

## PATENT ASSIGNMENT COVER SHEET

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Stylesheet Version v1.2

EPAS ID: PAT4058525

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	PATENT SECURITY AGREEMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
SILICON PATENT HOLDINGS	09/19/2016
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	DEUTSCHE BANK AG NEW YORK BRANCH, AS COLLATERAL AGENT
<b>Street Address:</b>	60 WALL STREET
<b>City:</b>	NEW YORK
<b>State/Country:</b>	NEW YORK
<b>Postal Code:</b>	10005
<b>PROPERTY NUMBERS Total: 10</b>	
<b>Property Type</b>	<b>Number</b>
Patent Number:	7041559
Patent Number:	6800897
Patent Number:	6791143
Patent Number:	6784486
Patent Number:	6781194
Patent Number:	6764889
Patent Number:	6621121
Patent Number:	6586833
Patent Number:	6545316
Patent Number:	6525372
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(213)452-2329
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<b>ATTORNEY DOCKET NUMBER:</b>	1111779-2989-S216





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## PATENT SECURITY AGREEMENT

This PATENT SECURITY AGREEMENT, dated as of September 19, 2016 (“Patent Security Agreement”), made by each of the signatories hereto (together with any other entity that may become a party hereto as provided herein, the “Patent Grantors”), is in favor of DEUTSCHE BANK AG NEW YORK BRANCH, as collateral agent (in such capacity, the “Collateral Agent”) for the Secured Parties.

### W I T N E S S E T H:

WHEREAS, the Patent Grantors are party to a Guarantee and Collateral Agreement dated as of April 15, 2016 (the “Guarantee and Collateral Agreement”) in favor of the Collateral Agent pursuant to which the Patent Grantors are required to execute and deliver this Patent Security Agreement (capitalized terms used but not otherwise defined herein shall have the meanings given to them in the Guarantee and Collateral Agreement);

WHEREAS, pursuant to the terms of the Guarantee and Collateral Agreement, each Patent Grantor has created in favor of the Collateral Agent a security interest in, and the Collateral Agent has become a secured creditor with respect to, the Patent Collateral (as defined below);

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 the Specified Cash Management Agreements and provide financial accommodation, each Patent 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 Patent Grantor or in which such Patent 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 complete payment and performance when due (whether at the stated maturity, by acceleration or otherwise) of all Secured Obligations:

(a) all Patents of such Patent Grantor, including, without limitation, the registered and applied-for Patents of such Grantor listed on Schedule 1 attached hereto;

(b) to the extent not covered by clause (a), all Proceeds of any of the foregoing;  
and

(c) to the extent not covered by clause (a), all causes of action arising prior to or after the date hereof for infringement of any of the Patents;

provided, that (i) this Patent Security 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 would be prohibited by the terms of the Guarantee and Collateral Agreement; and (ii) the security interest granted hereby (x) shall attach at all times to all proceeds of such property, (y) 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 (z) 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).

The security interest granted pursuant to this Patent Security Agreement is granted in conjunction with security interest granted to the Collateral Agent pursuant to the Guarantee and Collateral Agreement and the Patent Grantors hereby acknowledge and affirm that the rights and remedies of the Collateral Agent 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.

Each Patent Grantor hereby authorizes and requests that the Commissioner of Patents and Trademarks record this Patent Security Agreement.

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

This Patent Security Agreement may be executed by one or more of the parties to this Patent Security 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 Patent Security Agreement by facsimile transmission or electronic transmission (in PDF format) shall be effective as delivery of a manually executed counterpart hereof. A copy of this Patent Security Agreement signed by all the parties shall be delivered to the Administrative Agent.

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

GIANT HOLDINGS, INC.

By: B. Gutmann  
Name: Bernard Gutmann  
Title: CFO, Sr. V.P. & Treasurer

MICRO-OHM CORPORATION

By: B. Gutmann  
Name: Bernard Gutmann  
Title: CFO, Sr. V.P. & Treasurer

FAIRCHILD SEMICONDUCTOR CORPORATION

BY: B. Gutmann  
Name: Bernard Gutmann  
Title: CFO, Sr. V.P. & Treasurer

[Signature Page to Patent Security Agreement]

**PATENT**  
**REEL: 040074 FRAME: 0778**

SILICON PATENT HOLDINGS, INC.

By: B. Gutmann

Name: Bernard Gutmann

Title: CFO, Sr. V.P. & Treasurer


[Signature Page to Patent Security Agreement]

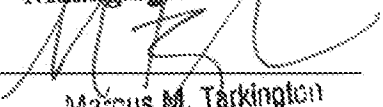
**PATENT**  
**REEL: 040074 FRAME: 0779**



Accepted and Agreed:

DEUTSCHE BANK AG NEW YORK BRANCH, as Assignee

By:   
Name: Anca Trifan  
Title: Managing Director

By:   
Name: Marcus M. Tarkington  
Title: Director

[Signature Page to Patent Security Agreement]

**PATENTS**Patent Registrations and Applications**Giant Holdings, Inc.**

No.	Title	App. No.	App. Date	Reg. No.	Reg. Date	Owner
1.	POWER SEMICONDUCTOR DEVICES HAVING TRENCH-BASED GATE ELECTRODES AND FIELD PLATES	09377006	08/18/1999	6388286	05/14/2002	Giant Holdings, Inc.
2.	POWER SEMICONDUCTOR DEVICES HAVING IMPROVED HIGH FREQUENCY SWITCHING AND BREAKDOWN CHARACTERISTICS	09178845	10/26/1998	5998833	12/07/1999	Giant Holdings, Inc.

