND SUBSEQUENT THERMAL FLOW	United States	5837603	17-Nov- 1998	Granted
A CIRCUIT FOR DRIVING AN ELECTROLUMINESCENT LAMP	United States	5677599	14-Oct- 1997	Granted
LOW DISTORTION CURRENT FEEDBACK AMPLIFIER WITH DYNAMIC BIASING	United States	5977829	02-Nov- 1999	Granted
SEMICONDUCTOR DEVICE WITH DOPED SEMICONDUCTOR AND DIELECTRIC TRENCH SIDEWALL LAYERS	United States	5856700	05-Jan-1999	Granted
FLAT POWER PACK	United States	6057612	02-May- 2000	Granted
PROCESS FOR FORMING A SELF- ALIGNED RAISED SOURCE/DRAIN MOS DEVICE AND DEVICE THEREFROM	United States	5804846	08-Sep- 1998	Granted

Title	Jurisdiction	Reg. No./ Serial No.	Filing Date / Reg. Date	Status
WAFER TRENCH ARTICLE AND PROCESS	United States	5933746	03-Aug- 1999	Granted
WAFER TRENCH ARTICLE AND PROCESS	United States	6365953	02-Apr- 2002	Granted
INTEGRATED CIRCUIT ANALOG-TO- DIGITAL CONVERTER AND ASSOCIATED CALIBRATION METHOD AND APPARATUS	United States	5771012	23-Jun- 1998	Granted
INTEGRATED CIRCUIT CONTAINING DEVICES DIELECTRICALLY ISOLATED AND JUNCTION ISOLATED FROM A SUBSTRATE	United States	5841169	24-Nov- 1998	Granted
DOUBLE DIFFUSED MOS DEVICE AND METHOD	United States	5817564	06-Oct- 1998	Granted
HIGH VOLTAGE PROTECTION CIRCUITS	United States	5663860	02-Mar- 1998	Granted
DIGITAL-TO-ANALOG CONVERTER HAVING ENHANCED CURRENT STEERING AND ASSOCIATED METHOD	United States	5790060	04-Aug- 1998	Granted
DEEP TRENCH ETCH ON BONDED SILICON WAFER	United States	5914280	22-Jun- 1999	Granted
DEEP TRENCH ETCH ON BONDED SILICON WAFER	United States	6198150	06-Mar- 2001	Granted
P COLLECTOR HV PMOS SWITCH VT ADJUSTED SOURCE	United States	5770880	23-Jun- 1998	Granted
RADIATION HARDENED DIELECTRIC FOR EEPROM	United States	5808353	15-Sep- 1998	Granted
RADIATION HARDENED DIELECTRIC FOR EEPROM	United States	6130172	10-Oct- 2000	Granted
NETWORK FOR IMPROVING ELETRO- MAGNETIC INTERFERENCE RESPONSE	United States	5920224	06-Jul-1999	Granted
NETWORK FOR IMPROVING ELETRO- MAGNETIC INTERFERENCE RESPONSE	United States	6091274	18-Jul-2000	Granted
RECONFIGURABLE FILTER SYSTEM	United States	5719326	17-Feb- 1998	Granted
KNOCK SENSOR SYSTEM FOR DETECTING AND RESPONDING TO A DISCONNECT CONDITION (AS AMENDED)	United States	5942677	24-Aug- 1999	Granted
COMPARATOR WITH SMALL SIGNAL SUPPRESSION CIRCUITRY	United States	5892375	06-Apr- 1999	Granted
COMPARATOR WITH SMALL SIGNAL SUPPRESSION CIRCUITRY	United States	6060913	09-May- 2000	Granted
PIVOT SAMPLE BLOCK CROSS-SECTION	United States	5830048	03-Nov-	Granted

Title	Jurisdiction	Reg. No./ Serial No.	Filing Date / Reg. Date	Status
TOOL			1998	
MULTILAYER MICROTIP PROBE AND METHOD	United States	5892223	06-Apr- 1999	Granted
INTERPOLATOR USING A PLURALITY OF POLYNOMIAL EQUATIONS AND ASSOCIATED METHODS	United States	5949695	07-Sep- 1999	Granted
RE-SAMPLING CIRCUIT AND ASSOCIATED METHOD	United States	5764113	09-Jun- 1998	Granted
ADJUSTABLE PHASE CLOCK CIRCUIT USING THE SAME AND RELATED METHODS	United States	5990713	23-Nov- 1999	Granted
INTEGRATED CIRCUIT CHIP STRUCTURE FOR IMPROVED PACKAGING	United States	5900643	04-May- 1999	Granted
METHOD AND APPARATUS FOR CALIBRATING INTEGRATED CIRCUIT ANALOG-TO-DIGITAL CONVERTERS	United States	5861826	19-Jan-1999	Granted
ESD LOCATING APPARATUS AND METHOD	United States	6064340	16-May- 2000	Granted
INTEGRATED CIRCUIT WITH THIN FILM RESISTORS AND A METHOD FOR CO- PATTERNING THIN FILM RESISTORS WITH DIFFERENT COMPOSITONS	United States	5976944	02-Nov- 1999	Granted
DRIVER CIRCUIT PROVIDING CONTROLLABLE BATTERY OVERLOAD PROTECTION	United States	5744984	28-Apr- 1998	Granted
RING GENERATOR	United States	6167131	26-Dec- 2000	Granted
METHOD FOR FORMING COMPLIMENTARY WELLS AND SELF- ALIGNED TRENCH WITH A SINGLE MASK	United States	5956583	21-Sep- 1999	Granted
INVERTED THIN FILM RESISTOR AND METHOD FOR MANUFACTURE	United States	6034411	07-Mar- 2000	Granted
INVERTED THIN FILM RESISTOR AND METHOD FOR MANUFACTURE	United States	6121105	19-Sep- 2000	Granted
PROCESSOR CONTROLLED ANALOG- TO-DIGITAL CONVERTER CIRCUIT	United States	5892472	06-Apr- 1999	Granted
DC-DC CONVERTER HAVING DYNAMIC REGULATOR WITH CURRENT SOURCING AND SINKING MEANS	United States	5926384	20-Jul-1999	Granted
HERMETIC THIN PACK SEMICONDUCTOR DEVICE	United States	6157076	05-Dec- 2000	Granted
METHOD OF CREATING A SOLDERABLE METAL LAYER ON GLASS OR CERAMIC	United States	6159663	20-Dec- 2000	Granted

Title	Jurisdiction	Reg. No./ Serial No.	Filing Date / Reg. Date	Status
SCHMITT TRIGGER-CONFIGURED ESD PROTECTION CIRCUIT	United States	5978192	02-Nov- 1999	Granted
DEFECT GETTERING BY INDUCED STRESS	United States	5929508	27-Jul-1999	Granted
DEFECT GETTERING BY INDUCED STRESS	United States	6274460	14-Aug- 2001	Granted
LOOP IMPEDANCE MEASURING APPARATUS AND METHOD FOR SUBSCRIBER LOOP INTERFACE CIRCUITS	United States	6434232	13-Aug- 2002	Granted
PROGRAMMABLE SUBSCRIBER LOOP INTERFACE CIRCUIT AND METHOD	United States	6665398	16-Dec- 2003	Granted
APPARATUS AND METHOD FOR TESTING SUBSCRIBER LOOP INTERFACE CIRCUITS	United States	6519322	11-Feb- 2003	Granted
APPARATUS AND METHOD FOR TESTING SUBSCRIBER LOOP INTERFACE CIRCUITS	United States	7020248	28-Mar- 2006	Granted
RF COMMUNICATIONS SYSTEM OPERABLE IN THE PRESENCE OF A REPETITIVE INTERFERENCE SOURCE AND RELATED METHODS	United States	6006071	21-Dec- 1999	Granted
BATTERY SWITCHING SUBSCRIBER LOOP INTERFACE CIRCUIT	United States	6233335	15-May- 2001	Granted
CONSTANT SLEW-RATE AMPLIFIER	United States	6040707	21-Mar- 2000	Granted
DIGITAL-TO-ANALOG CONVERTER INCLUDING CURRENT CELL MATRIX WITH ENHANCED LINEARITY AND ASSOCIATED METHODS	United States	5949362	07-Sep- 1999	Granted
SAMPLE-AND-HOLD CIRCUIT HAVING REDUCED SUBTHRESHOLD CONDUCTION EFFECTS AND RELATED METHODS	United States	6069502	30-May- 2000	Granted
SAMPLE AND HOLD CIRCUIT HAVING REDUCED AMPLIFIER OFFSET EFFECTS AND RELATED METHODS	United States	6016067	18-Jan-2000	Granted
CO-PATTERNING THIN-FILM RESISTORS OF DIFFERENT COMPOSITIONS WITH A CONDUCTIVE HARD MASK AND METHOD FOR SAME	United States	6441447	27-Aug- 2002	Granted
SC-2 BASED PRE-THERMAL TREATMENT WAFER CLEANING PROCESS	United States	5932022	03-Aug- 1999	Granted

Title	Jurisdiction	Reg. No./ Serial No.	Filing Date / Reg. Date	Status
IGBT GATE DRIVE CIRCUIT WITH SHORT CIRCUIT PROTECTION	United States	6275093	14-Aug- 2001	Granted
DECAPSULATING METHOD AND APPARATUS FOR INTEGRATED CIRCUIT PACKAGES	United States	6054012	25-Apr- 2000	Granted
DECAPSULATING METHOD AND APPARATUS FOR INTEGRATED CIRCUIT PACKAGES	United States	6457506	01-Oct- 2002	Granted
DEVICES WITH PATTERNED WELLS AND METHOD FOR FORMING SAME	United States	6555894	29-Apr- 2003	Granted
SUBSAMPLING DIGITIZER-BASED FREQUENCY SYNTHESIZER	United States	6603362	05-Aug- 2003	Granted
MULTIPLE OUTPUT DC-TO-DC CONVERTER HAVING ENHANCED NOISE MARGIN AND RELATED METHODS	United States	6058030	02-May- 2000	Granted
ANALOG-TO-DIGITAL CONVERTER HAVING ENHANCED ACCURACY GAIN STAGE, AND ASSOCIATED DEVICES AND METHODS	United States	6107950	22-Aug- 2000	Granted
SAMPLE-AND-HOLD CIRCUIT HAVING REDUCED PARASITIC DIODE EFFECTS AND RELATED METHODS	United States	6002277	14-Dec- 1999	Granted
PARASITIC CURRENT BARRIERS	United States	6278186	21-Aug- 2001	Granted
DIGITAL-TO-ANALOG CONVERTER HAVING ENHANCED ACCURACY AND ASSOCIATED METHODS	United States	6118398	12-Sep- 2000	Granted
LINEAR VOLTAGE REGULATOR COMPATIBLE WITH BIPOLAR AND MOSFET PASS DEVICES AND ASSOCIATED METHODS	United States	6005303	21-Dec- 1999	Granted
DEVICE CONTAINING SAMPLE PREPARATION SITES FOR TRANSMISSION ELECTRON MICROSCOPIC ANALYSIS AND PROCESSES OF FORMATION AND USE	United States	6140652	31-Oct- 2000	Granted
BRUSHLESS MULTIPASS SILICON WAFER CLEANING PROCESS FOR POST CHEMICAL MECHANICAL POLISHING USING IMMERSION	United States	6526995	04-Mar- 2003	Granted
METHOD FOR MAKING A DIFFUSED BACK-SIDE LAYER ON A BONDED- WAFER WITH A THICK BOND OXIDE	United States	6362075	26-Mar- 2002	Granted

1567510.05-New York Server 7A - MSW

PATENT REEL: 024337 FRAME: 0474

Title	Jurisdiction	Reg. No./ Serial No.	Filing Date / Reg. Date	Status
METHOD FOR MAKING A DIFFUSED BACK-SIDE LAYER ON A BONDED- WAFER WITH A THICK BOND OXIDE	United States	7605052	20-Oct- 2009	Granted
BONDED SUBSTRATE FOR AN INTEGRATED CIRCUIT CONTAINING A PLANAR INTRINSIC GETTERING ZONE (as amended)	United States	6255195	03-Jul-2001	Granted
USE OF BARRIER REFRACTIVE OR ANTI- REFLECTIVE LAYER TO IMPROVED LASER TRIM CHARACTERISTICS OF THIN FILM RESISTORS	United States	6259151	10-Jul-2001	Granted
ACCESSING MAIN ATX OUTPUTS WITHOUT MONITORING ALL OUTPUTS	United States	6882942	19-Apr- 2005	Granted
METHOD OF FORMING RESISTIVE CONTACTS ON INTEGRATED CIRCUITS WITH MOBILITY SPOILING IONS INCLUDING HIGH RESISTIVE CONTACTS AND LOW RESISTIVITY SILICIDE CONTACTS	United States	6403472	11-Jun- 2002	Granted
LINE CIRCUIT APPARATUS FOR SUPPLYING POWER TO A TELEPHONE SET IN TELECOMMUNICATION SYSTEMS	United States	6137189	24-Oct- 2000	Granted
METHOD OF MANUFACTURING A PLATED ELECTRONIC TERMINATION	United States	7174626	13-Feb- 2007	Granted
EDGE TERMINATION FOR SILICON POWER DEVICES	United States	6242784	05-Jun- 2001	Granted
EDGE TERMINATION FOR SILICON POWER DEVICES	United States	6534347	18-Mar- 2003	Granted
EDGE TERMINATION FOR SILICON POWER DEVICES	United States	6759719	06-Jul-2004	Granted
EDGE TERMINATION FOR SILICON POWER DEVICES	United States	7166866	23-Jan-2007	Granted
LOW TEMPERATURE COEFFICIENT RESISTOR (TCRL)	United States	6351021	26-Feb- 2002	Granted
LOW TEMPERATURE COEFFICIENT RESISTOR (TCRL)	United States	6798024	28-Sep- 2004	Granted
LOW TEMPERATURE COEFFICIENT RESISTOR (TCRL)	United States	6812108	02-Nov- 2004	Granted
CURRENT MODE DC/DC CONVERTER WITH CONTROLLED OUTPUT IMPEDANCE	United States	RE38780	23-Aug- 2005	Granted
CURRENT MODE DC/DC CONVERTER	United States	RE38906	06-Dec-	Granted

Title	Jurisdiction	Reg. No./ Serial No.	Filing Date	Status
		Seriai No.	Reg. Date	
WITH CONTROLLED OUTPUT IMPEDANCE			2005	
BACKWARDS DRIVABLE MOS OUTPUT DRIVER	United States	6351158	26-Feb- 2002	Granted
BACKWARDS DRIVABLE MOS OUTPUT DRIVER	United States	6362665	26-Mar- 2002	Granted
METHODS TO CONTROL THE DROOP WHEN POWERING DUAL MODE PROCESSORS AND ASSOCIATED CIRCUITS	United States	6680604	20-Jan-2004	Granted
METHODS TO CONTROL THE DROOP WHEN POWERING DUAL MODE PROCESSORS AND ASSOCIATED CIRCUITS	United States	6919715	19-Jul-2005	Granted
BREAKDOWN IMPROVEMENT METHOD AND STRUCTURE FOR LATERAL EXTENSION MOS DEVICE	United States	6614088	02-Sep- 2003	Granted
PRECISION, LOW-POWER CURRENT- SENSE TRANSMISSION CHANNEL FOR SUBSCRIBER LINE INTERFACE CIRCUIT, PROGRAMMABLE WITH SINGLE ENDED IMPEDANCES AND CAPABLE OF EXHIBITING A VOLTAGE SENSE RESPONSE	United States	6873703	29-Mar- 2005	Granted
MECHANISM FOR PREVENTING CLIPPING OF PULSE METERING SIGNALS IN TELEPHONE LINE CARD CHANNELS	United States	6829353	07-Dec- 2004	Granted
MECHANISM FOR MEASURING RESISTANCE OF TELEPHONE SUBSCRIBER LINE AND GENERATING MEASUREMENT AS PULSE WIDTH OF PERIODIC WAVEFORM	United States	6504927	07-Jan-2003	Granted
MECHANISM FOR GENERATING PRECISION USER-PROGRAMMABLE PARAMETERS IN ANALOG INTEGRATED CIRCUIT	United States	6407621	18-Jun- 2002	Granted
PRECISION, LOW-POWER TRANSIMPEDANCE CIRCUIT WITH DIFFERENTIAL CURRENT SENSE INPUTS AND SINGLE ENDED VOLTAGE OUTPUT	United States	6292033	18-Sep- 2001	Granted
MECHANISM FOR MINIMIZING UNDESIRABLE EFFECTS OF PARASITIC COMPONENTS IN INTEGRATED	United States	6396331	28-May- 2002	Granted

Title	Jurisdiction	Reg. No./ Serial No.	Filing Date / Reg. Date	Status
CIRCUITS				
TRANSCONDUCTANCE AMPLIFIER CIRCUIT	United States	6411163	25-Jun- 2002	Granted
CURRENT MIRROR-EMBEDDED LOW- PASS FILTER FOR SUBSCRIBER LINE INTERFACE CIRCUIT APPLICATIONS	United States	6545540	08-Apr- 2003	Granted
CONTROLLED SWITCHING MECHANISM FOR ACCOMPLISHING SOFT POLARITY REVERSAL, RING-TRIP FILTERING, AND LINE VOLTAGE MEASUREMENTS IN A SUBSCRIBER LINE INTERFACE CIRCUIT USING COMMON CAPACITOR	United States	6862352	01-Mar- 2005	Granted
TRANSISTOR BASE CURRENT ERROR CORRECTION SCHEME FOR LOW OVERHEAD VOLTAGE APPLICATIONS	United States	6344776	05-Feb- 2002	Granted
BIASING ARRANGEMENT FOR OPTIMIZING DC FEED CHARACTERISITICS FOR SUBSCRIBER LINE INTERFACE CIRCUIT	United States	6829354	07-Dec- 2004	Granted
OSCILLATOR HAVING REDUCED SENSITIVITY TO SUPPLY VOLTAGE CHANGES	United States	6552622	22-Apr- 2003	Granted
CASCADABLE, HIGH EFFICIENCY CHARGE PUMP CIRCUIT AND RELATED METHODS	United States	6249446	19-Jun- 2001	Granted
DC TO DC CONVERTER METHOD AND CIRCUITRY	United States	6433525	13-Aug- 2002	Granted
DC TO DC CONVERTER METHOD AND CIRCUITRY	United States	6621256	16-Sep- 2003	Granted
MATCHED IMPEDANCE BONDING TECHNIQUE IN HIGH-SPEED INTEGRATED CIRCUITS	United States	6646343	11-Nov- 2003	Granted
N-WAY CIRCULAR PHASE INTERPOLATOR FOR GENERATING A SIGNAL HAVING ARBITRARY PHASE	United States	6329859	11-Dec- 2001	Granted
HIGH SPEED DIFFERENTIAL SIGNAL DETECTION	United States	6727732	27-Apr- 2004	Granted
PHASED-LOCKED LOOP WITH ANALOG PHASE ROTATOR	United States	6931089	16-Aug- 2005	Granted
HIGH-SPEED BIT-PATTERN DETECTOR	United States	6792061	21-Aug- 2000	Granted
FLOATING GATE ANALOG VOLTAGE LEVEL SHIFT CIRCUIT AND METHOD	United States	7432744	07-Oct- 2008	Granted