**Micro-Ohm Corporation**

No.	Title	App. No.	App. Date	Reg. No.	Reg. Date	Owner
1.	POWER SEMICONDUCTOR DEVICES THAT UTILIZE TAPERED TRENCH-BASED INSULATING REGIONS TO IMPROVE ELECTRIC FIELD PROFILES IN HIGHLY DOPED DRIFT REGION MESAS AND METHODS OF FORMING SAME	09322424	05/28/1999	6191447	02/20/2001	Micro-Ohm Corporation

**Silicon Patent Holdings**

No.	Title	App. No.	App. Date	Reg. No.	Reg. Date	Owner
1.	METHODS OF FORMING POWER SEMICONDUCTOR DEVICES HAVING Laterally EXTENDING BASE SHIELDING REGIONS	10936757	09/08/2004	7041559	05/09/2006	Silicon Patent Holdings
2.	INTEGRATED CIRCUIT POWER DEVICES HAVING JUNCTION BARRIER CONTROLLED SCHOTTKY DIODES THEREIN	10671333	09/24/2003	6800897	10/05/2004	Silicon Patent Holdings
3.	POWER SEMICONDUCTOR DEVICES HAVING Laterally EXTENDING BASE SHIELDING REGIONS THAT INHIBIT BASE REACH-THROUGH	10008171	10/19/2001	6791143	09/14/2004	Silicon Patent Holdings
4.	VERTICAL POWER DEVICES HAVING RETROGRADED-DOPED TRANSITION REGIONS THEREIN	10199583	07/19/2002	6784486	08/31/2004	Silicon Patent Holdings

No.	Title	App. No.	App. Date	Reg. No.	Reg. Date	Owner
5.	POWER DEVICES HAVING RETROGRADED-DOPED TRANSITION REGIONS AND INSULATED TRENCH-BASED ELECTRODES THEREIN	09833132	04/11/2001	6781194	08/24/2004	Silicon Patent Holdings
6.	METHODS OF FORMING VERTICAL MOSFETS HAVING TRENCH-BASED GATE ELECTRODES WITHIN DEEPER TRENCH-BASED SOURCE ELECTRODES	10621668	07/17/2003	6764889	07/20/2004	Silicon Patent Holdings
7.	VERTICAL MOSFETS HAVING TRENCH-BASED GATE ELECTRODES WITHIN DEEPER TRENCH-BASED SOURCE ELECTRODES AND METHODS OF FORMING SAME	09995019	11/26/2001	6621121	09/16/2003	Silicon Patent Holdings
8.	PACKAGED POWER DEVICES HAVING VERTICAL POWER MOSFETS THEREIN THAT ARE FLIP-CHIP MOUNTED TO SLOTTED GATE ELECTRODE STRIP LINES	09992233	11/05/2001	6586833	07/01/2003	Silicon Patent Holdings
9.	MOSFET DEVICES HAVING LINEAR TRANSFER CHARACTERISTICS WHEN OPERATING IN VELOCITY SATURATION MODE AND METHODS OF FORMING AND OPERATING SAME	09602414	06/23/2000	6545316	04/08/2003	Silicon Patent Holdings
10.	VERTICAL POWER DEVICES HAVING INSULATED SOURCE ELECTRODES IN DISCONTINUOUS DEEP TRENCHES	09991838	11/05/2001	6525372	02/25/2003	Silicon Patent Holdings

**Fairchild Semiconductor Corporation**

No.	Title	App No.	App. Date	Reg. No.	Reg. Date	Owner
1.	ACTIVE DECELERATION CIRCUIT FOR A BRUSHLESS DC MOTOR	08697366	8/23/1996	5793168	8/11/1998	Fairchild Semiconductor Corporation
2.	METHOD OF FORMING POWER SEMICONDUCTOR DEVICES WITH CONTROLLABLE INTEGRATED BUFFER	08708712	9/5/1996	5872028	2/16/1999	Fairchild Semiconductor Corporation
3.	LOW DISTORTION LARGE SWING FREQUENCY DOWN CONVERTER FILTER AMPLIFIER CIRCUIT	08727818	9/30/1996	5901350	5/4/1999	Fairchild Semiconductor Corporation

No.	Title	App No.	App. Date	Reg. No.	Reg. Date	Owner
4.	VIDEO COLOR SUBCARRIER SIGNAL GENERATOR	08730591	10/15/1996	5786866	7/28/1998	Fairchild Semiconductor Corporation
5.	DC-TO -DC CONVERTER HAVING HYSTERETIC CURRENT LIMITING	08748678	11/13/1996	5808455	9/15/1998	Fairchild Semiconductor Corporation
6.	THREE-PIN BUCK AND FOUR-PIN BOOST CONVERTER HAVING OPEN LOOP OUTPUT VOLTAGE CONTROL	08763401	12/11/1996	5894243	4/13/1999	Fairchild Semiconductor Corporation
7.	THREE-PIN BUCK CONVERTER AND FOUR-PIN POWER AMPLIFIER HAVING CLOSED LOOP OUTPUT VOLTAGE CONTROL	08763472	12/11/1996	5818207	10/6/1998	Fairchild Semiconductor Corporation
8.	BATTERY CELL EQUALIZATION CIRCUIT	08773098	12/24/1996	5956241	9/21/1999	Fairchild Semiconductor Corporation
9.	ONE PIN ERROR AMPLIFIER AND SWITCHED SOFT-START FOR AN EIGHT PIN PFC-PWM COMBINATION INTEGRATED CIRCUIT CONVERTER CONTROLLER	08796128	2/6/1997	5798635	8/25/1998	Fairchild Semiconductor Corporation
10.	METHOD OF MAKING MOS-GATED SEMICONDUCTOR DEVICES	08814842	3/11/1997	5877044	3/2/1999	Fairchild Semiconductor Corporation
11.	HETEROJUNCTION BIPOLAR TRANSISTOR	08827851	4/11/1997	5986324	11/16/1999	Fairchild Semiconductor Corporation
12.	CMOS RAIL-TO-RAIL INPUT/OUTPUT AMPLIFIER	08838109	4/15/1997	5929705	7/27/1999	Fairchild Semiconductor Corporation
13.	SINGLE INDUCTOR MULTIPLE OUTPUT BOOST REGULATOR	08840279	4/14/1997	6075295	6/13/2000	Fairchild Semiconductor Corporation
14.	PROGRAMMABLE STEP DOWN DC-DC CONVERTER CONTROLLER	08851972	5/6/1997	5905370	5/18/1999	Fairchild Semiconductor Corporation
15.	DUAL ADJUSTABLE VOLTAGE REGULATORS	08868662	6/4/1997	5864225	1/26/1999	Fairchild Semiconductor Corporation

No.	Title	App No.	App. Date	Reg. No.	Reg. Date	Owner
16.	SELF-ALIGNED POWER FIELD EFFECT TRANSISTOR IN SILICON CARBIDE	08884726	6/30/1997	5877041	3/2/1999	Fairchild Semiconductor Corporation
17.	BIPOLAR SEMICONDUCTOR POWER CONTROLLING DEVICES WITH HETEROJUNCTION	08885227	6/30/1997	5894141	4/13/1999	Fairchild Semiconductor Corporation
18.	METHOD OF MAKING A MOS-GATED SEMICONDUCTOR DEVICE WITH A SINGLE DIFFUSION	08885877	6/30/1997	6080614	6/27/2000	Fairchild Semiconductor Corporation
19.	TRENCH CONTACT PROCESS	08885879	6/30/1997	6110799	8/29/2000	Fairchild Semiconductor Corporation
20.	A METHOD OF FABRICATING U MOS SEMICONDUCTOR DEVICES USING A SELF-ALIGNED, REDUCED MASK PROCESS	08885921	6/30/1997	5940689	8/17/1999	Fairchild Semiconductor Corporation
21.	SEMICONDUCTOR STRUCTURES WITH TRENCH CONTACTS	08885922	6/30/1997	6037628	3/14/2000	Fairchild Semiconductor Corporation
22.	TWO-STAGE SWITCHING REGULATOR HAVING LOW POWER MODES RESPONSIVE TO LOAD POWER CONSUMPTION	08916570	8/22/1997	5903138	5/11/1999	Fairchild Semiconductor Corporation
23.	PROTECTION DEVICE FOR SOLID STATE SWITCHED POWER ELECTORNICS	08944513	10/6/1997	5995349	11/30/1999	Fairchild Semiconductor Corporation
24.	VOLTAGE REGULATOR HAVING ERROR AND TRANSCONDUCTANCE AMPLIFIERS TO DEFINE MULTIPLE POLES	08953821	9/29/1997	5889393	3/30/1999	Fairchild Semiconductor Corporation
25.	HIGH VOLTAGE MOSFET STRUCTURE	08966867	11/10/1997	6081009	6/27/2000	Fairchild Semiconductor Corporation
26.	FIELD EFFECT TRANSISTOR AND METHOD OFITS MANUFACTURE	08970221	11/14/1997	6429481	8/6/2002	Fairchild Semiconductor Corporation
27.	CURRENT SENSE CIRCUIT HAVING MULTIPLE PILOT AND REFERENCE TRANSISTORS	08975324	11/20/1997	5867014	2/2/1999	Fairchild Semiconductor Corporation