Title	Jurisdiction	Reg. No./ Serial No.	Filing Date / Reg. Date	Status
FOR PRODUCING A VOLTAGE REFERENCE THAT OPERATES ON A LOW SUPPLY VOLTAGE				
BREAKDOWN DIODE STRUCTURE	United States	5448100	05-Sep- 1995	Granted
PROGRAMMABLE CHIP ENABLE LOGIC FUNCTION	United States	5303181	12-Apr- 1994	Granted
BIAS CURRENT MODULATION FOR DIFFERENTIALLY COUPLED TRANSISTOR CIRCUIT	United States	5214329	25-May- 1993	Granted
METHOD OF MAKING SILICON MESFET FOR DIELECTRICALLY ISOLATED INTEGRATED CIRCUITS	United States	5014108	07-May- 1991	Granted
METHOD OF MAKING SILICON MESFET FOR DIELECTRICALLY ISOLATED INTEGRATED CIRCUITS	United States	5306650	26-Apr- 1994	Granted
WAFER BONDING USING TRAPPED OXIDIZING VAPOR	United States	5266135	30-Nov- 1993	Granted
WAFER BONDING USING TRAPPED OXIDIZING VAPOR	United States	5334273	02-Aug- 1994	Granted
PLURAL BIT RECORDING MULTIPLIER	United States	5262976	16-Nov- 1993	Granted
RESOURCE ACCESS SECURITY SYSTEM FOR CONTROLLING ACCESS TO RESOURCES OF A DATA PROCESSING SYSTEM	United States	5469556	21-Nov- 1995	Granted
HIGH VOLTAGE PROTECTION USING SCRS	United States	5359211	25-Oct- 1994	Granted
HIGH VOLTAGE PROTECTION USING SCRS	United States	5670799	23-Sep- 1997	Granted
SELF-ALIGNED CHANNEL STOP FOR TRENCH-ISOLATED ISLAND	United States	5248894	28-Sep- 1993	Granted
SELF-ALIGNED CHANNEL STOP FOR TRENCH-ISOLATED ISLAND	United States	5436189	25-Jul-1995	Granted
TRENCH CONDUCTOR AND CROSSUNDER ARCHITECTURE	United States	5057895	15-Oct- 1991	Granted
TRENCH CONDUCTOR AND CROSSUNDER ARCHITECTURE	United States	5283461	01-Feb- 1994	Granted
DSP ADDRESS SEQUENCER	United States	5265225	23-Nov- 1993	Granted
THIN, DIELECTRICALLY ISOLATED ISLAND RESIDENT TRANSISTOR STRUCTURE HAVING LOW COLLECTOR RESISTANCE	United States	5327006	05-Jul-1994	Granted

78.5		Reg. No./	Filing Date	g
Title	Jurisdiction	Serial No.	Reg. Date	Status
BAND-GAP REFERENCE	United States	5081410	14-Jan-1992	Granted
LOW OFFSET UNITY GAIN BUFFER AMPLIFIER	United States	5218321	08-Jun- 1993	Granted
SEMICONDUCTOR STRUCTURE WITHIN DI ISLANDS HAVING BOTTOM PROJECTION FOR CONTROLLING DEVICE CHARACTERISTICS	United States	5306944	26-Apr- 1994	Granted
VOLTAGE DIVIDER AND USE AS BIAS NETWORK FOR STACKED TRANSISTORS	United States	5233289	03-Aug- 1993	Granted
VOLTAGE DIVIDER AND USE AS BIAS NETWORK FOR STACKED TRANSISTORS	United States	5493207	20-Feb- 1996	Granted
CURRENT MIRROR CIRCUIT WITH CASCODED BIPOLAR TRANSISTORS.	United States	5248932	28-Sep- 1993	Granted
METHOD AND APPARATUS FOR TESTING LEAD BONDS AND DETECTING FAILURE	United States	5085084	04-Feb- 1992	Granted
PROCESS FOR FORMING TWIN WELL CMOS INTEGRATED CIRCUITS	United States	5429958	04-Jul-1995	Granted
SOI WAFER WITH SIGE	United States	5218213	08-Jun- 1993	Granted
SOI WAFER WITH SIGE	United States	5240876	31-Aug- 1993	Granted
FAST TURN-OFF THYRISTOR STRUCTURE	United States	5086242	04-Feb- 1992	Granted
BURIED ZENER DIODE HAVING AUXILIARY ZENER JUNCTION ACCESS PATH	United States	5241213	31-Aug- 1993	Granted
RESISTOR STRUCTURE AND METHOD OF FABRICATION	United States	5200733	06-Apr- 1993	Granted
IMPROVED GRADED COLLECTOR FOR INDUCTIVE LOADS	United States	5311054	10-May- 1994	Granted
IMPROVED GRADED COLLECTOR FOR INDUCTIVE LOADS	United States	5397714	14-Mar- 1995	Granted
PUNCH THROUGH DIODES AND APPLICATIONS	United States	5929503	27-Jul-1999	Granted
PUNCH THROUGH DIODES AND APPLICATIONS	United States	5929502	27-Jul-1999	Granted
STACKED CONFIGURATION FOR INTEGRATED CIRCUITS DEVICES	United States	5117282	26-May- 1992	Granted
STACKED CONFIGURATION FOR INTEGRATED CIRCUITS DEVICES	United States	5228192	20-Jul-1993	Granted
NONCANONIC FULLY SYSTOLIC LMS ADAPTIVE ARCHITECTURE	United States	5450339	12-Sep- 1995	Granted
FOLD AND DECIMATE FILTER	United States	5258939	02-Nov-	Granted

Title	Jurisdiction	Reg. No./ Serial No.	Filing Date / Reg. Date	Status
ARCHITECTURE			1993	
METHOD OF LASER TRIMMING	United States	5096850	17-Mar- 1992	Granted
METHOD OF LASER TRIMMING	United States	5235205	10-Aug- 1993	Granted
DECIMATING FILTER	United States	5206821	27-Apr- 1993	Granted
DECIMATING FILTER	United States	5341335	23-Aug- 1994	Granted
SEMICONDUCTOR ACCELEROMETER AND METHOD OF ITS MANUFACTURE	United States	5429993	04-Jul-1995	Granted
SEMICONDUCTOR ACCELEROMETER AND METHOD OF ITS MANUFACTURE	United States	5656512	12-Aug- 1997	Granted
QUADRATURE FILTER WITH REAL CONVERSION	United States	5515402	07-May- 1996	Granted
TELEPHONE SUBSCRIBER LINE CIRCUIT, COMPONENTS AND METHODS	United States	5745563	28-Apr- 1998	Granted
POWER DRIVER CIRCUIT	United States	5504449	02-Apr- 1996	Granted
STATIC ELECTRICITY DISPERSANT	United States	5289336	22-Feb- 1994	Granted
BIASING OF ISLAND-SURROUNDING MATERIAL TO SUPPRESS REDUCTION OF BREAKDOWN VOLTAGE DUE TO FIELD PLATE ACTING ON BURIED LAYER/ISLAND JUNCTION BETWEEN HIGH AND LOW IMPURITY CONCENTRATION REGIONS	United States	5744851	28-Apr- 1998	Granted
BIASING OF ISLAND-SURROUNDING MATERIAL TO SUPPRESS REDUCTION OF BREAKDOWN VOLTAGE DUE TO FIELD PLATE ACTING ON BURIED LAYER/ISLAND JUNCTION BETWEEN HIGH AND LOW IMPURITY CONCENTRATION REGIONS	United States	6184565	06-Feb- 2001	Granted
METHOD AND DEVICE IN WHICH BOTTOMING A WELL IN A DIELECTRICALLY ISOLATED ISLAND IS ASSURED	United States	5270569	14-Dec- 1993	Granted
METHOD AND DEVICE IN WHICH BOTTOMING A WELL IN A DIELECTRICALLY ISOLATED ISLAND IS ASSURED	United States	5438221	01-Aug- 1995	Granted
METHOD AND DEVICE IN WHICH	United States	5602054	11-Feb-	Granted

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PATENT REEL: 024337 FRAME: 0480

Title	Jurisdiction	Reg. No./	Filing Date	Status
ATIAL	Jurisaiction	Serial No.	Reg. Date	Giutas
BOTTOMING A WELL IN A DIELECTRICALLY ISOLATED ISLAND IS ASSURED			1997	
PRINT BAND CLEANER	United States	5220868	22-Jun- 1993	Granted
NEGATIVE BIASING OF ISOLATION TRENCH FILL TO ATTRACT MOBILE POSITIVE IONS AWAY FROM BIPOLAR DEVICE REGIONS	United States	6051474	18-Apr- 2000	Granted
BONDED WAFER PROCESSING	United States	5780311	14-Jul-1998	Granted
BONDED WAFER PROCESSING	United States	5801084	01-Sep- 1998	Granted
SYMMETRIC, HIGH SPEED, VOLTAGE SWITCHING CIRCUIT POSSESSING REVERSE VOLTAGE APPLICATION IMMUNITY	United States	5302859	12-Apr- 1994	Granted
DIFFERENTIAL VOLTAGE FOLLOWER	United States	5382916	17-Jan-1995	Granted
DIFFERENTIAL VOLTAGE FOLLOWER	United States	5471131	28-Nov- 1995	Granted
ANALOG-TO-DIGITAL CONVERTER AND METHOD OF FABRICATION	United States	5369309	29-Nov- 1994	Granted
ANALOG-TO-DIGITAL CONVERTER AND METHOD OF FABRICATION	United States	5631599	20-May- 1997	Granted
ANALOG-TO-DIGITAL CONVERTER AND METHOD OF FABRICATION	United States	5659261	19-Aug- 1997	Granted
ANALOG-TO-DIGITAL CONVERTER AND METHOD OF FABRICATION	United States	5682111	28-Oct- 1997	Granted
ANALOG-TO-DIGITAL CONVERTER AND METHOD OF FABRICATION	United States	5994755	30-Nov- 1999	Granted
ANALOG-TO-DIGITAL CONVERTER AND METHOD OF FABRICATION	United States	6329260	11-Dec- 2001	Granted
ANALOG-TO-DIGITAL CONVERTER	United States	5481129	02-Jan-1996	Granted
BICMOS DEVICES	United States	5851864	22-Dec- 1998	Granted
BICMOS DEVICES	United States	5856695	05-Jan-1999	Granted
HI SPEED BIPOLAR DIGITAL LOGIC GATE ARCHITECTURE	United States	5229661	20-Jul-1993	Granted
SILICON ON DIAMOND CIRCUIT STRUCTURE	United States	5561303	01-Oct- 1996	Granted
METHOD OF FORMING ISLAND WITH POLYSILICON-FILLED TRENCH ISOLATION	United States	5217919	08-Jun- 1993	Granted
PRECISION VOLTAGE REFERENCE CIRCUIT	United States	5300877	05-Apr- 1994	Granted

Title	Jurisdiction	Reg. No./ Serial No.	Filing Date / Reg. Date	Status
REDUCED SEMICONDUCTOR SIZE PACKAGE	United States	5434357	18-Jul-1995	Granted
SELECTIVE RECRYSTALLIZATION TO REDUCE P-CHANNEL TRANSISTOR LEAKAGE IN SILICON-ON-SAPPHIRE CMOS RADIATION HARDENED IC's.	United States	5298434	29-Mar- 1994	Granted
SELECTIVE RECRYSTALLIZATION TO REDUCE P-CHANNEL TRANSISTOR LEAKAGE IN SILICON-ON-SAPPHIRE CMOS RADIATION HARDENED IC's.	United States	5391903	21-Feb- 1995	Granted
SINE/COSINE GENERATOR AND METHOD	United States	5276633	04-Jan-1994	Granted
SINE/COSINE GENERATOR AND METHOD	United States	RE36388	09-Nov- 1999	Granted
DIGITAL DOWN CONVERTER AND METHOD	United States	5493581	20-Feb- 1996	Granted
DIGITAL DOWN CONVERTER AND METHOD	United States	5570392	29-Oct- 1996	Granted
DIGITAL DOWN CONVERTER AND METHOD	United States	5617344	01-Apr- 1997	Granted
DIGITAL DOWN CONVERTER AND METHOD	United States	5633815	27-May- 1997	Granted
DIGITAL DOWN CONVERTER AND METHOD	United States	5757794	26-May- 1998	Granted
FORMATION OF DUAL POLARITY SOURCE/DRAIN EXTENSIONS IN LATERAL COMPLEMENTARY CHANNEL MOS ARCHITECTURES	United States	5338960	16-Aug- 1994	Granted
INTEGRATION OF HIGH VOLTAGE LATERAL CMOS DEVICES IN LOW VOLTAGE MOS ARCHITECTURE USING CMOS COMPATIBLE PROCESS STEPS	United States	5322804	21-Jun- 1994	Granted
INTEGRATION OF HIGH VOLTAGE LATERAL CMOS DEVICES IN LOW VOLTAGE MOS ARCHITECTURE USING CMOS COMPATIBLE PROCESS STEPS	United States	5541435	30-Jul-1996	Granted
INTEGRATION OF HIGH VOLTAGE LATERAL CMOS DEVICES IN LOW VOLTAGE MOS ARCHITECTURE USING CMOS COMPATIBLE PROCESS STEPS	United States	5622878	22-Apr- 1997	Granted
INTEGRATION OF HIGH VOLTAGE LATERAL CMOS DEVICES IN LOW VOLTAGE MOS ARCHITECTURE USING CMOS COMPATIBLE PROCESS STEPS	United States	5650658	22-Jul-1997	Granted

Title	Jurisdiction	Reg. No./ Serial No.	Filing Date / Reg. Date	Status
A DIGITAL DECIMATING FILTER WITH VIRTUAL REGISTER SPACE AND VARIABLE DECIMATION RATES	United States	5455782	03-Oct- 1995	Granted
SOI CMOS DEVICE HAVING DIFFERENTIALLY DOPED BODY EXTENSION FOR PROVIDING IMPROVED BACKSIDE LEAKAGE CHANNEL STOP	United States	5293052	08-Mar- 1994	Granted
SEMICONDUCTOR ROM DEVICE AND METHOD	United States	5440506	08-Aug- 1995	Granted
SEMICONDUCTOR ROM DEVICE AND METHOD	United States	5544095	06-Aug- 1996	Granted
SEMICONDUCTOR ROM DEVICE AND METHOD	United States	5563834	08-Oct- 1996	Granted
SEMICONDUCTOR ROM DEVICE AND METHOD	United States	5586072	17-Dec- 1996	Granted
SEMICONDUCTOR ROM DEVICE AND METHOD	United States	5650971	22-Jul-1997	Granted
REDUCTION OF BIPOLAR GAIN AND IMPROVEMENT IN SNAP BACK SUSTAINING VOLTAGE IN SOI FIELD EFFECT TRANSISTOR	United States	5315144	24-May- 1994	Granted
STRESS RELIEF TECHNIQUE OF REMOVING OXIDE FROM SURFACE OF TRENCH-PATTERNED SEMICONDUCTOR-ON-INSULATOR STRUCTURE	United States	5270265	14-Dec- 1993	Granted
HALF BAND FILTER AND METHOD	United States	5548542	20-Aug- 1996	Granted
HALF BAND FILTER AND METHOD	United States	5574671	12-Nov- 1996	Granted
REDUCED TEMPERATURE SUPPRESSION OF VOLATILIZATION OF PHOTOEXCITED HALOGEN REACT PRODUCTS FROM SILICON WAFER	United States	5352327	04-Oct- 1994	Granted
DECOUPLING TOOL MECHANISM FOR ELECTRICAL CONNECTORS	United States	5312262	17-May- 1994	Granted
SEU-IMMUNE LATCH FOR GATE ARRAY STANDARD CELL AND OTHER ASIC APPLICATIONS	United States	5311070	10-May- 1994	Granted
METHOD FOR FORMING RECESSED OXIDE ISOLATION CONTAINING DEEP AND SHALLOW TRENCHES	United States	5382541	17-Jan-1995	Granted
METHOD FOR FORMING RECESSED	United States	5504033	02-Apr-	Granted

OXIDE ISOLATION CONTAINING DEEP AND SHALLOW TRENCHES GAS PHASE CHEMICAL REDUCTION OF METALLIC BRANDING LAYER OF ELECTRONIC CIRCUIT PACKAGE FOR DEPOSITION OF BRANDING INK BONDED WAFER PROCESSING United States BONDED WAFER PROCESSING United States United States S728624 BONDED WAFER PROCESSING United States United States United States Trench Isolation Stress Relief United States 1996 United States 18-Jan-1994 Granted Granted 1994 Granted 1996 Granted 1996 Granted 1996 Granted 1996 Granted 1996 Granted 1996 United States 10-Bender 1996 Granted 1996 Granted 1996 Granted 1996 Granted 1996 Granted 1997 Granted 1998 Granted 1996 Granted 1999 Granted 1996 Granted	Title	Jurisdiction	Reg. No./	Filing Date	Status
AND SHALLOW TRENCHES GAS PHASE CHEMICAL REDUCTION OF METALLIC BRANDING LAYER OF ELECTRONIC CIRCUIT PACKAGE FOR DEPOSITION OF BRANDING INK BONDED WAFER PROCESSING BONDED WAFER PROCESSING United States S362667 BONDED WAFER PROCESSING United States S517047 BONDED WAFER PROCESSING United States United States S728624 United States CURING OF A TUNGSTEN FILAMENT IN AN ION IMPLANTER ELECTROSTATIC DISCHARGE PROTECTION SILICON GLASS-BONDED WAFERS United States United States S729038 IT-Mar-1994 Granted Granted Granted United States S370568 Granted SILICON GLASS-BONDED WAFERS United States S729038 IT-Mar-1995 Granted SILICON GLASS-BONDED WAFERS United States S729038 IT-Mar-1995 Granted SILICON GLASS-BONDED WAFERS United States S729038 IT-Mar-1999 Granted SILICON GLASS-BONDED WAFERS United States S994204 S0-Nov-1999 Granted DONDED WAFER PROCESSING WITH METAL SILICIDATION BONDED WAFER PROCESSING WITH METAL SILICIDATION BONDED WAFER PROCESSING WITH OXIDATIVE BONDING United States S849627 IS-Dec- 1998 Granted TRENCH ISOLATION STRESS RELIEF United States S648075 O4-Nov- 1997 Granted TRENCH ISOLATION STRESS RELIEF United States S683075 O4-Nov- 1997 Granted			Serial No.	Reg. Date	
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METAL SILICIDATION BONDED WAFER PROCESSING WITH OXIDATIVE BONDING TRENCH ISOLATION STRESS RELIEF United States TRENCH ISOLATION STRESS RELIEF United States United States S448102 TRENCH ISOLATION STRESS RELIEF United States United States S683075 O4-Nov-1997 BONDED WAFER PROCESS BONDED WAFER PROCESS BONDED WAFER PROCESS	SILICON GLASS-BONDED WAFERS	United States	5994204 		Granted
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METAL SILICIDATION BONDED WAFER PROCESSING WITH METAL SILICIDATION BONDED WAFER PROCESSING WITH OXIDATIVE BONDING TRENCH ISOLATION STRESS RELIEF United States 5569620 1996 Cranted 21-Jun- 2005 Franted 15-Dec- 1998 Granted Total States Trench Isolation Stress relief United States Trench Isolation Stress relief United States 5448102 Trench Isolation Stress relief United States Trench Isolation Stress relief United States 5683075 O4-Nov- 1997 Granted Trench Isolation Stress relief United States	METAL SILICIDATION	Office States	3307333	1995	Granted
BONDED WAFER PROCESSING WITH METAL SILICIDATION BONDED WAFER PROCESSING WITH METAL SILICIDATION BONDED WAFER PROCESSING WITH OXIDATIVE BONDING TRENCH ISOLATION STRESS RELIEF United States United States 5849627 15-Dec- 1998 Granted TRENCH ISOLATION STRESS RELIEF United States 5448102 05-Sep- 1995 Granted TRENCH ISOLATION STRESS RELIEF United States 5683075 O4-Nov- 1997 BONDED WAFER PROCESS		United States	5569620		Granted
METAL SILICIDATION BONDED WAFER PROCESSING WITH OXIDATIVE BONDING TRENCH ISOLATION STRESS RELIEF United States United States 5849627 15-Dec- 1998 Granted O5-Sep- 1995 Granted TRENCH ISOLATION STRESS RELIEF United States 5683075 O4-Nov- 1997 BONDED WAFER PROCESS					
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OXIDATIVE BONDING United States 5849627 1998 Granted TRENCH ISOLATION STRESS RELIEF United States 5448102 05-Sep- 1995 Granted TRENCH ISOLATION STRESS RELIEF United States 5683075 04-Nov- 1997 Granted BONDED WAFER PROCESS 21-Dec-					
TRENCH ISOLATION STRESS RELIEF United States 5448102 05-Sep- 1995 Granted TRENCH ISOLATION STRESS RELIEF United States 5683075 04-Nov- 1997 Granted BONDED WAFER PROCESS 21-Dec-		United States	5849627		Granted
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BONDED WAFER PROCESS 1997	TRENCH ISOLATION STRESS RELIEF	United States	F69207F	04-Nov-	Crantad
	TRENCH ISOLATION STRESS RELIEF	United States	3083073	1997	Granted
				21-Dec-	
INCORPORATING DIAMOND United States 52/2104 1993 Granted		United States	5272104		Granted
INSULATOR					
BONDED WAFER PROCESS INCORPORATING DIAMOND United States 5650639 22-Jul-1997 Granted		United States	ECENCAN.	22 Jul 1007	Grantad
INSULATOR Officed States 3650659 22-3di-1997 Granted		United States	3630639	22-Jul-1997	Granteu
CURRENT DRIVER HAVING VOLTAGE					
TRANSITION FAILURE-BASED SHORT United States 5428492 27-Jun- Granted		United States	5428492		Granted
CIRCUIT PROTECTION CIRCUIT	CIRCUIT PROTECTION CIRCUIT			1995	
RATE CHANGE FILTER AND METHOD United States 5717617 10-Feb- 1998 Granted	RATE CHANGE FILTER AND METHOD	United States	5717617		Granted
DIE SEPARATION METHOD FOR United States 5552345 03-Sep- Granted	DIE SEPARATION MFTHOD FOR	United States	5552345		Granted