No.	Title	App No.	App. Date	Reg. No.	Reg. Date	Owner
28.	AUTOMATED SYSTEM FOR DETERMINING THE DYNAMIC THRESHOLDS OF DIGITAL LOGIC DEVICES	08978462	11/25/1997	5926486	7/20/1999	Fairchild Semiconductor Corporation
29.	SWITCHED RELUCTANCE MOTOR CONTROLLER WITH SENSORLESS ROTOR POSITION DETECTION	08996084	12/22/1997	5859518	1/12/1999	Fairchild Semiconductor Corporation
30.	FIELD COUPLED POWER MOSFET BUS ARCHITECTURE USING TRENCH TECHNOLOGY	09014115	1/27/1998	6396102	5/28/2002	Fairchild Semiconductor Corporation
31.	DIFFERENCE CAPTURE TIMER	09032901	3/2/1998	5925136	7/20/1999	Fairchild Semiconductor Corporation
32.	COMPACT LOW DROPOUT VOLTAGE REGULATOR USING ENHANCEMENT AND DEPLETION MODE MOS TRANSISTORS	09035683	3/5/1998	6005378	12/21/1999	Fairchild Semiconductor Corporation
33.	ADVANCED METHODS FOR MAKING SEMICONDUCTOR DEVICES BY LOW TEMPERATURE DIRECT BONDING	09036815	3/9/1998	6153495	11/28/2000	Fairchild Semiconductor Corporation
34.	CONFIGURABLE UNIVERSAL SERIAL BUS NODE	09040110	3/17/1998	6044428	3/28/2000	Fairchild Semiconductor Corporation
35.	WAFER LEVEL DIELECTRIC TEST STRUCTURE AND RELATED METHOD FOR ACCELERATED ENDURANCE TESTING	09062907	4/20/1998	6060895	5/9/2000	Fairchild Semiconductor Corporation
36.	HARDWARE BIT CODER	09072897	5/5/1998	6043762	3/28/2000	Fairchild Semiconductor Corporation
37.	SEMICONDUCTOR SUBSTRATE AND METHOD OF MAKING SAME	09086654	5/29/1998	6033489	3/7/2000	Fairchild Semiconductor Corporation
38.	CIRCUIT AND METHOD FOR PROTECTING FROM OVERCURRENT CONDITIONS AND DETECTING AN OPEN ELECTRICAL LOAD	09088198	6/1/1998	5920452	7/6/1999	Fairchild Semiconductor Corporation
39.	METHODS OF FORMING POWER SEMICONDUCTOR DEVICES HAVING MERGED SPLIT-WELL BODY REGIONS THEREIN	09092334	6/5/1998	6121089	9/19/2000	Fairchild Semiconductor Corporation
40.	TRENCH MOS GATE DEVICE	09096217	6/11/1998	6368920	4/9/2002	Fairchild Semiconductor Corporation

No.	Title	App No.	App. Date	Reg. No.	Reg. Date	Owner
41.	METHOD FOR DOPING SEMICONDUCTOR MATERIALS	09105420	6/26/1998	6015459	1/18/2000	Fairchild Semiconductor Corporation
42.	SEMICONDUCTOR DEVICE HAVING REDUCED EFFECTIVE SUBSTRATE RESISTIVITY AND ASSOCIATED METHODS	09107721	6/30/1998	6104062	8/15/2000	Fairchild Semiconductor Corporation
43.	HIGH VOLTAGE SEMICONDUCTOR STRUCTURE	09108962	7/2/1998	6066878	5/23/2000	Fairchild Semiconductor Corporation
44.	CONDUCTIVITY ENHANCED MOS-GATED SEMICONDUCTOR DEVICES	09114769	7/14/1998	6285056	9/4/2001	Fairchild Semiconductor Corporation
45.	HIGH PERFORMANCE FLIP CHIP PACKAGE	09129663	8/5/1998	6133634	10/17/2000	Fairchild Semiconductor Corporation
46.	LOW VOLTAGE, HIGH SPEED MULTIPLEXER	09132594	8/11/1998	6137340	10/24/2000	Fairchild Semiconductor Corporation
47.	FABRICATION OF CONDUCTIVITY ENHANCED MOS-GATED SEMICONDUCTOR DEVICES	09133030	8/12/1998	5970343	10/19/1999	Fairchild Semiconductor Corporation
48.	OUTPUT BUFFER FOR REDUCING SWITCHING NOISE	09136246	8/19/1998	6060938	5/9/2000	Fairchild Semiconductor Corporation
49.	PROCESSING SYSTEM HAVING VACUUM MANIFOLD ISOLATION	09138174	8/21/1998	6041817	3/28/2000	Fairchild Semiconductor Corporation
50.	HETEROJUNCTION BIPOLAR MIXER CIRCUITRY	09138581	8/21/1998	6072352	6/6/2000	Fairchild Semiconductor Corporation
51.	HETEROJUNCTION BIPOPLAR MIXER CIRCUITRY	09138582	8/21/1998	6046486	4/4/2000	Fairchild Semiconductor Corporation
52.	LOW RESISTANCE PACKAGE FOR SEMICONDUCTOR DEVICES	09141184	8/27/1998	6423623	7/23/2002	Fairchild Semiconductor Corporation
53.	METHOD OF MAKING SHALLOW WELL MOSFET STRUCTURE	09145513	9/2/1998	6107127	8/22/2000	Fairchild Semiconductor Corporation

No.	Title	App No.	App. Date	Reg. No.	Reg. Date	Owner
54.	SPREAD SPECTRUM MODULATION TECHNIQUE FOR FREQUENCY SYNTHESIZERS	09149770	9/8/1998	6351485	2/26/2002	Fairchild Semiconductor Corporation
55.	STEP-UP/STEP-DOWN VOLTAGE REGULATOR USING AN MOS SYNCHRONOUS RECTIFIER	09158035	9/22/1998	5929615	7/27/1999	Fairchild Semiconductor Corporation
56.	DIFFERENTIAL TO SINGLE-ENDED VIDEO CABLE DRIVER HAVING BICMOS CURRENT-MODE OPERATIONAL AMPLIFIER	09165699	10/2/1998	6107887	8/22/2000	Fairchild Semiconductor Corporation
57.	POWER MODULE WITH LOWERED INDUCTANCE AND REDUCED VOLTAGE OVERSHOOTS	09167203	10/6/1998	6069403	5/30/2000	Fairchild Semiconductor Corporation
58.	CONTROLLING GAS DISCHARGE LAMP INTENSITY WITH POWER REGULATION AND END OF LIFE PROTECTION	09168211	10/7/1998	6232727	5/15/2001	Fairchild Semiconductor Corporation
59.	PROGRAMMABLE CIRCUIT FOR SENSING COMPUTER POINTING DEVICES TO SINK A DIFFERENT AMOUNT OF CURRENT DEPENDING ON THE REQUIREMENTS OF THE DEVICE	09182995	10/29/1998	6226696	5/1/2001	Fairchild Semiconductor Corporation
60.	SEMICONDUCTOR BILATERAL SWITCH	09186770	11/5/1998	6424035	7/23/2002	Fairchild Semiconductor Corporation
61.	POWER-ON RESET CIRCUIT	09190308	11/12/1998	6160429	12/12/2000	Fairchild Semiconductor Corporation
62.	UNDERSHOOT HARDENED FET SWITCH	09219403	12/23/1998	5963080	10/5/1999	Fairchild Semiconductor Corporation
63.	INTERLEAVED ZERO CURRENT SWITCHING IN A POWER FACTOR CORRECTION BOOST CONVERTER	09231523	1/14/1999	6091233	7/18/2000	Fairchild Semiconductor Corporation
64.	LOAD CURRENT SHARING AND CASCADED POWER SUPPLY MODULES	09232187	1/14/1999	6166455	12/26/2000	Fairchild Semiconductor Corporation
65.	PROGRAMMABLE LOW BATTERY DETECTOR	09233723	1/8/1999	6373256	4/16/2002	Fairchild Semiconductor Corporation
66.	OVERVOLTAGE/UNDERVOLTAGE TOLERANT TRANSFER GATE	09240544	1/29/1999	6163199	12/19/2000	Fairchild Semiconductor Corporation



No.	Title	App No.	App. Date	Reg. No.	Reg. Date	Owner
67.	SEMICONDUCTOR TRENCH MOS DEVICES	09255092	2/22/1999	6077744	6/20/2000	Fairchild Semiconductor Corporation
68.	MOS-GATED DEVICE HAVING A BURIED GATE AND PROCESS FOR FORMING SAME	09260411	3/1/1999	6351009	2/26/2002	Fairchild Semiconductor Corporation
69.	MONOLITHICALLY INTEGRATED TRENCH MOSFET AND SCHOTTKY DIODE	09267921	2/26/1999	6351018	2/26/2002	Fairchild Semiconductor Corporation
70.	TRENCH TRANSISTOR WITH A SELF-ALIGNED SOURCE	09282274	3/31/1999	6316806	11/13/2001	Fairchild Semiconductor Corporation
71.	HIGH DENSITY MOS-GATED POWER DEVICE AND PROCESS FOR FORMING SAME	09283531	4/1/1999	6188105	2/13/2001	Fairchild Semiconductor Corporation
72.	PROGRAMMABLE MULTI-SCHEME CLOCKING CIRCUIT	09298686	4/23/1999	6157265	12/5/2000	Fairchild Semiconductor Corporation
73.	METHOD AND CIRCUIT FOR PREVENTING OSCILLATIONS IN A BATTERY CHARGER	09301155	4/28/1999	6104170	8/15/2000	Fairchild Semiconductor Corporation
74.	POWER MOS DEVICE WITH INCREASED CHANNEL WIDTH AND PROCESS FOR FORMING SAME	09303270	4/30/1999	6218701	4/17/2001	Fairchild Semiconductor Corporation
75.	MOS-GATED POWER DEVICE HAVING EXTENDED TRENCH AND DOPING ZONE AND PROCESS FOR FORMING SAME	09314323	5/19/1999	6198127	3/6/2001	Fairchild Semiconductor Corporation
76.	TRENCH-GATED DEVICE HAVING TRENCH WALLS FORMED BY SELECTIVE EPITAXIAL GROWTH AND PROCESS FOR FORMING DEVICE	09318334	5/25/1999	6373098	4/16/2002	Fairchild Semiconductor Corporation
77.	BUS HOLD CIRCUIT WITH OVERVOLTAGE TOLERANCE	09323868	6/1/1999	6150845	11/21/2000	Fairchild Semiconductor Corporation
78.	LOW VOLTAGE DUAL-WELL MOS DEVICE HAVING HIGH RUGGEDNESS, LOW ON-RESISTANCE, AND IMPROVED BODY DIODE REVERSE RECOVERY	09324553	6/3/1999	6137139	10/24/2000	Fairchild Semiconductor Corporation