Title	Jurisdiction	Reg. No./	Filing Date	Status
Tine	Jurisuction	Serial No.	Reg. Date	Siatus
SILICON ON DIAMOND CIRCUIT			1996	
STRUCTURES				
INTEGRATED CIRCUIT WITH			12 Dec	
IMPROVED REVERSE BIAS	United States	5373183	13-Dec-	Granted
BREAKDOWN			1994	
SEMICONDUCTOR DEVICE WITH			00 Son	
INCREASED MAXIMUM TERMINAL	United States	5665634	09-Sep- 1997	Granted
VOLTAGE			1557	
SEMICONDUCTOR DEVICE WITH			28-Dec-	
INCREASED MAXIMUM TERMINAL	United States	6008512	1999	Granted
VOLTAGE				
LATE PROCESS METHOD AND	United States	5872044	16-Feb-	Granted
APPARATUS FOR TRENCH ISOLATION			1999	
LATE PROCESS METHOD AND	United States	5920108	06-Jul-1999	Granted
APPARATUS FOR TRENCH ISOLATION			06.6	
ANALOG-TO-DIGITAL CONVERTER AND	United States	5345236	06-Sep-	Granted
METHOD METHOD OF MAKING INTEGRATED			1994	
METHOD OF MAKING INTEGRATED CIRCUIT STRUCTURE WITH NARROW	United States	5639688	17-Jun-	Granted
LINE WIDTHS	United States	3039000	1997	Granted
METHOD OF MAKING INTEGRATED				
CIRCUIT STRUCTURE WITH NARROW	United States	5773891	30-Jun-	Granted
LINE WIDTHS	Omica States	3773031	1998	Grantea
SUBMICRON BONDED SOI BY TRENCH			17-Dec-	
PLANARIZATION	United States	5585661	1996	Granted
FAST CHARGING MOS CAPACITOR				
STRUCTURE FOR HIGH MAGNITUDE	11.		23-Aug-	
VOLTAGE OF EITHER POSITIVE OR	United States	5341009	1994	Granted
NEGATIVE POLARITY				
DIAMOND INSULATOR DEVICES AND	United States	E692020	04-Nov-	Crantad
METHOD OF FABRICATION	United States	5683939	1997	Granted
CIRCUIT AND METHOD FOR			18-Oct-	
EXTENDING THE SAFE OPERATING	United States	5357089	1994	Granted
AREA OF A BJT			1554	
METHOD OF MANUFACTURE OF			01-Oct-	
MULTI-CELL INTEGRATED CIRCUIT	United States	5561607	1996	Granted
ARCHITECTURE				
HIGH SPEED COMPARATOR	United States	5541538	30-Jul-1996	Granted
METHODS FOR FORMING A	1.0		07-Mar-	
TRANSISTOR HAVING AN EMITTER	United States	5395774	1995	Granted
WITH ENHANCED EFFICIENCY				
MAGNETIC BOATS	United States	5669599	23-Sep-	Granted
METHOD FOR INTERACTIVELY	United States	EE0147F	1997	Crantad
METHOD FOR INTERACTIVELY	United States	5581475	03-Dec-	Granted

Title	Jurisdiction	Reg. No./ Serial No.	Filing Date / Reg. Date	Status
TAILORING TOPOGRAPHY OF			1996	
INTEGRATED CIRCUIT LAYOUT IN				
ACCORDANCE WITH				
ELECTROMIGRATION MODEL-BASED				
MINIMUM WIDTH METAL AND				
CONTACT/VIA RULES				
GRAPHICAL DISPLAY DISCRIMINANT				
FACTOR INDICATOR FOR ANOMALY	United States	5450326	12-Sep-	Granted
IDENTIFICATION IN SEMICONDUCTOR			1995	3.3
MANUFACTURE BATCH PROCESS				
FILL & ETCHBACK PROCESS USING				
DUAL PHOTORESIST SACRIFICIAL	I Imited States	FF1662F	14-May-	Crontod
LAYER & TWO-STEP ETCHING PROCESS FOR PLANARIZING OXIDE-FILLED	United States	5516625	1996	Granted
SHALLOW TRENCH STRUCTURE				
ESD PROTECTION USING SCR			12-Nov-	
CLAMPING	United States	5574618	1996	Granted
LOW VOLTAGE RF AMPLIFIER AND				
MIXER WITH SINGLE BIAS BLOCK AND	United States	5809410	15-Sep-	Granted
METHOD			1998	
LOW VOLTAGE RF AMPLIFIER AND				
MIXER WITH SINGLE BIAS BLOCK AND	United States	6018270	25-Jan-2000	Granted
METHOD				
METHOD FOR PROVIDING A SILICON				
AND DIAMOND SUBSTRATE HAVING A	United States	5526768	18-Jun-	Granted
CARBON TO SILICON TRANSITION	Office States	3320700	1996	Granted
LAYER AND APPARATUS THEREOF				
METHOD FOR PROVIDING A SILICON				
AND DIAMOND SUBSTRATE HAVING A	United States	5782975	21-Jul-1998	Granted
CARBON TO SILICON TRANSITION				
LAYER AND APPARATUS THEREOF				
RESISTANCE-MEASUREMENT BASED ARRANGEMENT FOR MONITORING				
INTEGRITY OF TRAVEL PATH GROUND	United States	5576695	19-Nov-	Granted
LINK IN ELECTRONIC COMPONENT	Office States	3370093	1996	Granted
HANDLING APPARATUS				
	1.0		14-Nov-	
TRENCH RESISTOR ARCHITECTURE	United States	5466963	1995	Granted
STRUCTURE AND TECHNIQUE FOR				
TAILORING EFFECTIVE RESISTIVITY OF	United States	5637908	10-Jun-	Granted
A SIPOS LAYER BY PATTERNING AND			1997	
CONTROL OF DOPANT INTRODUCTION			20.4	
VOLTAGE INDEPENDENT	United States	5446368	29-Aug-	Granted
SYMMETRICAL CURRENT SOURCE			1995	

Title	Jurisdiction	Reg. No./ Serial No.	Filing Date / Reg. Date	Status
WITH CROSS-COUPLED TRANSISTORS				
METHOD OF FABRICATION OF SURFACE MOUNTABLE INTEGRATED CIRCUITS	United States	5618752	08-Apr- 1997	Granted
PLASMA CLEANING METHOD FOR IMPROVED INK BRAND PERMANENCY ON IC PACKAGES WITH METALLIC PARTS	United States	5451263	19-Sep- 1995	Granted
PLASMA CLEANING METHOD FOR IMPROVED INK BRAND PERMANENCY ON IC PACKAGES WITH METALLIC PARTS	United States	5882423	16-Mar- 1999	Granted
PROGRAMMABLE ELEMENT IN BARRIER METAL DEVICE AND METHOD	United States	5648678	15-Jul-1997	Granted
DIGITAL COMPONENT TESTING APPARATUS AND METHOD	United States	5644309	01-Jul-1997	Granted
JFET STRUCTURES FOR SEMICONDUCTOR DEVICES WITH COMPLEMENTARY BIPOLAR TRANSISTORS & METHOD	United States	5652153	29-Jul-1997	Granted
CMOS INTEGRATED CIRCUIT ARCHITECTURE INCORPORATION DEEP IMPLANTED EMITTER REGION TO FORM AUXILIARY BIPOLAR TRANSISTOR	United States	6350640	26-Feb- 2002	Granted
SCR-INDUCTOR TRANSIENT CLAMP	United States	5546038	13-Aug- 1996	Granted
PROCESS FOR MANUFACTURING A MULTI-PORT ADHESIVE DISPENSING TOOL	United States	5423889	13-Jun- 1995	Granted
DIGITAL BASEBAND TO IF CONVERSION IN CELLULAR BASE STATIONS	United States	5519732	21-May- 1996	Granted
METHOD OF MAKING CONTACT REGIONS FOR NARROW TRENCHES IN SEMICONDUCTOR DEVICES	United States	5622890	22-Apr- 1997	Granted
METHOD OF MAKING CONTACT REGIONS FOR NARROW TRENCHES IN SEMICONDUCTOR DEVICES	United States	5962908	05-Oct- 1999	Granted
VIDEO SCALING METHOD AND DEVICE	United States	5574572	12-Nov- 1996	Granted
HIGH SPEED A/D CONVERTER AND SLEW CONTROLLED PULSE DETECTOR	United States	5808489	15-Sep- 1998	Granted
MULTISTANDARD DECODER FOR	United States	5621478	15-Apr-	Granted

Title	Jurisdiction	Reg. No./ Serial No.	Filing Date / Reg. Date	Status
VIDEO SIGNALS AND VIDEO SIGNAL DECODING METHOD			1997	
SAMPLE RATE CONVERTER AND SAMPLE RATE CONVERSION METHOD	United States	5619270	08-Apr- 1997	Granted
DIGITAL DECODER AND METHOD FOR DECODING COMPOSITE VIDEO SIGNALS	United States	5621477	15-Apr- 1997	Granted
METHOD OF FORMING P-TYPE ISLANDS OVER P-TYPE BURIED LAYER	United States	5633180	27-May- 1997	Granted
IMPEDANCE SETTING CIRCUIT FOR A SLIC	United States	5515434	07-May- 1996	Granted
CAPACITOR STRUCTURE IN A BONDED WAFER AND METHOD OF FABRICATION	United States	5841182	24-Nov- 1998	Granted
GROUND KEY DETECTOR FOR A SLIC	United States	5515417	07-May- 1996	Granted
CURRENT FOLLOWER WITH ZERO INPUT IMPEDANCE	United States	5614867	25-Mar- 1997	Granted
AN INTEGRATED RINGER RELAY CIRCUIT AND METHOD	United States	5517565	14-May- 1996	Granted
ZERO PHASE ERROR SWITCHED- CAPACITOR PHASE LOCKED LOOP FILTER	United States	5659269	19-Aug- 1997	Granted
TEMPERATURE INSENSITIVE FILTER TUNING NETWORK AND METHOD	United States	5572161	05-Nov- 1996	Granted
METHOD OF FORMING DUMMY ISLAND CAPACITOR	United States	5602052	11-Feb- 1997	Granted

Intersil Americas, Inc. – Foreign Registered Patents and Pending Applications

Title	Jurisdiction	Reg. No./ Serial No.	Filing Date / Reg. Date	Status
MULTI-PHASE CONVERTER WITH BALANCED CURRENTS	TW	1232630	11-May- 2005	Granted
THERMAL COMPENSATED CURRENT SENSING OF INTRINSIC POWER CONVERTER ELEMENTS	CN	100352154C	28-Nov- 2007	Granted
THERMAL COMPENSATED CURRENT SENSING OF INTRINSIC POWER CONVERTER ELEMENTS	KR	10-0578908	04-May- 2006	Granted
THERMAL COMPENSATED CURRENT SENSING OF INTRINSIC POWER CONVERTER ELEMENTS	TW	NI-197515	01-Mar- 2004	Granted
ADJUSTABLE INTEGRATED THERMAL	CN	CN100336289	05-Sep-	Granted