No.	Title	App No.	App. Date	Reg. No.	Reg. Date	Owner
79.	POWER DEVICE	09330437	6/11/1999	6078077	6/20/2000	Fairchild Semiconductor Corporation
80.	POWER MODULE WITH LOWERED INDUCTANCE AND REDUCED VOLTAGE OVERSHOOTS	09334098	6/16/1999	6140152	10/31/2000	Fairchild Semiconductor Corporation
81.	METHOD AND CIRCUIT FOR PERFORMING AUTOMATIC POWER ON RESET OF AN INTEGRATED CIRCUIT	09336917	6/21/1999	6473852	10/29/2002	Fairchild Semiconductor Corporation
82.	TRENCH STRUCTURE SUBSTANTIALLY FILLED WITH HIGH-CONDUCTIVITY MATERIAL	09343330	6/30/1999	6274905	8/14/2001	Fairchild Semiconductor Corporation
83.	POWER MEASUREMENT FOR ADAPTIVE BATTERY CHARGER	09352437	7/13/1999	6144187	11/7/2000	Fairchild Semiconductor Corporation
84.	DOUBLY GRADED JUNCTION TERMINATION EXTENSION FOR EDGE PASSIVATION OF SEMICONDUCTOR DEVICES	09358625	7/21/1999	6215168	4/10/2001	Fairchild Semiconductor Corporation
85.	JITTER CANCELLATION TECHNIQUE FOR VIDEO CLOCK RECOVERY CIRCUITRY	09390733	9/7/1999	6556249	4/29/2003	Fairchild Semiconductor Corporation
86.	ACTIVE UNDERSHOOT HARDENED FET SWITCH	09412038	10/4/1999	6236259	5/22/2001	Fairchild Semiconductor Corporation
87.	METHOD AND APPARATUS FOR RECEIVING VIDEO SIGNALS FROM A PLURALITY OF VIDEO CAMERAS	09414307	10/6/1999	7065140	6/20/2006	Fairchild Semiconductor Corporation
88.	LOSSLESS CURRENT SENSING IN BUCK CONVERTERS WORKING WITH LOW DUTY CYCLES AND HIGH CLOCK FREQUENCIES	09432916	11/2/1999	6166528	12/26/2000	Fairchild Semiconductor Corporation
89.	UNIVERSAL PULSE WIDTH MODULATING POWER CONVERTER	09436074	11/8/1999	6344980	2/5/2002	Fairchild Semiconductor Corporation
90.	METHOD OF INCREASING TRENCH DENSITY FOR SEMICONDUCTOR	09447933	11/24/1999	6291310	9/18/2001	Fairchild Semiconductor Corporation
91.	HYDROGEN ANNEAL FOR CREATING AN ENHANCED TRENCH FOR TRENCH MOSFETS	09448884	11/24/1999	6825087	11/30/2004	Fairchild Semiconductor Corporation

No.	Title	App No.	App. Date	Reg. No.	Reg. Date	Owner
92.	EMITTER BALLAST RESISTOR WITH ENHANCED BODY EFFECT TO IMPROVE THE SHORT CIRCUIT WITHSTAND CAPABILITY OF POWER DEVICES	09450872	11/29/1999	6437419	8/20/2002	Fairchild Semiconductor Corporation
93.	FLIP CHIP IN LEADED MOLDED PACKAGE AND METHOD OF MANUFACTURE THEREOF	09464885	12/16/1999	6720642	4/13/2004	Fairchild Semiconductor Corporation
94.	POWER MOS DEVICE WITH IMPROVED GATE CHARGE PERFORMANCE	09468269	12/20/1999	6461918	10/8/2002	Fairchild Semiconductor Corporation
95.	METHOD OF MAKING A CHIP DEVICE	09487969	1/18/2000	6762067	7/13/2004	Fairchild Semiconductor Corporation
96.	LOAD SHARE CONTROLLER FOR BALANCING CURRENT BETWEEN MULTIPLE SUPPLY MODULES	09495826	2/1/2000	6236582	5/22/2001	Fairchild Semiconductor Corporation
97.	SEMICONDUCTOR STRUCTURES WITH TRENCH CONTACTS	09498476	2/4/2000	6437399	8/20/2002	Fairchild Semiconductor Corporation
98.	MOS-GATED DEVICES WITH ALTERNATING ZONES OF CONDUCTIVITY	09502712	2/11/2000	6376878	4/23/2002	Fairchild Semiconductor Corporation
99.	MULTIPLE VOLTAGE OUTPUT BUCK CONVERTER WITH A SINGLE INDUCTOR	09511091	2/23/2000	6222352	4/24/2001	Fairchild Semiconductor Corporation
100.	POWER TRENCH TRANSISTOR DEVICE SOURCE REGION FORMATION USING SILICON SPACER	09525182	3/14/2000	6246090	6/12/2001	Fairchild Semiconductor Corporation
101.	POWER DEVICE	09542561	4/4/2000	6236083	5/22/2001	Fairchild Semiconductor Corporation
102.	FLIP CLIP ATTACH AND COPPER CLIP ATTACH ON MOSFET DEVICE	09548946	4/13/2000	6870254	3/22/2005	Fairchild Semiconductor Corporation