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COMPENSATION METHOD FOR ELECTRONIC CIRCUITS UTILIZING TEMPERATURE-DEPENDEDRY SENSING ELEMENTS ADJUSTABLE INTEGRATED THERMAL COMPENSATION METHOD FOR ELECTRONIC CIRCUITS UTILIZING TEMPERATURE-DEPENDEDRY SENSING ELEMENTS DC-TO-DC CONVERTER WITH FAST OVERRIDE FEEDBACK CONTROL AND ASSOCIATED METHODS DC-TO-DC CONVERTER WITH FAST OVERRIDE FEEDBACK CONTROL AND ASSOCIATED METHODS PROGRAMMABLE CURRENT-SENSING CIRCUIT PROVIDING CONTINUOUS TEMPERATURE COMPENSATION FOR DC- DC COVERTER PROGRAMMABLE CURRENT-SENSING CIRCUIT PROVIDING CONTINUOUS TEMPERATURE COMPENSATION FOR DC- DC CONVERTER DISCRETE STEP TEMPERATURE COMPENSATION FOR DC- DC CONVERTER TW 1232021 11-Jul-2005 Granted TW 1236205 11-Jul-2005 Granted TW 1236205 11-Jul-2005 Granted TW 1257542 11-Sep- 2004 Granted TW 1257542 11-Sep- 2004 Granted LI-ION/LI-POLYMER BATTERY CHARGER CONFIGURED TO BE DC-POWERED FROM MULTIPLE TYPES OF WALL ADAPTERS LI-ION/LI-POLYMER BATTERY CHARGER CONFIGURED TO BE DC-POWERED FROM MULTIPLE TYPES OF WALL ADAPTERS LI-ION/LI-POLYMER BATTERY CHARGER CONFIGURED TO BE DC-POWERED FROM MULTIPLE TYPES OF WALL ADAPTERS LI-ION/LI-POLYMER BATTERY CHARGER CONFIGURED TO BE DC-POWERED FROM MULTIPLE TYPES OF WALL ADAPTERS LI-ION/LI-POLYMER BATTERY CHARGER CONFIGURED TO BE DC-POWERED FROM MULTIPLE TYPES OF WALL ADAPTERS LI-ION/LI-POLYMER BATTERY CHARGER CONFIGURED TO BE DC-POWERED FROM MULTIPLE TYPES OF WALL ADAPTERS LI-ION/LI-POLYMER BATTERY CHARGER CONFIGURED TO BE DC-POWERED FROM MULTIPLE T	Title	Jurisdiction	Reg. No./ Serial No.	Filing Date /	Status
ELECTRONIC CIRCUITS UTILIZING TEMPERATURE-DEPENDENT SENSING ELEMENTS ADJUSTABLE INTEGRATED THERMAL COMPENSATION METHOD FOR ELECTRONIC CIRCUITS UTILIZING TEMPERATURE-DEPENDENT SENSING ELEMENTS DC-TO-DC CONVERTER WITH FAST OVERRIDE FEEDBACK CONTROL AND ASSOCIATED METHODS DC-TO-DC CONVERTER WITH FAST OVERRIDE FEEDBACK CONTROL AND ASSOCIATED METHODS CIRCUIT PROVIDING CONTROL PROGRAMMABLE CURRENT-SENSING CIRCUIT PROVIDING CONTINUOUS TEMPERATURE COMPENSATION FOR DC- DC CONVERTER PROGRAMMABLE CURRENT-SENSING CIRCUIT PROVIDING CONTINUOUS TEMPERATURE COMPENSATION FOR DC- DC CONVERTER DISCRETE STEP TEMPERATURE COMPENSATION FOR DC- DC CONVERTER DISCRETE STEP TEMPERATURE COMPENSATE OURRENT SENSING TECHNIQUE FOR DC TO DC EFFICIENT BUCK TOPOLOGY DC-DC POWER STAGE UTILIZING MONOLITHIC N-CHAINNEL UPPER FET AND PILOT CURRENT SENSING METHOD OF SETTING B-IDIRECTIONAL OFFSET IN A PWM CONTROLLER USING A SINGLE PIN METHOD OF SETTING B-IDIRECTIONAL OFFSET IN A PWM CONTROLLER USING A SINGLE PIN METHOD OF SETTING B-IDIRECTIONAL OFFSET IN A PWM CONTROLLER USING A SINGLE PIN METHOD OF SETTING B-IDIRECTIONAL OFFSET IN A PWM CONTROLLER USING A SINGLE PIN METHOD OF SETTING B-IDIRECTIONAL OFFSET IN A PWM CONTROLLER USING A SINGLE PIN METHOD OF SETTING B-IDIRECTIONAL OFFSET IN A PWM CONTROLLER USING A SINGLE PIN METHOD OF SETTING B-IDIRECTIONAL OFFSET IN A PWM CONTROLLER USING A SINGLE PIN METHOD OF SETTING B-IDIRECTIONAL OFFSET IN A PWM CONTROLLER USING A SINGLE PIN METHOD OF SETTING B-IDIRECTIONAL OFFSET IN A PWM CONTROLLER USING A SINGLE PIN METHOD OF SETTING B-IDIRECTIONAL OFFSET IN A PWM CONTROLLER USING A SINGLE PIN MULTIPLE TYPES OF WALL ADAPTERS LI-ION/LI-POLYMER BATTERY CHARGER CONFIGURED TO BE DC-POWERED FROM MULTIPLE TYPES OF WALL ADAPTERS LI-ION/LI-POLYMER BATTERY CHARGER CONFIGURED TO BE DC-POWERED FROM MULTIPLE TYPES OF WALL ADAPTERS LI-ION/LI-POLYMER BATTERY CHARGER CONFIGURED TO BE DC-POWERED FROM MULTIPLE TYPES OF WALL ADAPTERS SYNCHROMIZATION OF MULTIPHASE SYNCHROMIZATION OF MULTIPHASE SYNCHROMIZATION			Seriai 140.	Reg. Date	
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LI-ION/LI-POLYMER BATTERY CHARGER CONFIGURED TO BE DC-POWERED FROM MULTIPLE TYPES OF WALL ADAPTERS LI-ION/LI-POLYMER BATTERY CHARGER CONFIGURED TO BE DC-POWERED FROM MULTIPLE TYPES OF WALL ADAPTERS LI-ION/LI-POLYMER BATTERY CHARGER CONFIGURED TO BE DC-POWERED FROM MULTIPLE TYPES OF WALL ADAPTERS LI-ION/LI-POLYMER BATTERY CHARGER CONFIGURED TO BE DC-POWERED FROM MULTIPLE TYPES OF WALL ADAPTERS SYNCHRONIZATION OF MULTIPHASE SYNTHETIC RIPPLE VOLTAGE REGULATOR KR 723989 25-May- 2007 Granted O8-Oct- 2008 Granted TW I234330 11-Jun- 2005 Granted Granted Granted Granted Granted	SINGLE PIN			2004	
CONFIGURED TO BE DC-POWERED FROM MULTIPLE TYPES OF WALL ADAPTERS LI-ION/LI-POLYMER BATTERY CHARGER CONFIGURED TO BE DC-POWERED FROM MULTIPLE TYPES OF WALL ADAPTERS LI-ION/LI-POLYMER BATTERY CHARGER CONFIGURED TO BE DC-POWERED FROM MULTIPLE TYPES OF WALL ADAPTERS LI-ION/LI-POLYMER BATTERY CHARGER CONFIGURED TO BE DC-POWERED FROM MULTIPLE TYPES OF WALL ADAPTERS SYNCHRONIZATION OF MULTIPHASE SYNTHETIC RIPPLE VOLTAGE REGULATOR KR 723989 25-May- 2007 Granted 08-Oct- 2008 Granted TW 1234330 11-Jun- 2005 Granted Granted Granted Granted	PWM CONTROLLER WITH INTEGRATED PLL	TW	1257542	01-Jul-2006	Granted
CONFIGURED TO BE DC-POWERED FROM MULTIPLE TYPES OF WALL ADAPTERS LI-ION/LI-POLYMER BATTERY CHARGER CONFIGURED TO BE DC-POWERED FROM MULTIPLE TYPES OF WALL ADAPTERS LI-ION/LI-POLYMER BATTERY CHARGER CONFIGURED TO BE DC-POWERED FROM MULTIPLE TYPES OF WALL ADAPTERS LI-ION/LI-POLYMER BATTERY CHARGER CONFIGURED TO BE DC-POWERED FROM MULTIPLE TYPES OF WALL ADAPTERS SYNCHRONIZATION OF MULTIPHASE SYNTHETIC RIPPLE VOLTAGE REGULATOR KR 723989 25-May- 2007 Granted 08-Oct- 2008 Granted TW 1234330 11-Jun- 2005 Granted Granted Granted Granted	LI-ION/LI-POLYMER BATTERY CHARGER			25 N4	
MULTIPLE TYPES OF WALL ADAPTERS LI-ION/LI-POLYMER BATTERY CHARGER CONFIGURED TO BE DC-POWERED FROM MULTIPLE TYPES OF WALL ADAPTERS LI-ION/LI-POLYMER BATTERY CHARGER CONFIGURED TO BE DC-POWERED FROM MULTIPLE TYPES OF WALL ADAPTERS TW I234330 11-Jun- 2005 Granted Granted SYNCHRONIZATION OF MULTIPHASE SYNTHETIC RIPPLE VOLTAGE REGULATOR CN 100422897C 100422897C O1-Oct- 2008	•	KR	723989	1	Granted
CONFIGURED TO BE DC-POWERED FROM MULTIPLE TYPES OF WALL ADAPTERS LI-ION/LI-POLYMER BATTERY CHARGER CONFIGURED TO BE DC-POWERED FROM MULTIPLE TYPES OF WALL ADAPTERS SYNCHRONIZATION OF MULTIPHASE SYNTHETIC RIPPLE VOLTAGE REGULATOR CN 0380105133* 08-Oct-2008 Granted 11-Jun-2005 Granted 11-Jun-2005 Granted CN 100422897C 01-Oct-2008	MULTIPLE TYPES OF WALL ADAPTERS			2007	
CONFIGURED TO BE DC-POWERED FROM MULTIPLE TYPES OF WALL ADAPTERS LI-ION/LI-POLYMER BATTERY CHARGER CONFIGURED TO BE DC-POWERED FROM MULTIPLE TYPES OF WALL ADAPTERS SYNCHRONIZATION OF MULTIPHASE SYNTHETIC RIPPLE VOLTAGE REGULATOR CN 0380105133* 2008 I1-Jun-2005 Granted O1-Oct-2008	LI-ION/LI-POLYMER BATTERY CHARGER			08 0-4	
LI-ION/LI-POLYMER BATTERY CHARGER CONFIGURED TO BE DC-POWERED FROM MULTIPLE TYPES OF WALL ADAPTERS SYNCHRONIZATION OF MULTIPHASE SYNTHETIC RIPPLE VOLTAGE REGULATOR TW I234330 11-Jun- 2005 Granted O1-Oct- 2008	CONFIGURED TO BE DC-POWERED FROM	CN	0380105133*		Granted
CONFIGURED TO BE DC-POWERED FROM MULTIPLE TYPES OF WALL ADAPTERS SYNCHRONIZATION OF MULTIPHASE SYNTHETIC RIPPLE VOLTAGE REGULATOR TW 1234330 2005 Granted 2005 CN 100422897C 01-Oct-2008	MULTIPLE TYPES OF WALL ADAPTERS			2008	
CONFIGURED TO BE DC-POWERED FROM MULTIPLE TYPES OF WALL ADAPTERS SYNCHRONIZATION OF MULTIPHASE SYNTHETIC RIPPLE VOLTAGE REGULATOR CN 100422897C 2008 Granted Granted	LI-ION/LI-POLYMER BATTERY CHARGER			11 1	
SYNCHRONIZATION OF MULTIPHASE SYNTHETIC RIPPLE VOLTAGE REGULATOR CN 100422897C 2008 Granted	CONFIGURED TO BE DC-POWERED FROM	TW	1234330		Granted
SYNTHETIC RIPPLE VOLTAGE REGULATOR CN 100422897C 2008 Granted	MULTIPLE TYPES OF WALL ADAPTERS			2005	
SYNTHETIC RIPPLE VOLTAGE REGULATOR 2008	SYNCHRONIZATION OF MULTIPHASE	CNI	1004220076	01-Oct-	Cupictori
SYNCHRONIZATION OF MULTIPHASE ID 2001110 OF IN 2007	SYNTHETIC RIPPLE VOLTAGE REGULATOR	LN	100422897C	2008	Granted
2 DINCHRONIZATION OF NOTHERBOSE 14 239TTTO 00-101-5007 GLANTED	SYNCHRONIZATION OF MULTIPHASE	JP	3981110	06-Jul-2007	Granted

		Reg. No./	Filing		
Title	Jurisdiction	Serial No.	Date /	Status	
			Reg. Date		
SYNTHETIC RIPPLE VOLTAGE REGULATOR					
SYNCHRONIZATION OF MULTIPHASE	CN	*0410083437	23-Feb-	Granted	
SYNTHETIC RIPPLE VOLTAGE REGULATOR			2007		
SYNCHRONIZATION OF MULTIPHASE	KR	10-0716125	02-May-	Granted	
SYNTHETIC RIPPLE VOLTAGE REGULATOR			2007		
SYNCHRONIZATION OF MULTIPHASE	TW	1269133	21-Dec-	Granted	
SYNTHETIC RIPPLE VOLTAGE REGULATOR			2006		
SYNCHRONIZATION OF MULTIPHASE	TW	1269134	21-Dec-	Granted	
SYNTHETIC RIPPLE VOLTAGE REGULATOR			2006		
MULTIPHASE CONVERTER CONTROLLER	TW	1321390	01-Mar-	Granted	
USING SINGLE GAIN RESISTOR			2010		
MULTIPHASE CONVERTER CONTROLLER	CN	*0380110117	11-Jun-	Granted	
USING SINGLE GAIN RESISTOR			2008		
PWM-BASED DC-DC CONVERTER WITH			21 14-4		
ASSURED DEAD TIME CONTROL EXHIBITING NO SHOTT-THROUGH CURRENT AND	TW	1229970	21-Mar- 2005	Granted	
INDEPENDENT OF TYPE OF FET USED			2005		
PWM-BASED DC-DC CONVERTER WITH					
ASSURED DEAD TIME CONTROL EXHIBITING			27 May		
NO SHOTT-THROUGH CURRENT AND	CN	CN 100492829C	100492829C	27-May- 2009	Granted
INDEPENDENT OF TYPE OF FET USED			2009		
MECHANISM FOR PROVIDING OVER-					
VOLTAGE PROTECTION DURING POWER UP	T\\\/	1291281	11-Dec-	Granted	
OF DC-DC CONVERTER	TW	1291281	2007	Granted	
LOW POWER, AREA-EFFICIENT CIRCUIT TO			01-Mar-		
PROVIDE CLOCK SYNCHRONIZATION	TW	1294219	2008	Granted	
OPTICAL PICK-UP UNITS AND LASER			25-Dec-		
DRIVERS WITH INCREASED FUNCTIONALITY	CN	4431571	2009	Granted	
MULTIPHASE CONVERTER WITH ZERO			17-Jun-	_	
VOLTAGE SWITCHING	CN	0510005928.	2009	Granted	
DC-TO-DC POWER REGULATOR HAVING					
NON-LINEAR LOAD LINE AND AUTOMATIC	TW	i180468	01-May-	Granted	
LEAKAGE CURRENT OFFSET ADJUSTMENT			2007	2.3	
DC-TO-DC POWER REGULATOR HAVING			26.11		
NON-LINEAR LOAD LINE AND AUTOMATIC	CN	100437413C	26-Nov-	Granted	
LEAKAGE CURRENT OFFSET ADJUSTMENT			2008		
ACTIVE AREA BONDING COMPATIBLE HIGH	T) A /	1202106	01-Feb-	Cuantad	
CURRENT STRUCTURES	TW	1293186	2008	Granted	
ASSYMETRICAL MULTIPHASE DC-DC	CNI	CN100202417	16-Apr-	Cuantad	
POWER CONVERTER	CN	CN100382417	2008	Granted	
ASSYMETRICAL MULTIPHASE DC-DC	T\A/	1275224	01-Mar-	Crantad	
POWER CONVERTER	TW	1275234	2007	Granted	
MULTIPLEXED HIGH VOLTAGE DC-AC	CNI	CN100502219	17-Jun-	Grantad	
DRIVER	CN	CINTOO202513	2009	Granted	
MULTIPLEXED HIGH VOLTAGE DC-AC	KR	10-619636	28-Aug-	Granted	
DRIVER	NΠ	10-013030	2006	Granted	
MULTIPLEXED HIGH VOLTAGE DC-AC	TW	1275236	01-Mar-	Granted	
DRIVER	1 7 7	12/3230	2007	Granted	

Title	Jurisdiction	Reg. No./ Serial No.	Filing Date / Reg. Date	Status
CASCADABLE CURRENT-MODE REGULATOR	TW	1274975	01-Mar- 2007	Granted
CASCADABLE CURRENT-MODE REGULATOR	CN	100438293C	26-Nov- 2008	Granted
CLOCKED, CASCADING, CURRENT-MODE REGULATOR WITH HIGH NOISE IMMUNITY AND ARBITRARY PHASE COUNT	CN	100397280C	25-Jun- 2008	Granted
CLOCKED, CASCADING, CURRENT-MODE REGULATOR WITH HIGH NOISE IMMUNITY AND ARBITRARY PHASE COUNT	TW	1281771	21-May- 2007	Granted
TRACKING SOFT START CIRCUIT FOR GENERATING A PLURALITY OF SOFT START VOLTAGES WHERE ALL SOFT START VOLTAGES ARE PREVENTED UNTIL ALL HAVE BEEN BROUGHT TO THE SAME PRESCRIBED STATE OF OPERATION	TW	1244822	01-Dec- 2005	Granted
TRACKING SOFT START CIRCUIT FOR GENERATING A PLURALITY OF SOFT START VOLTAGES WHERE ALL SOFT START VOLTAGES ARE PREVENTED UNTIL ALL HAVE BEEN BROUGHT TO THE SAME PRESCRIBED STATE OF OPERATION	CN	CN100468284	11-Mar- 2009	Granted
SYSTEM AND METHOD OF DETECTING PHASE BODY DIODE USING A COMPARATOR IN A SYNCHRONOUS RECTIFIED FET DRIVER	TW	1289005	21-Oct- 2007	Granted
SYSTEM AND METHOD OF DETECTING PHASE BODY DIODE USING A COMPARATOR IN A SYNCHRONOUS RECTIFIED FET DRIVER	CN	0410102013	23-Jul-2008	Granted
PRECISION MARGINING CIRCUITRY	TW	1275918	11-Mar- 2007	Granted
PRECISION MARGINING CIRCUITRY	CN	10097455.6	11-Jun- 2008	Granted
LINEAR PREDICTIVE CONTROLLER	CN	ZL100565085	19-Aug- 2009	Granted
STARTUP CIRCUIT FOR CONVERTER WITH PRE-BIASED LOAD	CN	CN100466432	04-Mar- 2009	Granted
DROOP AMPLIFIER CIRCUIT	KR	881537	23-Jan- 2009	Granted
DROOP AMPLIFIER CIRCUIT	JP	4366422	28-Aug- 2009	Granted
DROOP AMPLIFIER CIRCUIT	CN	0580007693	16-Jul-2008	Granted
CONTROLLER AND DRIVER ARCHITECTURE FOR DOUBLE- ENDED CIRCUITRY FOR POWERING COLD CATHODE FLUORESCENT LAMPS	KR	773176	29-Oct- 2007	Granted
CONTROLLER AND DRIVER ARCHITECTURE	TW	i280536	01-May-	Granted

Title	Jurisdiction	Reg. No./ Serial No.	Filing Date/	Status
		Strai 140.	Reg. Date	
FOR DOUBLE- ENDED CIRCUITRY FOR			2007	
POWERING COLD CATHODE FLUORESCENT				
LAMPS				
APPARATUS AND METHOD FOR SLIDING-			25-Mar-	
MODE CONTROL IN A MULTIPHASE	CN	10084513	2009	Granted
SWITCHING POWER SUPPLY			2009	
APPARATUS AND METHOD FOR FIXED-				
FREQUENCY CONTROL IN A SWITCHING	CN	0510084514.	01-Jul-2005	Granted
POWER SUPPLY				
APPARATUS AND METHOD FOR TRANSIENT				
CONTROL IN A MULTIPHASE SWITCHING	CN	10084515	29-Jul-2009	Granted
POWER SUPPLY				
PHASE SHIFT MODULATION-BASED				
CONTROL OF AMPLITUDE OF AC VOLTAGE				
OUTPUT PRODUCED BY DOUBLE-ENDED	TW	1306359	11-Feb-	Granted
DC-AC CONVERTER CIRCUITRY FOR		1306339	2009	Granted
POWERING HIGH VOLTAGE LOAD SUCH AS				
COLD CATHODE FLUORESCENT LAMP				
PHASE SHIFT MODULATION-BASED				
CONTROL OF AMPLITUDE OF AC VOLTAGE				
OUTPUT PRODUCED BY DOUBLE-ENDED	CN	CN100454745	21-Jan-	Granted
DC-AC CONVERTER CIRCUITRY FOR		CIV100434743	2009	Grantea
POWERING HIGH VOLTAGE LOAD SUCH AS				
COLD CATHODE FLUORESCENT LAMP				
PHASE SHIFT MODULATION-BASED				
CONTROL OF AMPLITUDE OF AC VOLTAGE				
OUTPUT PRODUCED BY DOUBLE-ENDED	KR	712448	23-Apr-	Granted
DC-AC CONVERTER CIRCUITRY FOR		, 12	2007	or arrico a
POWERING HIGH VOLTAGE LOAD SUCH AS				
COLD CATHODE FLUORESCENT LAMP				
CURRENT AVERAGING CIRCUIT FOR A PWM	CN	CN100432883	12-Nov-	Granted
POWER CONVERTER			2008	
CURRENT AVERAGING CIRCUIT FOR A PWM	TW	1257200	21-Jun-	Granted
POWER CONVERTER			2006	0.0
FLOATING GATE ANALOG VOLTAGE LEVEL				
SHIFT CIRCUIT AND METHOD FOR	CN	ZL10092242	11-Mar-	Granted
PRODUCING A VOLTAGE REFERENCE THAT			2009	2.0
OPERATES ON A LOW SUPPLY VOLTAGE				
DC-AC CONVERTER HAVING PHASE-				
MODULATED, DOUBLE-ENDED, HALF-	1/5	72055	25-May-	
BRIDGE TOPOLOGY FOR POWERING HIGH	KR	73965	2007	Granted
VOLTAGE LOAD SUCH AS COLD CATHODE				
FLUORESCENT LAMP			05.4	
REFERENCE VOLTAGE GENERATOR FOR USE	CN	0610055035	05-Aug-	Granted
IN DISPLAY APPLICATIONS			2009	
REFERENCE VOLTAGE GENERATOR FOR USE	KR	10-0863638	08-Oct-	Granted
IN DISPLAY APPLICATIONS			2008	
PWM CONTROLLER WITH DUAL-EDGE	TW	1301701	01-Oct-	Granted
MODULATION USING DUAL RAMPS			2008	

Title	Jurisdiction	Reg. No./ Serial No.	Filing Date / Reg. Date	Status
PWM CONTROLLER WITH DUAL-EDGE MODULATION USING DUAL RAMPS	CN	CN100466434	04-Mar- 2009	Granted
ADAPTIVE PWM PULSE POSITION FOR FAST TRANSIENT RESPONSE	CN	100499330C.	10-Jun- 2009	Granted
ACTIVE DROOP CURRENT SHARING	DE	20200900985	24-Dec- 2009	Granted
ADDING AND DROPPING PHASES IN CURRENT SHARING	DE	009855.9	24-Dec- 2009	Granted
INTELLIGENT MANAGEMENT OF CURRENT SHARING GROUP	DE	22009009854	24-Dec- 2009	Granted
THERMAL COMPENSATED CURRENT SENSING OF INTRINSIC POWER CONVERTER ELEMENTS	EP	02-757255.1	19-Feb- 2004	Pending
THERMAL COMPENSATED CURRENT SENSING OF INTRINSIC POWER CONVERTER ELEMENTS	JP	03-522248	05-Mar- 2004	Published
THERMAL COMPENSATED CURRENT SENSING OF INTRINSIC POWER CONVERTER ELEMENTS	CN	10180340.7	17-Oct- 2007	Published
ADJUSTABLE INTEGRATED THERMAL COMPENSATION METHOD FOR ELECTRONIC CIRCUITS UTILIZING TEMPERATURE-DEPENDENT SENSING ELEMENTS	wo	US02/26355	20-Aug- 2002	Published
ADJUSTABLE INTEGRATED THERMAL COMPENSATION METHOD FOR ELECTRONIC CIRCUITS UTILIZING TEMPERATURE-DEPENDENT SENSING ELEMENTS	JP	03-522247	17-Feb- 2004	Published
ADJUSTABLE INTEGRATED THERMAL COMPENSATION METHOD FOR ELECTRONIC CIRCUITS UTILIZING TEMPERATURE-DEPENDENT SENSING ELEMENTS	EP	02759402	19-Feb- 2004	Pending
ADJUSTABLE INTEGRATED THERMAL COMPENSATION METHOD FOR ELECTRONIC CIRCUITS UTILIZING TEMPERATURE-DEPENDENT SENSING ELEMENTS	KR	04-7002460	20-Feb- 2004	Pending
PROGRAMMABLE CURRENT-SENSING CIRCUIT PROVIDING CONTINUOUS TEMPERATURE COMPENSATION FOR DC- DC CONVERTER	DE	10297493.4	28-May- 2004	Pending
PROGRAMMABLE CURRENT-SENSING CIRCUIT PROVIDING CONTINUOUS TEMPERATURE COMPENSATION FOR DC- DC CONVERTER	CN	200810125920	05-Jun- 2008	Pending
METHOD OF SETTING BI-DIRECTIONAL	WO	03/35893	12-Nov-	Pending

Title	Jurisdiction	Reg. No./	Filing Date /	Status
		Serial No.	Reg. Date	
OFFSET IN A PWM CONTROLLER USING A SINGLE PIN			2003	
PWM CONTROLLER WITH INTEGRATED PLL	KR	05-7005825	04-Apr- 2005	Pending
PWM CONTROLLER WITH INTEGRATED PLL	JP	2004-543104	04-Apr- 2005	Published
PWM CONTROLLER WITH INTEGRATED PLL	CN	80103120.4	09-May- 2005	Pending
SYNCHRONIZATION OF MULTIPHASE SYNTHETIC RIPPLE VOLTAGE REGULATOR	KR	2004-75133	20-Sep- 2004	Pending
SYNCHRONIZATION OF MULTIPHASE SYNTHETIC RIPPLE VOLTAGE REGULATOR	EP	04 023 197.9	29-Sep- 2004	Pending
SYNCHRONIZATION OF MULTIPHASE SYNTHETIC RIPPLE VOLTAGE REGULATOR	JP	2004-285516	29-Sep- 2004	Pending
SYNCHRONIZATION OF MULTIPHASE SYNTHETIC RIPPLE VOLTAGE REGULATOR	EP	04023198.7	29-Sep- 2004	Pending
SYNCHRONIZATION OF MULTIPHASE SYNTHETIC RIPPLE VOLTAGE REGULATOR	DE	04 023 197.9	29-Sep- 2004	Pending
SYNCHRONIZATION OF MULTIPHASE SYNTHETIC RIPPLE VOLTAGE REGULATOR	DE	04023198.7	29-Sep- 2004	Pending
MECHANISM FOR PROVIDING OVER- VOLTAGE PROTECTION DURING POWER UP OF DC-DC CONVERTER	CN	03- 80107760.2	12-Dec- 2003	Published
LOW POWER, AREA-EFFICIENT CIRCUIT TO PROVIDE CLOCK SYNCHRONIZATION	wo	04/03965	11-Feb- 2004	Published
OPTICAL PICK-UP UNITS AND LASER DRIVERS WITH INCREASED FUNCTIONALITY	JP	2006-507089	11-Mar- 2004	Pending
OPTICAL PICK-UP UNITS AND LASER DRIVERS WITH INCREASED FUNCTIONALITY	TW	93106463	11-Mar- 2004	Pending
MULTIPHASE CONVERTER WITH ZERO VOLTAGE SWITCHING	TW	93135949	23-Nov- 2004	Published
ACTIVE AREA BONDING COMPATIBLE HIGH CURRENT STRUCTURES	wo	04/23307	20-Jul-2004	Pending
ACTIVE AREA BONDING COMPATIBLE HIGH CURRENT STRUCTURES	KR	06-7003594	20-Jul-2004	Pending
ACTIVE AREA BONDING COMPATIBLE HIGH CURRENT STRUCTURES	EP	04778684.3	20-Jul-2004	Pending
ACTIVE AREA BONDING COMPATIBLE HIGH CURRENT STRUCTURES	CN	200410095946	20-Aug- 2004	Published
ACTIVE AREA BONDING COMPATIBLE HIGH CURRENT STRUCTURES	JP	06-523849	21-Feb- 2006	Pending
MULTIPLE CHANNEL PROGRAMMABLE GAMMA CORRECTION VOLTAGE GENERATOR	TW	93123071	02-Aug- 2004	Pending
MULTIPLEXED HIGH VOLTAGE DC-AC DRIVER	JP	330976	15-Nov- 2004	Pending
STARTUP CIRCUIT FOR A DC-DC CONVERTER	TW	93127999	16-Sep- 2004	Pending

Title	Jurisdiction	Reg. No./ Serial No.	Filing Date / Reg. Date	Status
TRACKING SOFT START CIRCUIT FOR GENERATING A PLURALITY OF SOFT START VOLTAGES WHERE ALL SOFT START VOLTAGES ARE PREVENTED UNTIL ALL HAVE BEEN BROUGHT TO THE SAME PRESCRIBED STATE OF OPERATION	WO	04/33576	12-Oct- 2004	Published
TRACKING SOFT START CIRCUIT FOR GENERATING A PLURALITY OF SOFT START VOLTAGES WHERE ALL SOFT START VOLTAGES ARE PREVENTED UNTIL ALL HAVE BEEN BROUGHT TO THE SAME PRESCRIBED STATE OF OPERATION	EP	04794828.6	23-May- 2006	Pending
MULTIPHASE DC-DC CONVERTER WITH REDUCED RIPPLE	TW	93128000	16-Sep- 2004	Pending
TRANSCONDUCTANCE AMPLIFIER WITH MULTI-EMITTER STRUCTURE FOR CURRENT BALANCE IN MULTI-PHASE SYNTHETIC RIPPLE REGULATOR	TW	93128538	21-Sep- 2004	Pending
LINEAR PREDICTIVE CONTROLLER	TW	93129806	01-Oct- 2004	Published
STARTUP CIRCUIT FOR CONVERTER WITH PRE-BIASED LOAD	TW	94101584	19-Jan- 2005	Pending
DROOP AMPLIFIER CIRCUIT	TW	93128539	21-Sep- 2004	Pending
DROOP AMPLIFIER CIRCUIT	WO	05/07561	28-Mar- 2005	Pending
ENABLE AND DISABLE OF DIODE- EMULATION IN A DC/DC CONVERTER	TW	93128540	21-Sep- 2004	Pending
CONTROLLER AND DRIVER ARCHITECTURE FOR DOUBLE- ENDED CIRCUITRY FOR POWERING COLD CATHODE FLUORESCENT LAMPS	CN	10070419.5	28-Apr- 2005	Published
APPARATUS AND METHOD FOR SLIDING- MODE CONTROL IN A MULTIPHASE SWITCHING POWER SUPPLY	TW	94118562	06-Jun- 2005	Pending
APPARATUS AND METHOD FOR FIXED- FREQUENCY CONTROL IN A SWITCHING POWER SUPPLY	TW	94118563	06-Jun- 2005	Pending
APPARATUS AND METHOD FOR TRANSIENT CONTROL IN A MULTIPHASE SWITCHING POWER SUPPLY	TW	94116880	24-May- 2005	Published
PHASE SHIFT MODULATION-BASED CONTROL OF AMPLITUDE OF AC VOLTAGE OUTPUT PRODUCED BY DOUBLE-ENDED DC-AC CONVERTER CIRCUITRY FOR POWERING HIGH VOLTAGE LOAD SUCH AS COLD CATHODE FLUORESCENT LAMP	CN	10190324	19-Jul-2005	Pending
FLOATING GATE ANALOG VOLTAGE LEVEL	TW	94122154	30-Jun-	Pending

FF24	* · · · · · · · · · · · · · · · · · · ·	Reg. No./	Filing	σ <u>.</u>
Title	Jurisdiction	Serial No.	Date / Reg. Date	Status
SHIFT CIRCUIT AND METHOD FOR			2005	
PRODUCING A VOLTAGE REFERENCE THAT			2005	
OPERATES ON A LOW SUPPLY VOLTAGE				
OPERATES ON A LOW SUPPLY VOLTAGE			08-Nov-	
IMPROVED ESD STRUCTURE	CN	200510125002	2005	Published
DC-AC CONVERTER HAVING PHASE-				
MODULATED, DOUBLE-ENDED, HALF-			14-Apr-	
BRIDGE TOPOLOGY FOR POWERING HIGH	TW	95113351	2006	Published
VOLTAGE LOAD SUCH AS COLD CATHODE				
FLUORESCENT LAMP				
REFERENCE VOLTAGE GENERATOR FOR USE	TW	95148892	13-Feb-	Pending
IN DISPLAY APPLICATIONS			2006	
REFERENCE VOLTAGE GENERATOR FOR USE	l _{TW}	95104701	13-Feb-	Pending
IN DISPLAY APPLICATIONS		33101701	2006	T CHAINS
PWM CONTROLLER WITH DUAL-EDGE	EP	06100499.0	18-Jan-	Pending
MODULATION USING DUAL RAMPS		00100455.0	2006	T CHAINS
PWM CONTROLLER WITH DUAL-EDGE	FR	06100499.0	18-Jan-	Pending
MODULATION USING DUAL RAMPS	111	00100455.0	2006	rending
PWM CONTROLLER WITH DUAL-EDGE	IT	06100499.0	18-Jan-	Pending
MODULATION USING DUAL RAMPS	11	00100499.0	2006	rending
PWM CONTROLLER WITH DUAL-EDGE	DE	06100499.0	18-Jan-	Pending
MODULATION USING DUAL RAMPS	DE	00100499.0	2006	rending
BIPOLAR STRUCTURES HAVING IMPROVED			17 Δμα	
BVCEO/Rcs TRADE OFF MADE WITH	TW	95130207	17-Aug- 2006	Published
DEPLETABLE COLLECTOR COLUMNS			2006	
BIPOLAR STRUCTURES HAVING IMPROVED			01.500	
BVCEO/Rcs TRADE OFF MADE WITH	wo	034224	01-Sep- 2006	Pending
DEPLETABLE COLLECTOR COLUMNS			2006	
BIPOLAR STRUCTURES HAVING IMPROVED			20 Fala	
BVCEO/Rcs TRADE OFF MADE WITH	JP	100071526	28-Feb-	Published
DEPLETABLE COLLECTOR COLUMNS			2008	
BIPOLAR STRUCTURES HAVING IMPROVED			20 Fala	
BVCEO/Rcs TRADE OFF MADE WITH	KR	2008-7004866	28-Feb-	Pending
DEPLETABLE COLLECTOR COLUMNS			2008	
BIPOLAR STRUCTURES HAVING IMPROVED			20 Fala	
BVCEO/Rcs TRADE OFF MADE WITH	CN	200680032231	28-Feb-	Pending
DEPLETABLE COLLECTOR COLUMNS			2008	_
BIPOLAR STRUCTURES HAVING IMPROVED			20 5 1	
BVCEO/Rcs TRADE OFF MADE WITH	EP	06802800.0	29-Feb-	Pending
DEPLETABLE COLLECTOR COLUMNS			2008	-
GATE DRIVER TOPOLOGY FOR MAXIMUM	T	06440400	10-Apr-	.
LOAD EFFICIENCY	TW	96112429	2007	Pending
GATE DRIVER TOPOLOGY FOR MAXIMUM	CNI	10120222.0	29-Jun-	Destate 1
LOAD EFFICIENCY	CN	10129038.9	2007	Published
CIRCUIT FOR MULTIPLEXING DIGITAL AND				
ANALOG INFORMATION VIA SINGLE PIN OF	T.,,	05435335	27-Sep-	D. 1.11.1
DRIVER FOR SWITCHED MOSFETS OF DC-DC	TW	95135725	2006	Published
CONVERTER				

Title	Jurisdiction	Reg. No./ Serial No.	Filing Date / Reg. Date	Status
CIRCUIT FOR MULTIPLEXING DIGITAL AND ANALOG INFORMATION VIA SINGLE PIN OF DRIVER FOR SWITCHED MOSFETS OF DC-DC CONVERTER	CN	200610171905	28-Sep- 2006	Published
COMPENSATION OFFSET ADJUSTMENT SCHEME FOR FAST REFERENCE VOLTAGE TRANSITIONING	TW	95139127	24-Oct- 2006	Pending
COMPENSATION OFFSET ADJUSTMENT SCHEME FOR FAST REFERENCE VOLTAGE TRANSITIONING	CN	10064228.2	16-Nov- 2006	Published
ADAPTIVE PWM PULSE POSITION FOR FAST TRANSIENT RESPONSE	TW	95139125	24-Oct- 2006	Pending
BIDIRECTIONAL COMMUNICATION PROTOCOL BETWEEN A SERIALIZER AND A DESERIALIZER	WO	07/075912	14-Aug- 2007	Pending
BIDIRECTIONAL COMMUNICATION PROTOCOL BETWEEN A SERIALIZER AND A DESERIALIZER	TW	96129944	14-Aug- 2007	Pending
BIDIRECTIONAL COMMUNICATION PROTOCOL BETWEEN A SERIALIZER AND A DESERIALIZER	EP	07840936.4	14-Aug- 2007	Pending
BIDIRECTIONAL COMMUNICATION PROTOCOL BETWEEN A SERIALIZER AND A DESERIALIZER	CN	200780030295	13-Mar- 2009	Pending
A MULTIPLE TIME PROGRAMMABLE (MTP) PMOS FLOATING-GATE-BASED NON- VOLATILE ELEMENT FOR A GENERAL- PURPOSE CMOS TECHNOLOGY WITH THICK GATE OXIDE	TW	96113629	18-Apr- 2007	Published
A MULTIPLE TIME PROGRAMMABLE (MTP) PMOS FLOATING-GATE-BASED NON- VOLATILE ELEMENT FOR A GENERAL- PURPOSE CMOS TECHNOLOGY WITH THICK GATE OXIDE	CN	200710101379	20-Apr- 2007	Pending
REDUCING POWER CONSUMPTION ASSOCIATED WITH HIGH BIAS CURRENTS IN SYSTEMS THAT DRIVE OR OTHERWISE CONTROL DISPLAYS	JP	2009-530507	05-Sep- 2007	Pending
REDUCING POWER CONSUMPTION ASSOCIATED WITH HIGH BIAS CURRENTS IN SYSTEMS THAT DRIVE OR OTHERWISE CONTROL DISPLAYS	WO	US07/77595	05-Sep- 2007	Pending
REDUCING POWER CONSUMPTION ASSOCIATED WITH HIGH BIAS CURRENTS IN SYSTEMS THAT DRIVE OR OTHERWISE CONTROL DISPLAYS	TW	96133386	07-Sep- 2007	Pending
REDUCING POWER CONSUMPTION ASSOCIATED WITH HIGH BIAS CURRENTS IN SYSTEMS THAT DRIVE OR OTHERWISE	CN	200780039763	20-Apr- 2009	Pending

Title	Jurisdiction	Reg. No./ Serial No.	Filing Date / Reg. Date	Status
CONTROL DISPLAYS				
REDUCING POWER CONSUMPTION ASSOCIATED WITH HIGH BIAS CURRENTS IN SYSTEMS THAT DRIVE OR OTHERWISE CONTROL DISPLAYS	KR	2009-7008101	30-Apr- 2009	Pending
DC-DC CONVERTERS HAVING IMPROVED CURRENT SENSING AND RELATED METHODS	TW	95136835	04-Oct- 2006	Pending
DC-DC CONVERTERS HAVING IMPROVED CURRENT SENSING AND RELATED METHODS	CN	200610136584	23-Oct- 2006	Pending
VOLTAGE REGULATOR HAVING CURRENT CANCELING COMPENSATION	TW	95137301	11-Oct- 2006	Pending
VOLTAGE REGULATOR HAVING CURRENT CANCELING COMPENSATION	CN	200610136583	23-Oct- 2006	Pending
METHOD AND APPARATUS FOR SHIELDING TUNNELING CIRCUIT AND FLOATING GATE FOR INTEGRATION OF A FLOATING GATE VOLTAGE REFERENCE IN A GENERAL PURPOSE CMOS TECHNOLOGY	TW	96129941	14-Aug- 2007	Published
METHOD AND APPARATUS FOR SHIELDING TUNNELING CIRCUIT AND FLOATING GATE FOR INTEGRATION OF A FLOATING GATE VOLTAGE REFERENCE IN A GENERAL PURPOSE CMOS TECHNOLOGY	CN	200780031191	20-Aug- 2007	Pending
METHOD AND APPARATUS FOR SHIELDING TUNNELING CIRCUIT AND FLOATING GATE FOR INTEGRATION OF A FLOATING GATE VOLTAGE REFERENCE IN A GENERAL PURPOSE CMOS TECHNOLOGY	FR	EP07811445	20-Aug- 2007	Published
METHOD AND APPARATUS FOR SHIELDING TUNNELING CIRCUIT AND FLOATING GATE FOR INTEGRATION OF A FLOATING GATE VOLTAGE REFERENCE IN A GENERAL PURPOSE CMOS TECHNOLOGY	DE	EP07811445	20-Aug- 2007	Published
METHOD AND APPARATUS FOR SHIELDING TUNNELING CIRCUIT AND FLOATING GATE FOR INTEGRATION OF A FLOATING GATE VOLTAGE REFERENCE IN A GENERAL PURPOSE CMOS TECHNOLOGY	IT	EP07811445	20-Aug- 2007	Published
METHOD AND APPARATUS FOR SHIELDING TUNNELING CIRCUIT AND FLOATING GATE FOR INTEGRATION OF A FLOATING GATE VOLTAGE REFERENCE IN A GENERAL PURPOSE CMOS TECHNOLOGY	EP	EP07811445	20-Aug- 2007	Published
METHOD AND APPARATUS FOR SHIELDING TUNNELING CIRCUIT AND FLOATING GATE FOR INTEGRATION OF A FLOATING GATE VOLTAGE REFERENCE IN A GENERAL	JP	2009-525600	20-Feb- 2009	Pending

Title	Jurisdiction	Reg. No./ Serial No.	Filing Date / Reg. Date	Status
PURPOSE CMOS TECHNOLOGY				
USE OF DIFFERENTIAL PAIR AS SINGLE- ENDED DATA PATHS TO TRANSPORT LOW SPEED DATA	wo	07/079715	27-Sep- 2007	Published
USE OF DIFFERENTIAL PAIR AS SINGLE- ENDED DATA PATHS TO TRANSPORT LOW SPEED DATA	TW	96136528	29-Sep- 2007	Pending
LIGHT SENSORS WITH INFRARED SUPPRESSION	wo	2007/086528	05-Dec- 2007	Pending
LIGHT SENSORS WITH INFRARED SUPPRESSION	TW	96146710	07-Dec- 2007	Pending
LIGHT SENSORS WITH INFRARED SUPPRESSION	CN	200780045707	11-Jun- 2009	Pending
LIGHT SENSORS WITH INFRARED SUPPRESSION	DE	112007003037	12-Jun- 2009	Pending
CRADLE CHARGER CONTROLLER WITH BELOW GROUND LEVEL BIASING	TW	97103888	01-Feb- 2008	Published
CRADLE CHARGER CONTROLLER WITH BELOW GROUND LEVEL BIASING	CN	20080011863	01-Feb- 2008	Published
CRADLE CHARGER CONTROLLER WITH BELOW GROUND LEVEL BIASING	wo	08/052746	01-Feb- 2008	Published
AMBIENT LIGHT SENSOR USING CONVENTIONAL CMOS IMAGE SENSOR PROCESS	wo	08/051450	18-Jan- 2008	Pending
AMBIENT LIGHT SENSOR USING CONVENTIONAL CMOS IMAGE SENSOR PROCESS	CN	200880004357 .X	18-Jan- 2008	Pending
AMBIENT LIGHT SENSOR USING CONVENTIONAL CMOS IMAGE SENSOR PROCESS	TW	97102319	22-Jan- 2008	Pending
AMBIENT LIGHT SENSOR USING CONVENTIONAL CMOS IMAGE SENSOR PROCESS	DE	112008000380	10-Aug- 2009	Pending
MULTI-MODULE CURRENT SHARING SCHEME	TW	971044155	04-Feb- 2008	Pending
MULTI-MODULE CURRENT SHARING SCHEME	CN	10088348.5	28-Mar- 2008	Pending
IMPROVED BURIED ISOLATION LAYER	wo	08/063939	16-May- 2008	Pending
IMPROVED BURIED ISOLATION LAYER	TW	97119329	26-May- 2008	Pending
IMPROVED BURIED ISOLATION LAYER	EP	087557385	27-Nov- 2009	Pending
IMPROVED BURIED ISOLATION LAYER	KR	20097027527	30-Dec- 2009	Pending
INTEGRATED CIRCUIT WITH A SUBSURFACE DIODE	TW	97113566	27-Mar- 2008	Published
INTEGRATED CIRCUIT WITH A SUBSURFACE	wo	08/58560	28-Mar-	Pending