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103.	SEMICONDUCTOR DEVICE HAVING REDUCED EFFECTIVE SUBSTRATE RESISTIVITY AND ASSOCIATED METHODS	09551187	4/17/2000	7098108	8/29/2006	Fairchild Semiconductor Corporation
104.	SHORT-CIRCUIT CURRENT-LIMIT CIRCUIT	09566857	5/8/2000	6285177	9/4/2001	Fairchild Semiconductor Corporation
105.	METHOD OF MANUFACTURING A TRENCH MOSFET USING SELECTIVE GROWTH EPITAXY	09586720	6/5/2000	6391699	5/21/2002	Fairchild Semiconductor Corporation
106.	VOLTAGE BOOST CIRCUIT WITH LOW POWER SUPPLY VOLTAGE	09603405	6/26/2000	6356137	3/12/2002	Fairchild Semiconductor Corporation
107.	SOFT RECOVERY POWER DIODE AND RELATED METHOD	09603605	6/26/2000	6737731	5/18/2004	Fairchild Semiconductor Corporation
108.	FLIP CHIP SUBSTRATE DESIGN	09619115	7/19/2000	6661082	12/9/2003	Fairchild Semiconductor Corporation
109.	POWER MOS DEVICE WITH BURIED GATE AND GROOVE	09624533	7/24/2000	6445035	9/3/2002	Fairchild Semiconductor Corporation
110.	METHOD FOR CREATING THICK OXIDE ON THE BOTTOM SURFACE OF A TRENCH STRUCTURE IN SILICON	09640954	8/16/2000	6437386	8/20/2002	Fairchild Semiconductor Corporation
111.	VERTICAL MOSFET WITH ULTRA-LOW RESISTANCE AND LOW GATE CHARGE	09640955	8/16/2000	6696726	2/24/2004	Fairchild Semiconductor Corporation
112.	TRENCH CORNER PROTECTION FOR TRENCH MOSFET	09642071	8/18/2000	6700158	3/2/2004	Fairchild Semiconductor Corporation
113.	POWER SEMICONDUCTOR DEVICE WITH IMPROVED UNCLAMPED INDUCTIVE SWITCHING CAPABILITY AND PROCESS FOR FORMING SAME	09654845	9/1/2000	7332750	2/19/2008	Fairchild Semiconductor Corporation

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114.	FET SENSING PROGRAMMABLE ACTIVE DROOP FOR POWER SUPPLIES	9656499	9/7/2000	6528976	3/4/2003	Fairchild Semiconductor Corporation
115.	PROCESS FOR MAKING A NON-VOLATILE MEMORY CELL WITH A POLYSILICON SPACER DEFINED SELECT GATE AND RELATED STRUCTURE	09657882	9/8/2000	6365449	4/2/2002	Fairchild Semiconductor Corporation
116.	LOW VOLTAGE CHARGE PUMP EMPLOYING OPTIMIZED CLOCK AMPLITUDES	09661485	9/14/2000	6356469	3/12/2002	Fairchild Semiconductor Corporation
117.	LOW VOLTAGE CHARGE PUMP EMPLOYING DISTRIBUTED CHARGE BOOSTING	09662207	9/14/2000	6385065	5/7/2002	Fairchild Semiconductor Corporation
118.	MODE SELECT CIRCUIT	09662367	9/13/2000	6351175	2/26/2002	Fairchild Semiconductor Corporation
119.	INTEGRATED CIRCUIT DEVICE INCLUDING A DEEP WELL REGION AND ASSOCIATED METHODS	09664024	9/19/2000	6534828	3/18/2003	Fairchild Semiconductor Corporation
120.	CONTACT METHOD FOR THIN SILICON CARBIDE EPITAXIAL LAYER AND SEMICONDUCTOR DEVICES FORMED BY THOSE METHODS	09682151	7/27/2001	7132701	11/7/2006	Fairchild Semiconductor Corporation
121.	MOS-GATED POWER DEVICE HAVING SEGMENTED TRENCH AND EXTENDED DOPING ZONE AND PROCESS FOR FORMING SAME	09689939	10/12/2000	6433385	8/13/2002	Fairchild Semiconductor Corporation
122.	COLUMN BALL GRID ARRAY PACKAGE	09703474	10/31/2000	6391687	5/21/2002	Fairchild Semiconductor Corporation
123.	TECHNIQUE TO STABILIZE THE CHROMINANCE SUBCARRIER GENERATION IN A LINE-LOCKED DIGITAL VIDEO SYSTEM	09703517	10/31/2000	6741289	5/25/2004	Fairchild Semiconductor Corporation
124.	FET SWITCH WITH OVERVOLTAGE PROTECTION	09713587	11/15/2000	6538867	3/25/2003	Fairchild Semiconductor Corporation
125.	METHOD AND APPARATUS FOR IMPLEMENTING IMPROVED PULSE WIDTH MODULATION	09724706	11/28/2000	6342822	1/29/2002	Fairchild Semiconductor Corporation
126.	FLIP CHIP IN LEADED MOLDED PACKAGE WITH TWO DIES	09730932	12/4/2000	6798044	9/28/2004	Fairchild Semiconductor Corporation