Title	Jurisdiction	Reg. No./ Serial No.	Filing Date / Reg. Date	Status
DIODE			2008	
INTEGRATED CIRCUIT WITH A SUBSURFACE DIODE	EP	08732969.4	27-Nov- 2009	Pending
INTEGRATED CIRCUIT WITH A SUBSURFACE DIODE	CN	200880020977	18-Dec- 2009	Pending
INTEGRATED CIRCUIT WITH A SUBSURFACE DIODE	KR	09-7027435	30-Dec- 2009	Pending
PULSE-ADDING SCHEME FOR SMOOTH PHASE DROPPING AT LIGHT LOAD CONDITION	TW	97107812	06-Mar- 2008	Published
PULSE-ADDING SCHEME FOR SMOOTH PHASE DROPPING AT LIGHT LOAD CONDITION	EP	08155604.5	02-May- 2008	Pending
PULSE-ADDING SCHEME FOR SMOOTH PHASE DROPPING AT LIGHT LOAD CONDITION	CN	10095275.2	04-May- 2008	Pending
JUNCTION BARRIER SCHOTTKY DIODE	wo	US08/63251	09-May- 2008	Pending
JUNCTION BARRIER SCHOTTKY DIODE	KR	2009-7023127	09-Nov- 2009	Pending
RF-COUPLED DIGITAL ISOLATOR	wo	08/057909	21-Mar- 2008	Pending
RF-COUPLED DIGITAL ISOLATOR	CN	20080015420. X	21-Mar- 2008	Pending
RF-COUPLED DIGITAL ISOLATOR	TW	97112605	08-Apr- 2008	Pending
JUNCTION BARRIER SCHOTTKY DIODE WITH DUAL SILICIDES AND METHOD OF MANUFACTURE	TW	97113566	15-Apr- 2008	Published
JUNCTION BARRIER SCHOTTKY DIODE WITH DUAL SILICIDES AND METHOD OF MANUFACTURE	WO	US08/63251	09-Jun- 2008	Pending
JUNCTION BARRIER SCHOTTKY DIODE WITH DUAL SILICIDES AND METHOD OF MANUFACTURE	KR	7023127	05-Nov- 2009	Pending
JUNCTION BARRIER SCHOTTKY DIODE WITH DUAL SILICIDES AND METHOD OF MANUFACTURE	EP	08795848.4	01-Dec- 2009	Pending
JUNCTION BARRIER SCHOTTKY DIODE WITH DUAL SILICIDES AND METHOD OF MANUFACTURE	CN	200880017609	25-Dec- 2009	Pending
OVER-VOLTAGE PROTECTED BATTERY CHARGER WITH BYPASS	TW	97115190	25-Apr- 2008	Published
OVER-VOLTAGE PROTECTED BATTERY CHARGER WITH BYPASS	CN	200810127911	19-Jun- 2008	Pending
OVER-VOLTAGE PROTECTED BATTERY CHARGER WITH BYPASS	KR	0057720	19-Jun- 2008	Pending
CLOSED LOOP, STEADY STATE FREQUENCY	TW	97119653	28-May-	Pending

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Title	Jurisdiction	Reg. No./ Serial No.	Date/	Status
		SCHAIL 140.	Reg. Date	
CONTROL OF VARIABLE FREQUENCY			2008	
SWITCHER ARCHITECTURES				
CLOSED LOOP, STEADY STATE FREQUENCY				
CONTROL OF VARIABLE FREQUENCY	EP	08159616	03-Jul-2008	Pending
SWITCHER ARCHITECTURES				
CLOSED LOOP, STEADY STATE FREQUENCY				
CONTROL OF VARIABLE FREQUENCY	CN	10214775	07-Jul-2008	Pending
SWITCHER ARCHITECTURES				
LOAD CURRENT COMPENSATION IN	wo	080/070919	08-Sep-	Published
SYNCHRONOUS POWER CONVERTERS	***	000/070313	2008	Tablistica
DEAD-TIME TRANSITION ADJUSTMENTS	wo	08/70887	23-Jul-2008	Published
FOR SYNCHRONOUS POWER CONVERTERS	VVO	00/70007	23 301 2000	Tablistica
DEAD-TIME TRANSITION ADJUSTMENTS	TW	97127901	23-Jul-2008	Pending
FOR SYNCHRONOUS POWER CONVERTERS	1 00	9/12/901	23-301-2008	rending
DEAD-TIME TRANSITION ADJUSTMENTS	EP	08782260.7	20-Jan-	Pending
FOR SYNCHRONOUS POWER CONVERTERS	Cr Cr	08782200.7	2010	rending
VOLTAGE CONVERTER WITH COMBINED				
BUCK CONVERTER AND CAPACITIVE	JP	2009-540523	31-Jul-2008	Pending
VOLTAGE DIVIDER				
VOLTAGE CONVERTER WITH COMBINED				
BUCK CONVERTER AND CAPACITIVE	EP	8794905.3	31-Jul-2008	Pending
VOLTAGE DIVIDER				
VOLTAGE CONVERTER WITH COMBINED				
BUCK CONVERTER AND CAPACITIVE	wo	08/009237	31-Jul-2008	Pending
VOLTAGE DIVIDER				
VOLTAGE CONVERTER WITH COMBINED			01 4	
BUCK CONVERTER AND CAPACITIVE	TW	97129191	01-Aug-	Pending
VOLTAGE DIVIDER			2008	
VOLTAGE CONVERTER WITH COMBINED			20. 4	
BUCK CONVERTER AND CAPACITIVE	KR	20097008838	29-Apr-	Pending
VOLTAGE DIVIDER			2009	
VOLTAGE CONVERTER WITH COMBINED			20.1	
BUCK CONVERTER AND CAPACITIVE	CN		20-Jan-	Pending
VOLTAGE DIVIDER			2010	
TUNABLE VOLTAGE ISOLATION GROUND	CNI		02-Apr-	Dandina
TO GROUND ESD CLAMP	CN		2008	Pending
TUNABLE VOLTAGE ISOLATION GROUND	14/0	00/70442	08-Oct-	Doublists of
TO GROUND ESD CLAMP	wo	08/79143	2008	Published
TUNABLE VOLTAGE ISOLATION GROUND	T) 1 (07420662	08-Oct-	B 1111 1
TO GROUND ESD CLAMP	TW	97138663	2008	Published
TUNABLE VOLTAGE ISOLATION GROUND	1/5	2010 7007554	07-Apr-	D P
TO GROUND ESD CLAMP	KR	2010-7007551	2010	Pending
TUNABLE VOLTAGE ISOLATION GROUND	F5	00007061.6	07-Apr-	D !!
TO GROUND ESD CLAMP	EP	08837261.0	2010	Pending
SWITCHING REGULATOR WITH BALANCED			20.1	
CONTROL CONFIGURATION TO ELMINATE	TW	097146161	28-Nov-	Pending
COMPENSATION			2008	
SWITCHING REGULATOR WITH BALANCED	WO	08/85071	28-Nov-	Pending

Title	Jurisdiction	Reg. No./	Filing Date /	Status
	•	Serial No.	Reg. Date	
CONTROL CONFIGURATION TO ELMINATE			2008	
COMPENSATION				
MODULATOR WITH LINEAR PERIOD	CN	200810175056	24-Oct-	Donding
STRETCHING CAPABILITY	CIV	200810173030	2008	Pending
SYSTEM AND METHOD FOR IMPROVING			05-Dec-	
INDUCTOR CURRENT SENSING ACCURACY	CN	tbd	2008	Pending
OF A DC/DC VOLTAGE REGULATOR			2000	
SYSTEM AND METHOD FOR IMPROVING			05-Dec-	
INDUCTOR CURRENT SENSING ACCURACY	wo	08/08566	2008	Pending
OF A DC/DC VOLTAGE REGULATOR				
SYSTEM AND METHOD FOR IMPROVING			05-Dec-	
INDUCTOR CURRENT SENSING ACCURACY	TW	97147234	2008	Pending
OF A DC/DC VOLTAGE REGULATOR				
SYSTEM AND METHOD FOR IMPROVING			08-Apr-	
INDUCTOR CURRENT SENSING ACCURACY	KR	10-7007619	2010	Pending
OF A DC/DC VOLTAGE REGULATOR			22.0	
PROXIMITY SENSORS AND METHODS FOR	wo	08/80985	23-Oct-	Pending
SENSING PROXIMITY			2008	_
PROXIMITY SENSORS AND METHODS FOR	TW	97141138	27-Oct-	Pending
SENSING PROXIMITY			2008	
WAVEFORM CURRENT MONITOR USING	wo	09/031480	21-Jan- 2009	Published
RDSON OF LOW-SIDE BRIDGE FET WAVEFORM CURRENT MONITOR USING			2009 11-Feb-	
RDSON OF LOW-SIDE BRIDGE FET	TW	98104292	2009	Published
HIGH-SIDE SENSING OF ZERO INDUCTOR			2009	
CURRENT FOR STEP DOWN DC-DC	l wo	US09/35821	03-Mar-	Published
CONVERTER	VVO	0309/33821	2009	Fubilished
HIGH-SIDE SENSING OF ZERO INDUCTOR				
CURRENT FOR STEP DOWN DC-DC	l _{TW}	98 106796	03-Mar-	Published
CONVERTER		30 100730	2009	1 dononed
		_	05-Jun-	
HYBRID LASER DIODE DRIVERS	wo	09/046381	2009	Pending
			05-Jun-	
HYBRID LASER DIODE DRIVERS	TW	98118686	2009	Pending
DYNAMIC HEADROOM CONTROL FOR LED			4444	
DRIVER	KR	2009-64209	14-Jul-2009	Pending
DYNAMIC HEADROOM CONTROL FOR LED	T) 4 /	00422747	14 1.1 2000	Destate 1
DRIVER	TW	98123717	14-Jul-2009	Published
DYNAMIC HEADROOM CONTROL FOR LED	CNI	10100457.0	4F Iol 2000	Danalin -
DRIVER	CN	10160457.8	15-Jul-2009	Pending
CHORDER CTARWIZER ANARYSES	T\4/	00011520	04-Jun-	Danalin -
CHOPPER STABILIZED AMPLIFIER	TW	09811520	2009	Pending
CHORDER STARILIZED ANADULEED	CNI	200880004357	09-Jun-	Donding
CHOPPER STABILIZED AMPLIFIER	CN	.X	2009	Pending
CHORDED STADILIZED ANADLIEUD	DE	+ 4 4	10-Jun-	Donding
CHOPPER STABILIZED AMPLIFIER	DE	tbd	2009	Pending
VOLTAGE CONVERTER WITH COMBINED	wo	08/009247	31-Jul-2008	Pending
CAPACITIVE VOLTAGE DIVIDER, BUCK	VV C	00/00924/	21-Jul-2000	renung

Title	Jurisdiction	Reg. No./ Serial No.	Filing Date /	Status
CONVENTED AND DATTEDY CHARGED			Reg. Date	
CONVERTER AND BATTERY CHARGER				
VOLTAGE CONVERTER WITH COMBINED			01-Aug-	
CAPACITIVE VOLTAGE DIVIDER, BUCK	TW	97129190	2008	Pending
CONVERTER AND BATTERY CHARGER				
VOLTAGE CONVERTER WITH COMBINED			24-Apr-	
CAPACITIVE VOLTAGE DIVIDER, BUCK	KR	7008518	2009	Pending
CONVERTER AND BATTERY CHARGER				
VOLTAGE CONVERTER WITH COMBINED		F 4050 4	20-May-	D 11
CAPACITIVE VOLTAGE DIVIDER, BUCK	JP	540524	2009	Pending
CONVERTER AND BATTERY CHARGER				
VOLTAGE CONVERTER WITH COMBINED		00/704045 2	02-Sep-	D a sa all'an a
CAPACITIVE VOLTAGE DIVIDER, BUCK	EP	08/794915.2	2009	Pending
CONVERTER AND BATTERY CHARGER				
ADVANCED PHASE NUMBER CONTROL FOR		0004047222		
IMPROVED EFFICIENCY AND FAST	CN	00910173330.	14-Jul-2009	Pending
TRANSIENT RESPONSE IN MULTIPHASE		X		_
CONVERTER APPLICATIONS				
ADVANCED PHASE NUMBER CONTROL FOR IMPROVED EFFICIENCY AND FAST				
TRANSIENT RESPONSE IN MULTIPHASE	TW	98123720	14-Jul-2009	Published
CONVERTER APPLICATIONS				
BUCK CONTROLLER INTEGRATED WITH	TW	98124220	17-Jul-2009	Published
BOOST CONTROL AND DRIVER BUCK CONTROLLER INTEGRATED WITH				
BOOST CONTROLLER INTEGRATED WITH	DE	102009026218	21-Jul-2009	Published
BUCK CONTROLLER INTEGRATED WITH				
BOOST CONTROLLER INTEGRATED WITH	CN	10161165.6	29-Jul-2009	Published
SYSTEM AND METHOD FOR REDUCING				
VOLTAGE OVERSHOOT DURING LOAD	l _{TW}	98124806	23-Jul-2009	Published
RELEASE WITHIN A BUCK REGULATOR	100	98124800	23-301-2009	Fubilistieu
SYSTEM AND METHOD FOR REDUCING				
VOLTAGE OVERSHOOT DURING LOAD	CN	200910173378	23-Jul-2009	Pending
RELEASE WITHIN A BUCK REGULATOR		200310173370	23 341 2003	renang
IMPROVED DUAL RAMP MODULATOR	TW	98125171	27-Jul-2009	Pending
			05-Aug-	_
IMPROVED DUAL RAMP MODULATOR	CN	0910159281.4	2009	Published
PWM CLOCK GENERATION SYSTEM AND				
METHOD TO IMPROVE TRANSIENT	TW	98125169	27-Jul-2009	Published
RESPONSE OF A VOLTAGE REGULATOR				
PWM CLOCK GENERATION SYSTEM AND			OE Aug	
METHOD TO IMPROVE TRANSIENT	CN	10159283.3	05-Aug- 2009	Pending
RESPONSE OF A VOLTAGE REGULATOR			2003	
CONSTANT LOOP GAIN CONTROL FOR	TW	98128339	24-Aug-	Pending
BUCK REGULATOR/MODULE	I VV	20120333	2009	rending
CONSTANT LOOP GAIN CONTROL FOR	CN 200910178748 23-Sep-	CN 200910178748 23-Sep-	CN 200910178748 23-Sep-	Pending
BUCK REGULATOR/MODULE	CIV	200310170740	2009	i chang
PHASE SWAPPER SCHEME FOR IMPROVED	l _{tw}	98 12499	24-Jul-2009	Pending
PHASE CURRENT BALANCE IN PHASE	. **	30 12433	2134, 2003	, criding

Title	Jurisdiction	Reg. No./ Serial No.	Filing Date /	Status	
DOUBLER			Reg. Date		
PHASE SWAPPER SCHEME FOR IMPROVED					
	DE	2000042019.9	01-Sep-	Donding	
PHASE CURRENT BALANCE IN PHASE DOUBLER	DE	2009043918.8	2009	Pending	
PHASE SWAPPER SCHEME FOR IMPROVED					
PHASE CURRENT BALANCE IN PHASE	CN	200910205000	29-Sep-	Donding	
DOUBLER	CN	200910205000	2009	Pending	
CALIBRATION OF TWO-CHANNEL TIME-					
INTERLEAVED ANALOG-TO-DIGITAL	CN	200910266822	28-Dec-	Donding	
CONVERTERS	CN	200910200822	2009	Pending	
SYSTEM AND METHOD FOR PHASE			25-Mar-		
DROPPING AND ADDING	DE	102010016136	2010	Pending	
SYSTEM AND METHOD FOR PHASE			25-Mar-		
DROPPING AND ADDING	CN	tbd	2010	Pending	
SYSTEM AND METHOD FOR PHASE			25-Mar-		
DROPPING AND ADDING	TW	99108857	2010	Pending	
CO-PACKAGING APPROACH FOR POWER			2010		
CONVERTERS BASED ON PLANAR DEVICES,	l _{tw}	98143097	16-Dec-	Pending	
STRUCTURE AND METHOD	100	98143097	2009	2009	rending
CO-PACKAGING APPROACH FOR POWER					
CONVERTERS BASED ON PLANAR DEVICES,	EP	EP09180016.9	18-Dec-	Pending	
STRUCTURE AND METHOD		21 03100010.3	2009	renang	
CO-PACKAGING APPROACH FOR POWER					
CONVERTERS BASED ON PLANAR DEVICES,	CN	2009-128590	22-Dec-	Pending	
STRUCTURE AND METHOD			2009		
CO-PACKAGING APPROACH FOR POWER					
CONVERTERS BASED ON PLANAR DEVICES,	KR	20090128590	22-Dec-	Pending	
STRUCTURE AND METHOD			2009		
ADAPTIVE PWM PULSE POSITION FOR FAST	T) 4.4	00435543	40 1 1 2000	D 1'	
TRANSIENT RESPONSE	TW	98125513	19-Jul-2009	Pending	
ADAPTIVE PWM PULSE POSITION FOR FAST	CN	12272441	17-Nov-	Dandina	
TRANSIENT RESPONSE	CN	12273441	2009	Pending	
IMPROVED N-BIT PIN ADC READER	CNI	+b d	07-Jan-	Donding	
IIVIPROVED IN-BIT PIN ADC READER	CN	tbd	2010	Pending	
IMPROVED N-BIT PIN ADC READER	TW	99100214	07-Jan-	Pending	
IIVIPROVED IN-BIT PIIN ADC READER	IVV	99100214	2010	Pending	
ACTIVE DROOP CURRENT SHARING	CN	200910173353	20-Jul-2009	Pending	
ACTIVE DROOP CURRENT SHARING	TW	98124396	20-Jul-2009	Published	
ADDING AND DROPPING PHASES IN	CN	200910173352	20-Jul-2009	Pending	
CURRENT SHARING	CIV	200910173332	20-301-2009	rending	
ADDING AND DROPPING PHASES IN	l _{TW}	98124397	20-Jul-2009	Published	
CURRENT SHARING	1 00	30124337	20-301-2003	rubiisiieu	
INTELLIGENT MANAGEMENT OF CURRENT	CN	200910173354	20-Jul-2009	Pending	
SHARING GROUP	CIV	200310173334	20 301-2009	r chang	
INTELLIGENT MANAGEMENT OF CURRENT	TW	98124398	20-Jul-2009	Published	
SHARING GROUP	1 7 7	30124330	20 301-2003	i upiisiicu	
METHOD TO PROPERLY RAMP CURRENT	DE	202009009853	20-Jul-2009	Pending	
SHARING RAIL				2 2	

Title	Jurisdiction	Reg. No./ Serial No.	Filing Date / Reg. Date	Status
METHOD TO PROPERLY RAMP CURRENT SHARING RAIL	CN	200910173351	20-Jul-2009	Pending
METHOD TO PROPERLY RAMP CURRENT SHARING RAIL	TW	098124399	20-Jul-2009	Published
STACKED POWER CONVERTER STRUCTURE AND METHOD	WO	US09/064748	17-Nov- 2009	Pending
SINGLE DIE OUTPUT POWER STAGE USING TRENCH-GATE LOW-SIDE AND LDMOS HIGH-SIDE MOSFETS, STRUCTURE AND METHOD	TW	98143267	17-Dec- 2009	Pending
SINGLE DIE OUTPUT POWER STAGE USING TRENCH-GATE LOW-SIDE AND LDMOS HIGH-SIDE MOSFETS, STRUCTURE AND METHOD	EP	09180025.0	18-Dec- 2009	Pending
SINGLE DIE OUTPUT POWER STAGE USING TRENCH-GATE LOW-SIDE AND LDMOS HIGH-SIDE MOSFETS, STRUCTURE AND METHOD	CN	tbd	22-Dec- 2009	Pending
SINGLE DIE OUTPUT POWER STAGE USING TRENCH-GATE LOW-SIDE AND LDMOS HIGH-SIDE MOSFETS, STRUCTURE AND METHOD	KR	2009-128591	22-Dec- 2009	Pending
A CIRCUIT TO MULTIPLEX A CURRENT LIMITING INPUT TO AN OPEN-DRAIN OUTPUT	TW	99105927	02-Mar- 2010	Pending
A CIRCUIT TO MULTIPLEX A CURRENT LIMITING INPUT TO AN OPEN-DRAIN OUTPUT	wo	US2010/02591 1	02-Mar- 2010	Pending
SOLAR CELL WITH INTEGRATED SWITCH AND CONNECTION METHOD	TW	99102108	26-Jan- 2010	Pending
SOLAR CELL WITH INTEGRATED SWITCH AND CONNECTION METHOD	CN	201010118628	28-Jan- 2010	Pending
UN-BUFFERED SEGMENTED R-DAC WITH SWITCH CURRENT REDUCTION	EP	10157599.1	26-Feb- 2010	Pending
UN-BUFFERED SEGMENTED R-DAC WITH SWITCH CURRENT REDUCTION	CN	tbd	30-Mar- 2010	Pending
UN-BUFFERED SEGMENTED R-DAC WITH SWITCH CURRENT REDUCTION	TW	99109558	30-Mar- 2010	Pending
SYSTEM AND METHOD FOR DETERMINING OUTPUT VOLTAGE LEVEL INFORMATION FROM PHASE VOLTAGE FOR SWITCHED MODE REGULATOR CONTROLLERS	TW	99110976	09-Apr- 2010	Pending
LOW THERMAL RESISTANCE AND ROBUST CHIP-SCALE-PACKAGE (CSP), STRUCTURE AND METHOD	WO	US10/26820	10-Mar- 2010	Pending
TRANSIENT SUPPRESSION FOR BOOT REGULATOR	TW	98123719	14-Jul-2009	Published
TRANSIENT SUPPRESSION FOR BOOT	KR	2009-64210	14-Jul-2009	Pending

Title	Jurisdiction	Reg. No./ Serial No.	Filing Date / Reg. Date	Status
REGULATOR				
TRANSIENT SUPPRESSION FOR BOOT	CN	10160456.3	15-Jul-2009	Pending
REGULATOR	CIV	10160456.5	15-Jul-2009	Pending

Elantec Semiconductor, Inc. – U.S. Registered Patents and Patent Applications

		Reg. No./	Filing Date	e
Title	Jurisdiction	Serial No.	Reg. Date	Status
INPUT BIAS CURRENT COMPENSATION FOR A COMPARATOR	United States	5128564	07-Jul-1992	Granted
SLEW CONTROL IN CURRENT FEEDBACK AMPLIFIERS	United States	5179355	12-Jan-1993	Granted
CURRENT MIRROR WITH ERROR CORRECTION	United States	5321371	14-Jun-1994	Granted
CIRCUIT FOR INTRODUCING HYSTERISIS	United States	5334883	02-Aug-1994	Granted
LEVEL SHIFTER CIRCUIT	United States	5341047	23-Aug-1994	Granted
LOW INPUT RESISTANCE CURRENT-MODE FEEDBACK OPERATIONAL AMPLIFIER INPUT STAGE	United States	5351012	27-Sep-1994	Granted
ANALOG MULTIPLEXER	United States	5352987	04-Oct-1994	Granted
LOW INPUT RESISTANCE AMPLIFIER STAGE	United States	5352989	04-Oct-1994	Granted
COMPLEMENTARY GAIN CONTROL CIRCUIT	United States	5374898	20-Dec-1994	Granted
COMPLEMENTARY ANALOG MULTIPLIER CIRCUITS WITH DIFFERENTIAL GROUND REFERENCED OUTPUTS AND SWITCHING CAPABILITY	United States	5389840	14-Feb-1995	Granted
INPUT STAGE IMPROVEMENTS FOR CURRENT FEEDBACK AMPLIFIERS	United States	5418495	23-May-1995	Granted
VARACTOR COMPENSATION IN AMPLIFIER CIRCUITS	United States	5420542	30-May-1995	Granted
DIFFERENTIAL AMPLIFIER MULTIPLEXER	United States	5426396	20-Jun-1995	Granted
DIFFERENTIAL ANALOG MEMORY CELL AND METHOD FOR ADJUSTING SAME	United States	5430670	04-Jul-1995	Granted
ACTIVE FOLDED CASCODE	United States	5469104	21-Nov-1995	Granted
VOLTAGE CONTROLLED AMPLIFIER WHICH REDUCES DIFFERENTIAL GAIN	United States	5469106	21-Nov-1995	Granted
CLASS AB COMPLEMENTARY OUTPUT STAGE	United States	5475343	12-Dec-1995	Granted
ULTRA HIGH GAIN AMPLIFIER	United States	5479133	26-Dec-1995	Granted
SYNCHRONIZING SIGNAL ACTIVE FILTER AND METHOD	United States	5528303	18-Jun-1996	Granted
AMPLIFIER CIRCUIT WITH DYNAMIC OUTPUT STAGE BIASING	United States	5568090	22-Oct-1996	Granted
CIRCUIT COMPENSATING FOR CAPACITANCE AT INVERTING INPUT OF	United States	5578967	26-Nov-1996	Granted

1567510.05-NewYork Server7A - MSW

Title	Jurisdiction	Reg. No./	Filing Date	Status
THE	Junguenon	Serial No.	Reg. Date	Sidia
CURRENT FEEDBACK AMPLIFIER			5	
ULTRA HIGH GAIN AMPLIFIER	United States	5614866	25-Mar-1997	Granted
SEMICONDUCTOR WAFER HAVING SLICES				2, 2, 1, 1, 2
AND LIMITED SCRIBE AREAS FOR	United States	5656851	12-Aug-1997	Granted
IMPLEMENTING DIE				
HIGH PRECISION POLISHING TOOL	United States	5681216	28-Oct-1997	Granted
MONOLITHIC POWER CONVERTER WITH A				
POWER SWITCH AS A CURRENT SENSING	United States	5723974	03-Mar-1998	Granted
ELEMENT				
A POWER CONTROL CHIP WITH CIRCUITRY				
THAT ISOLATES SWITCHING ELEMENTS	United States	5793126	11-Aug-1998	Granted
AND BOND WIRES FOR TESTING				
DIFFERENTIAL AMPLIFIER WITH IMPROVED	United States	5812026	22-Sep-1998	Granted
VOLTAGE GAIN		3012020	22-3cp-1330	Granted
GAS AGITATED LIQUID ETCHER	United States	5846374	08-Dec-1998	Granted
VIDEO SYNC SIGNAL SLICING USING	United States	5867222	02-Feb-1999	Granted
VARIABLE GAIN CONTROL	Office States	3007222	02 100 1999	Granted
CONSTANT AMPLITUDE VS. FREQUENCY	United States	5874865	23-Feb-1999	Granted
OSCILLATOR		307 1003	20 100 1333	ordined.
REDUCED OUTPUT CAPACITANCE CIRCUIT	United States	5898334	27-Apr-1999	
FOR DRIVING A GROUNDED LOAD IN				Granted
RESPONSE TO A STEPPED INPUT				
SILICON ON INSULATOR PROCESS WITH			16 Nov. 1000	C
RECOVERY OF A DEVICE LAYER FROM AN	United States	5985728	16-Nov-1999	Granted
ETCH STOP LAYER DIFFERENTIAL AMPLIFIER WITH IMPROVED				
VOLTAGE GAIN USING OPERATIONAL				
AMPLIFIERS TO ELEIMINATE DIODE	United States	6031424	29-Feb-2000	Granted
VOLTAGE DROPS				
METHOD FOR MAKING A CONTACT				
STRUCTURE FOR A POLYSILICON FILLED	United States	6037239	14-Mar-2000	Granted
TRENCH ISOLATION		5557255		
POLYSILICON FILLED TRENCH ISOLATION				
STRUCTURE FOR SOI INTEGRATED CIRCUITS	United States	6096621	01-Aug-2000	Granted
METHOD OF FORMING RETROGRADE	11 1 16 1	64.40205	24.0 . 2000	6
WELLS IN BONDED WAFERS	United States	6140205	31-Oct-2000	Granted
LOAD CURRENT CONTROL CIRCUITRY FOR				
POWER SUPPLIES DRIVING A COMMON	United States	6204720	20-Mar-2001	Granted
LOAD FOR PROVIDING A UNIFORM	Officed States	6204720	20-iviai-2001	Granted
TEMPERATURE DISTRIBUTION				
CIRCUIT PROVIDING A NEGATIVE				
RESISTANCE TO OFFSET ERROR VOLTAGE	United States	6229394	08-May-2001	Granted
FOR USE WITH A FOLDED CASCODE	223 3.4.23		33, 2001	3.3.763
AMPLIFIER				
HIGH PERFORMANCE INTERMEDIATE				
STAGE CIRCUIT FOR A RAIL-TO-RAIL	United States	6300834	09-Oct-2001	Granted
INPUT/OUTPUT CMOS OPERATIONAL				
AMPLIFIER				

Title	1	Reg. No./	Filing Date	C4.4
Tale	Jurisdiction	Serial No.	Reg. Date	Status
HIGH PERFORMANCE INTERMEDIATE			Reg. Date	
STAGE CIRCUIT FOR A RAIL-TO-RAIL				
INPUT/OUTPUT CMOS OPERATIONAL	United States	6384683	07-May-2002	Granted
AMPLIFIER				
REDUCED SUBSTRATE CAPACITANCE HIGH				
PERFORMANCE SOI PROCESS	United States	6403447	11-Jun-2002	Granted
DISTORTION IMPROVEMENT IN			10.0 0000	
AMPLIFIERS	United States	6448853	10-Sep-2002	Granted
A HIGH SPEED, LOW-POWER CMOS CIRCUIT				
WITH CONSTANT OUTPUT SWING AND	United States	6501317	31-Dec-2002	Crantad
VARIABLE TIME DELAY FOR A VOLTAGE	United States	0501317	31-Dec-2002	Granted
CONTROLLED OSCILLATOR				
CURRENT FEEDBACK AMPLIFIER	United States	6535064	18-Mar-2003	Granted
EXHIBITING REDUCED DISTORTION	Officed States	0555004	10-IVIAI-2003	Granted
COMPENSATION METHOD IN A CLASS B	United States	6538514	25-Mar-2003	Granted
AMPLIFIER	Officed States	0530514	25 Widi 2005	Grantea
AN ALTERNATIVE VIDEO SYNC DETECTOR	United States	6573943	03-Jun-2003	Granted
REDUCED SUBSTRATE CAPACITANCE HIGH	United States	6617646	09-Sep-2003	Granted
PERFORMANCE SOI PROCESS	Officed States	0017010	03 3cp 2003	Grantea
A CMOS RELAXATION OSCILLATOR CIRCUIT	United States	6720836	13-Apr-2004	
WITH IMPROVED SPEED AND REDUCED				Granted
PROCESS/TEMPERATURE VARIATIONS				
SIMPLIFIED MULTI-OUTPUT DIGITAL TO		6704533	24.4 2004	
ANALOG CONVERTER (DAC) FOR A FLAT	United States	6781532	24-Aug-2004	Granted
PANEL DISPLAY				
METHODS FOR EXTRACTING THE MEAN (COMMON MODE) VOLTAGE OF TWO	United States	6867643	15-Mar-2005	Granted
INPUT SIGNALS	Officed States	0007043	15-Mai-2005	Granted
COMMON- MODE AND DIFFERENTIAL-				
MODE COMPENSATION FOR OPERATIONAL	United States	6867649	15-Mar-2005	Granted
AMPLIFIER CIRCUITS	Officed States	0007043	13 14101 2003	Grantea
ANALOG DEMULTIPLEXING	United States	6897800	24-May-2005	Granted
SIMPLIFIED MULTI-OUTPUT DIGITAL TO				
ANALOG CONVERTER (DAC) FOR A FLAT	United States	6927712	09-Aug-2005	Granted
PANEL DISPLAY				
AN ALTERNATIVE VIDEO SYNC DETECTOR	United States	6977692	20-Dec-2005	Granted
CLASS G AMPLIFIERS	United States	6982600	03-Jan-2006	Granted
CURRENT MODE PREAMPLIFIERS	United States	6995615	07-Feb-2006	Granted
NOVEL NOISE CANCELLATION CIRCUIT AND	United States	COOCOO	14 Feb 2000	Cuarted
METHODS	United States	6998905	14-Feb-2006	Granted
ANALOG DEMULTIPLEXING	United States	7002498	21-Feb-2006	Granted
INPUT STAGE FOR MULTIPLEXING AND				
METHODS FOR USING AN INPUT STAGE	United States	7030679	18-Apr-2006	Granted
FOR MULTIPLEXING				
METHODS AND SYSTEMS FOR DRIVING				
DISPLAYS INCLUDING CAPACITIVE DISPLAY	United States	7034781	25-Apr-2006	Granted
ELEMENTS				
METHODS FOR EXTRACTING THE MEAN	United States	7053698	30-May-2006	Granted

Title	Jurisdiction	Reg. No./ Serial No.	Filing Date / Reg. Date	Status
(COMMON MODE) VOLTAGE OF TWO INPUT SIGNALS				
CURRENT OUTPUT STAGE	United States	7053699	30-May-2006	Granted
SYSTEM AND METHODS FOR AUTOMATIC POWER CONTROL OF LASER DIODES	United States	7061951	13-Jun-2006	Granted
BIAS CURRENT CANCELLATION FOR DIFFERENTIAL AMPLIFIERS	United States	7068106	27-Jun-2006	Granted
NOVEL NOISE CANCELLATION CIRCUIT AND METHODS	United States	7075362	11-Jul-2006	Granted
ADJUSTABLE POWER CONTROL FOR LASER DRIVERS AND LASER DIODES	United States	7106769	12-Sep-2006	Granted
BIAS CURRENT CANCELLATION FOR DIFFERENTIAL AMPLIFIERS	United States	7145391	05-Dec-2006	Granted
AN ALTERNATIVE VIDEO SYNC DETECTOR	United States	7215379	08-May-2007	Granted
LASER DRIVERS THAT PROVIDE DOUBLE BUFFERING OF SERIAL TRANSFERS	United States	7246199	17-Jul-2007	Granted
INPUT STAGE FOR MULTIPLEXING AND METHODS FOR USING AN INPUT STAGE FOR MULTIPLEXING	United States	7250805	31-Jul-2007	Granted
LASER DRIVERS THAT PROVIDE DOUBLE BUFFERING OF SERIAL TRANSFERS	United States	7353333	01-Apr-2008	Granted
INPUT STAGE FOR MULTIPLEXING AND METHODS FOR USING AN INPUT STAGE FOR MULTIPLEXING	United States	7378897	27-May-2008	Granted
SYSTEM AND METHODS FOR AUTOMATIC POWER CONTROL OF LASER DIODES	United States	7382807	03-Jun-2008	Granted
AN ALTERNATIVE VIDEO SYNC DETECTOR	United States	11/737068	18-Apr-2007	Pending
LASER DRIVERS THAT PROVIDE DOUBLE BUFFERING OF SERIAL TRANSFERS	United States	7562187	14-Jul-2009	Granted

Elantec Semiconductor, Inc. - Foreign Registered Patents and Patent Applications.

Title	Jurisdiction	Reg. No./ Serial No.	Filing Date / Reg. Date	Status
A HIGH SPEED, LOW-POWER CMOS CIRCUIT WITH CONSTANT OUTPUT SWING AND VARIABLE TIME DELAY FOR A VOLTAGE CONTROLLED OSCILLATOR	CN	ZL02809718	31-Aug- 2005	Granted
SIMPLIFIED MULTI-OUTPUT DIGITAL TO ANALOG CONVERTER (DAC) FOR A FLAT PANEL DISPLAY	JP	4359504	14-Aug- 2009	Granted
SIMPLIFIED MULTI-OUTPUT DIGITAL TO ANALOG CONVERTER (DAC) FOR A FLAT PANEL DISPLAY	TW	1267818	01-Dec- 2006	Granted
ANALOG DEMULTIPLEXING	KR	10-0910481	27-Jul-2009	Granted

Title	Jurisdiction	Reg. No./ Serial No.	Filing Date / Reg. Date	Status
ANALOG DEMULTIPLEXING	JP	4111915	18-Apr- 2008	Granted
ANALOG DEMULTIPLEXING	TW	NI-193308	01-Jan- 2004	Granted
LASER DRIVERS THAT PROVIDE DOUBLE BUFFERING OF SERIAL TRANSFERS	TW	93114741	25-May- 2004	Pending
PROGRAMMABLE DAMPING FOR LASER DRIVERS	TW	93107624	22-Mar- 2004	Pending
ADJUSTABLE POWER CONTROL FOR LASER DRIVERS AND LASER DIODES	TW	93107625	22-Mar- 2004	Pending
TWO-WIRE CHIP-TO-CHIP INTERFACE	JP	2005-120954	19-Apr- 2005	Published
NOVEL NOISE CANCELLATION CIRCUIT AND METHODS	JP	2004-163600	01-Jun- 2004	Pending

D2 Audio Corporation – U.S Registered Patents and Patent Applications.

Title	Jurisdiction	Reg. No./ Serial No.	Filing Date / Reg. Date	Status
SYSTEMS AND METHODS FOR IMPROVING PERFORMANCE IN A DIGITAL AMPLIFIER BY ADDING AN ULTRASONIC SIGNAL TO AN INPUT AUDIO SIGNAL	United States	7649410	19-Jan-2010	Granted
SYSTEMS AND METHODS FOR AUTOMATICALLY ADJUSTING CHANNEL TIMING	United States	7023268	04-Apr-2006	Granted
SYSTEMS AND METHODS FOR PROVIDING MULTI CHANNEL PULSE WIDTH MODULATED AUDIO WITH STAGGERED OUTPUTS	United States	7061312	13-Jun-2006	Granted
INTEGRATED PULSHI MODE WITH SHUTDOWN	United States	7078963	18-Jul-2006	Granted
SYSTEMS AND METHODS FOR IMPLEMENTING A SAMPLE RATE CONVERTER USING HARDWARE AND SOFTWARE TO MAXIMIZE SPEED AND FLEXIBILITY	United States	7167112	23-Jan-2007	Granted
SYSTEMS AND METHODS FOR LOAD DETECTION AND CORRECTION IN A DIGITAL AMPLIFIER	United States	7259618	21-Aug-2007	Granted
DIGITAL PWM AMPLIFIER WITH SIMULATION-BASED FEEDBACK	United States	7286009	23-Oct-2007	Granted
SYSTEMS AND METHODS FOR OVER- CURRENT PROTECTION	United States	7286010	23-Oct-2007	Granted
SYSTEMS AND METHODS FOR IMPROVING PREFORMANCE IN A DIGITAL AMPLIFIER BY	United States	7315264	01-Jan-2008	Granted

1567510.05-NewYork Server7A - MSW

Title	Jurisdiction	Reg. No./	Filing Date	Status
	•	Serial No.	Reg. Date	7
ADDING ULTRASONIC SIGNAL TO AN INPUT				
AUDIO SIGNAL				
SYSTEMS AND METHODS FOR MINIMIZING	Linitari Ctatas	7262254	22 4 2000	Cuantad
DELAY IN A CONTROL PATH	United States	7362254	22-Apr-2008	Granted
SYSTEMS AND METHODS FOR PULSE WIDTH	United States	7425052	16 Cam 2000	Cuented
MODULATING ASYMMETRIC SIGNAL LEVELS	United States	7425853	16-Sep-2008	Granted
POWER SUPPLY FEED FORWARD ANALOG	United States	7436255	14-Oct-2008	Crantad
INPUT FILTER COMPONENT MISMATCH	Officed States	7430233	14-001-2008	Granted
SYSTEMS AND METHODS FOR MAINTAINING				
MINIMUM PULSE WIDTH DURING	United States	7436256	14-Oct-2008	Granted
SHUTDOWN				
OUTPUT STAGE SYNCHRONIZATION	United States	7436918	14-Oct-2008	Granted
SYSTEMS AND METHODS FOR SAMPLE RATE				
CONVERSION USING MULTIPLE RATE	United States	7474722	06-Jan-2009	Granted
ESTIMATE COUNTERS				
SYSTEMS AND METHODS FOR CORRECTING				
ERRORS RESULTING FROM COMPONENT	United States	7482865	27-Jan-2009	Granted
MISMATCH IN A FEEDBACK PATH				
PWM FEEDBACK/FEEDFORWARD	United States	7518444	14-Apr-2009	Granted
PROTECTION	Officed States	7310444	14-Apr-2003	Granted
DIGITAL PWM AMPLIFIER WITH	United States	7576606	18-Aug-2009	Granted
SIMULATION-BASED FEEDBACK	Officed States	7370000	10-Aug-2003	Granted
MULTI-CHIP PWM SYNCHRONIZATION AND	United States	7584009	01-Sep-2009	Granted
COMMUNICATION				Grantea
CLIP DETECTION IN PWM AMPLIFIER	United States	7590251	15-Sep-2009	Granted
SYSTEMS AND METHODS FOR SAMPLE RATE				
CONVERSION USING MULTIPLE RATE	United States	12/343317	23-Dec-2008	Pending
ESTIMATE COUNTERS				
DIGITAL PWM AMPLIFIER WITH	United States	11/782702	25-Jul-2007	Published
SIMULATION-BASED FEEDBACK				
DIGITAL PWM AMPLIFIER WITH	United States	12/542634	17-Aug-2009	Published
SIMULATION-BASED FEEDBACK		,		
SYSTEMS AND METHODS FOR PROTECTION	United States	10/805594	19-Mar-2004	Pending
OF AUDIO AMPLIFIER CIRCUITS		-		_
STREAMING MULTI-CHANNEL AUDIO AS	t to be all Colors	10/005574	20 14 2004	Dan din .
PACKETIZED DATA OR PARALLEL DATA WITH	United States	10/805574	20-Mar-2004	Pending
A SEPARATE INPUT FRAME SYNC				
SRC WITH MULTIPLE SETS OF FILTER COEFFICIENTS IN MEMORY AND A HIGH	United Ct-t	10/005500	10 14 2004	Dandin -
ORDER COEFFICIENT INTERPOLATOR	United States	10/805596	19-Mar-2004	Pending
PHASE ALIGNMENT OF AUDIO OUTPUT DATA IN A MULTI-CHANNEL	United States	10/005500	19-Mar-2004	Pending
CONFIGURATION	Officed States	10/805590	13-iviai-2004	rending
SYSTEMS AND METHODS FOR SWITCHING				
AND MIXING SIGNALS IN A MULTI-CHANNEL	United States	10/843852	12-May-2004	Pending
AMPLIFIER	Officed States	10/043032	12-101ay-2004	rending
SYSTEMS AND METHODS FOR				
CONTROLLING AUDIO VOLUME IN THE	United States	12/202355	01-Sep-2008	Pending
CONTROLLING ADDIO VOLOIVIE IN THE				

Title	Jurisdiction	Reg. No./ Serial No.	Filing Date / Reg. Date	Status
PROCESSOR OF A HIGH DEFINITION AUDIO CODEC				
SYSTEMS AND METHODS FOR COMMUNICATION BETWEEN A PC APPLICATION AND THE DSP IN AN HDA AUDIO CODEC	United States	12/202356	01-Sep-2008	Published
SYSTEMS AND METHODS FOR OVERRIDING HARDWIRED RESPONSES IN AN HDA CODEC	United States	12/202358	01-Sep-2008	Published
SYSTEMS AND METHODS FOR BOOTING A CODEC PROCESSOR OVER A HIGH DEFINITION AUDIO BUS	United States	12/202359	01-Sep-2008	Published
SYSTEMS AND METHODS FOR SHADOWING AN HDA CODEC	United States	12/202360	01-Sep-2008	Published
SYSTEMS AND METHODS FOR CONTROLLING HDA SYSTEM CAPABILITIES	United States	12/202361	01-Sep-2008	Pending
SYSTEMS AND METHODS TO MINIMIZE STARTUP TRANSIENTS IN CLASS D AMPLIFIERS	United States	11/847449	30-Aug-2007	Published
SYSTEMS AND METHODS FOR LOAD DETECTION AND CORRECTION IN A DIGITAL AMPLIFIER	United States	12/544806	20-Aug-2009	Pending

D2 Audio Corporation - Foreign Registered Patents and Patent Applications.

Title	Jurisdiction	Reg. No./ Serial No.	Filing Date / Reg. Date	Status
SYSTEMS AND METHODS FOR PROTECTION OF AUDIO AMPLIFIER CIRCUITS	CN	80010567	29-Apr- 2009	Granted
SYSTEMS AND METHODS FOR PROTECTION OF AUDIO AMPLIFIER CIRCUITS	EP	1606875	21-May- 2008	Granted
SYSTEMS AND METHODS FOR PROTECTION OF AUDIO AMPLIFIER CIRCUITS	FR	1606875	21-May- 2008	Granted
SYSTEMS AND METHODS FOR PROTECTION OF AUDIO AMPLIFIER CIRCUITS	DE	6004013940	21-May- 2008	Granted
SYSTEMS AND METHODS FOR PROTECTION OF AUDIO AMPLIFIER CIRCUITS	GB	1606875	21-May- 2008	Granted
SYSTEMS AND METHODS FOR IMPLEMENTING A SAMPLE RATE CONVERTER USING HARDWARE AND SOFTWARE TO MAXIMIZE SPEED AND FLEXIBILITY	DE	1609241	12-Dec- 2007	Granted

1567510.05-New York Server 7A - MSW

Title	Jurisdiction	Reg. No./ Serial No.	Filing Date / Reg. Date	Status
SYSTEMS AND METHODS FOR IMPLEMENTING A SAMPLE RATE CONVERTER USING HARDWARE AND SOFTWARE TO MAXIMIZE SPEED AND FLEXIBILITY	EP	1609241	12-Dec- 2007	Granted
SYSTEMS AND METHODS FOR IMPLEMENTING A SAMPLE RATE CONVERTER USING HARDWARE AND SOFTWARE TO MAXIMIZE SPEED AND FLEXIBILITY	GB	1609241	12-Dec- 2007	Granted
SYSTEMS AND METHODS FOR IMPLEMENTING A SAMPLE RATE CONVERTER USING HARDWARE AND SOFTWARE TO MAXIMIZE SPEED AND FLEXIBILITY	FR	1609241	12-Dec- 2007	Granted
SYSTEMS AND METHODS FOR IMPLEMENTING A SAMPLE RATE CONVERTER USING HARDWARE AND SOFTWARE TO MAXIMIZE SPEED AND FLEXIBILITY	CN	ZL80010769	08-Jul-2009	Granted
SYSTEMS AND METHODS FOR PROVIDING MULTI CHANNEL PULSE WIDTH MODULATED AUDIO WITH STAGGERED OUTPUTS	CN	ZL80010526	24-Jun- 2009	Granted
SYSTEMS AND METHODS FOR PROVIDING MULTI CHANNEL PULSE WIDTH MODULATED AUDIO WITH STAGGERED OUTPUTS	EP	1623501	12-May- 2008	Granted
SYSTEMS AND METHODS FOR PROVIDING MULTI CHANNEL PULSE WIDTH MODULATED AUDIO WITH STAGGERED OUTPUTS	JP	4358860	14-Aug- 2009	Granted
SYSTEMS AND METHODS FOR PROVIDING MULTI CHANNEL PULSE WIDTH MODULATED AUDIO WITH STAGGERED OUTPUTS	DE	1623501	12-May- 2008	Granted
SYSTEMS AND METHODS FOR PROVIDING MULTI CHANNEL PULSE WIDTH MODULATED AUDIO WITH STAGGERED OUTPUTS	FR	1623501	12-May- 2008	Granted
SYSTEMS AND METHODS FOR PROVIDING MULTI CHANNEL PULSE WIDTH MODULATED AUDIO WITH STAGGERED OUTPUTS	GB	1623501	12-May- 2008	Granted
SYSTEMS AND METHODS FOR PROTECTION OF AUDIO AMPLIFIER CIRCUITS	wo	US04/08546	29-Mar- 2004	Pending
SYSTEMS AND METHODS FOR PROTECTION OF AUDIO AMPLIFIER	JP	2006-507403	16-Sep- 2005	Pending

Title	Jurisdiction	Reg. No./ Serial No.	Filing Date / Reg. Date	Status
CIRCUITS				
SYSTEMS AND METHODS FOR				
PROTECTION OF AUDIO AMPLIFIER	НК	06108266.4	25-Jul-2006	Pending
CIRCUITS				
SYSTEMS AND METHODS FOR				
IMPLEMENTING A SAMPLE RATE				
CONVERTER USING HARDWARE AND	CN	0910138482.6	19-Mar-	Pending
SOFTWARE TO MAXIMIZE SPEED AND			2004	
FLEXIBILITY				
SYSTEMS AND METHODS FOR				
IMPLEMENTING A SAMPLE RATE			16.600	
CONVERTER USING HARDWARE AND	JP	507404	16-Sep-	Pending
SOFTWARE TO MAXIMIZE SPEED AND			2005	
FLEXIBILITY				
SYSTEMS AND METHODS FOR				
IMPLEMENTING A SAMPLE RATE			01-Nov-	
CONVERTER USING HARDWARE AND	HK	07111872.3	2007	Pending
SOFTWARE TO MAXIMIZE SPEED AND			2007	
FLEXIBILITY				
CLIP DETECTION IN PWM AMPLIFIER	l wo	PCT-04/08534	19-Mar-	Pending
		,	2004	
CLIP DETECTION IN PWM AMPLIFIER	JP	2006-507396	16-Sep-	Pending
			2005	
CLIP DETECTION IN PWM AMPLIFIER	EP	04757922.2	27-Sep-	Pending
			2005	_
CLIP DETECTION IN PWM AMPLIFIER	CN	0480009689.9	11-Oct-	Pending
			2005 15-Feb-	
CLIP DETECTION IN PWM AMPLIFIER	НК	07101872.4	2007	Pending
SYSTEMS AND METHODS FOR PROVIDING			2007	
MULTI CHANNEL PULSE WIDTH			27-Sep-	
MODULATED AUDIO WITH STAGGERED	HK	06108265.5	2005	Pending
OUTPUTS				
SYSTEMS AND METHODS FOR IMPROVING				
PERFORMANCE IN A DIGITAL AMPLIFIER			24-Jan-	
BY ADDING ULTRASONIC SIGNAL TO AN	wo	PCT07/60984	2007	Pending
INPUT AUDIO SIGNAL				
SYSTEMS AND METHODS FOR IMPROVING				
PERFORMANCE IN A DIGITAL AMPLIFIER	ID.	2000 554577	17 101 2000	D =10
BY ADDING ULTRASONIC SIGNAL TO AN	JP	2008-551577	17-Jul-2008	Pending
INPUT AUDIO SIGNAL				
SYSTEMS AND METHODS FOR IMPROVING				
PERFORMANCE IN A DIGITAL AMPLIFIER	CN	07/8002954.4	22 101 2000	Donding
BY ADDING ULTRASONIC SIGNAL TO AN	LIN	07/0002934.4	23-Jul-2008	Pending
INPUT AUDIO SIGNAL				
SYSTEMS AND METHODS FOR IMPROVING			22-Aug-	
PERFORMANCE IN A DIGITAL AMPLIFIER	EP	07717387.0	22-Aug- 2008	Pending
BY ADDING ULTRASONIC SIGNAL TO AN			2000	

Title	Jurisdiction	Reg. No./ Serial No.	Filing Date / Reg. Date	Status
INPUT AUDIO SIGNAL				
SYSTEMS AND METHODS FOR IMPROVING PREFORMANCE IN A DIGITAL AMPLIFIER BY ADDING ULTRASONIC SIGNAL TO AN INPUT AUDIO SIGNAL	WO	PCT/O7/60574	16-Jan- 2007	Pending
SYSTEMS AND METHODS FOR IMPROVING PREFORMANCE IN A DIGITAL AMPLIFIER BY ADDING ULTRASONIC SIGNAL TO AN INPUT AUDIO SIGNAL	JP	2008-550558	10-Jul-2008	Pending
SYSTEMS AND METHODS FOR IMPROVING PREFORMANCE IN A DIGITAL AMPLIFIER BY ADDING ULTRASONIC SIGNAL TO AN INPUT AUDIO SIGNAL	CN	80002413.1	16-Jul-2008	Pending
SYSTEMS AND METHODS FOR IMPROVING PREFORMANCE IN A DIGITAL AMPLIFIER BY ADDING ULTRASONIC SIGNAL TO AN INPUT AUDIO SIGNAL	EP	07717294.8	31-Jul-2008	Pending
SYSTEMS AND METHODS FOR OVER- CURRENT PROTECTION	WO	PCT/07/61015	25-Jan- 2007	Pending
SYSTEMS AND METHODS FOR OVER- CURRENT PROTECTION	EP	07717391.2	25-Jan- 2007	Pending
SYSTEMS AND METHODS FOR OVER- CURRENT PROTECTION	JP	552565	11-Sep- 2008	Pending
SYSTEMS AND METHODS FOR OVER- CURRENT PROTECTION	CN	80003547.5	26-Nov- 2008	Pending
SYSTEMS AND METHODS FOR PULSE WIDTH MODULATING ASYMMETRIC SIGNAL LEVELS	WO	PCT/07/61399	31-Jan- 2007	Pending
SYSTEMS AND METHODS FOR PULSE WIDTH MODULATING ASYMMETRIC SIGNAL LEVELS	EP	07710437.0	31-Jan- 2007	Pending
SYSTEMS AND METHODS FOR PULSE WIDTH MODULATING ASYMMETRIC SIGNAL LEVELS	JP	08-552625	17-Sep- 2008	Pending
SYSTEMS AND METHODS FOR PULSE WIDTH MODULATING ASYMMETRIC SIGNAL LEVELS	CN	80004155.0	24-Nov- 2008	Pending
PWM FEEDBACK/FEEDFORWARD PROTECTION	WO	PCT/07/61769	07-Feb- 2007	Pending
PWM FEEDBACK/FEEDFORWARD PROTECTION	JP	2008-553549	07-Feb- 2007	Pending
PWM FEEDBACK/FEEDFORWARD PROTECTION	CN	200780005026	07-Feb- 2007	Pending
PWM FEEDBACK/FEEDFORWARD PROTECTION	EP	07756721.2	07-Feb- 2007	Pending
DIGITAL PWM AMPLIFIER WITH SIMULATION-BASED FEEDBACK	WO	PCT/06/62687	28-Dec- 2006	Pending
DIGITAL PWM AMPLIFIER WITH	CN	80053489.2	28-Dec-	Pending

Title	Jurisdiction	Reg. No./ Serial No.	Filing Date / Reg. Date	Status
SIMULATION-BASED FEEDBACK			2006	
DIGITAL PWM AMPLIFIER WITH	EP	00040041.3	28-Dec-	Dan elina
SIMULATION-BASED FEEDBACK	EP	06846841.2	2006	Pending
DIGITAL PWM AMPLIFIER WITH	JP	2008-548859	28-Dec-	Pending
SIMULATION-BASED FEEDBACK	Jr	2008-348833	2006	rending
SYSTEMS AND METHODS FOR CONTROLLING AUDIO VOLUME IN THE PROCESSOR OF A HIGH DEFINITION AUDIO CODEC	wo	US08/74963	01-Sep- 2008	Pending
SYSTEMS AND METHODS FOR CONTROLLING AUDIO VOLUME IN THE PROCESSOR OF A HIGH DEFINITION AUDIO CODEC	TW	97133404	01-Sep- 2008	Published
SYSTEMS AND METHODS FOR COMMUNICATION BETWEEN A PC APPLICATION AND THE DSP IN AN HDA AUDIO CODEC	TW	97133405	01-Sep- 2008	Pending
SYSTEMS AND METHODS FOR COMMUNICATION BETWEEN A PC APPLICATION AND THE DSP IN AN HDA AUDIO CODEC	wo	7S08/74964	01-Sep- 2008	Pending
SYSTEMS AND METHODS FOR BOOTING A CODEC PROCESSOR OVER A HIGH DEFINITION AUDIO BUS	TW	97133406	01-Sep- 2008	Pending
SYSTEMS AND METHODS FOR BOOTING A CODEC PROCESSOR OVER A HIGH DEFINITION AUDIO BUS	WO	US08/74965	01-Sep- 2008	Pending
SYSTEMS AND METHODS FOR SHADOWING AN HDA CODEC	TW	97133408	01-Sep- 2008	Pending
SYSTEMS AND METHODS FOR SHADOWING AN HDA CODEC	wo	US008/74966	01-Sep- 2008	Pending
SYSTEMS AND METHODS FOR CONTROLLING HDA SYSTEM CAPABILITIES	TW	97133410	01-Sep- 2008	Pending
SYSTEMS AND METHODS FOR CONTROLLING HDA SYSTEM CAPABILITIES	wo	US08/74967	01-Sep- 2008	Pending
SWITCHING AMPLIFIER OPTIMIZED FOR MINIMAL AND STABLE OUTPUT SEMICONDUCTOR DEAD TIMES	WO	08/83677	14-Nov- 2008	Pending
SWITCHING AMPLIFIER OPTIMIZED FOR MINIMAL AND STABLE OUTPUT SEMICONDUCTOR DEAD TIMES	TW	097144058	14-Nov- 2008	Pending

Planet ATE, Inc.

Title	gun istancia	Reg. No.	1116. 17011	Filing Date
Method and apparatus for coupling an	United States	US		

1567510.05-New York Server 7A - MSW

Title	Jurisdiction	Reg. No.	Reg. Date	Filing Date
input node to an output node		6933746	08/23/2005	Granted
Device under test power supply	United States	US 7675310	03/09/2010	Granted

1567510.05-New York Server 7A - MSW

RECORDED: 05/05/2010