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127.	MOS-GATED POWER DEVICE WITH DOPED POLYSILICON BODY AND PROCESS FOR FORMING SAME	09731169	12/6/2000	6365942	4/2/2002	Fairchild Semiconductor Corporation
128.	TRANSLATING SWITCH CIRCUIT WITH DISABLING OPTION	09737977	12/15/2000	6433613	8/13/2002	Fairchild Semiconductor Corporation
129.	COMPARATOR CIRCUIT	9759817	1/10/2001	6373328	4/16/2002	Fairchild Semiconductor Corporation
130.	LOW VOLTAGE DUAL-WELL TRENCH MOS DEVICE	09767092	1/22/2001	6552391	4/22/2003	Fairchild Semiconductor Corporation
131.	FIELD EFFECT TRANSISTOR HAVING A LATERAL DEPLETION STRUCTURE	09774780	1/30/2001	6713813	3/30/2004	Fairchild Semiconductor Corporation
132.	HIGH FREQUENCY MOSFET SWITCH	09780199	2/9/2001	6396325	5/28/2002	Fairchild Semiconductor Corporation
133.	SEMICONDUCTOR DEVICE INCLUDING STACKED DIES MOUNTED ON A LEADFRAME	09805597	3/12/2001	6777786	8/17/2004	Fairchild Semiconductor Corporation
134.	EDGE TERMINATION FOR SILICON POWER DEVICES	09815672	3/23/2001	6362026	3/26/2002	Fairchild Semiconductor Corporation
135.	PACKAGING SYSTEM FOR DIE-UP CONNECTION OF A DIE-DOWN ORIENTED INTEGRATED CIRCUIT	09823600	3/30/2001	6891257	5/10/2005	Fairchild Semiconductor Corporation
136.	TRENCH TRANSISTOR WITH SELF-ALIGNED SOURCE	09839523	4/20/2001	6583010	6/24/2003	Fairchild Semiconductor Corporation
137.	POWER MOSFET AND METHOD FOR FORMING SAME USING A SELF-ALIGNED BODY IMPLANT	09844347	4/27/2001	6921939	7/26/2005	Fairchild Semiconductor Corporation
138.	CARRIER WITH METAL BUMPS FOR SEMICONDUCTOR DIE PACKAGES	09855820	5/14/2001	6893901	5/17/2005	Fairchild Semiconductor Corporation
139.	POWER CHIP SCALE PACKAGE	09858811	5/15/2001	6646329	11/11/2003	Fairchild Semiconductor Corporation

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140.	SYSTEM AND METHOD FOR SYNCHRONIZING MULTIPLE PHASE-LOCK LOOPS OR OTHER SYNCHRONIZABLE OSCILLATORS WITHOUT USING A MASTER CLOCK SIGNAL	09860099	5/17/2001	6538516	3/25/2003	Fairchild Semiconductor Corporation
141.	DIFFERENTIAL CURRENT MODE GAIN STAGE AND METHODS OF USING THE SAME	09863574	5/23/2001	6469578	10/22/2002	Fairchild Semiconductor Corporation
142.	BI-DIRECTIONAL OPTICAL COUPLER	09865282	5/25/2001	6556750	4/29/2003	Fairchild Semiconductor Corporation
143.	SEMICONDUCTOR DIE INCLUDING CONDUCTIVE COLUMNS	09881787	6/15/2001	6683375	1/27/2004	Fairchild Semiconductor Corporation
144.	AUXILIARY CIRCUITRY FOR MONOLITHIC MICROWAVE INTEGRATED CIRCUIT	09897749	7/2/2001	6424224	7/23/2002	Fairchild Semiconductor Corporation
145.	TRENCH STRUCTURE FOR SEMICONDUCTOR DEVICES	09898133	7/3/2001	6683363	1/27/2004	Fairchild Semiconductor Corporation
146.	SYSTEMS FOR RAIL-TO-RAIL DYNAMICALLY CONTROLLED AMPLIFIERS AND INPUT STAGES	09925212	8/8/2001	6509794	1/21/2003	Fairchild Semiconductor Corporation
147.	TRENCH ETCH WITH INCREMENTAL OXYGEN FLOW	09956568	9/19/2001	6680232	1/20/2004	Fairchild Semiconductor Corporation
148.	SEMICONDUCTOR DEVICE INCLUDING MOLDED WIRELESS EXPOSED DRAIN PACKAGING	09963049	9/24/2001	6989588	1/24/2006	Fairchild Semiconductor Corporation
149.	SEMICONDUCTOR STRUCTURE WITH IMPROVED SMALLER FORWARD VOLTAGE LOSS AND HIGHER BLOCKING CAPABILITY	09981583	10/17/2001	6677641	1/13/2004	Fairchild Semiconductor Corporation
150.	TRENCH MOSFET WITH LOW GATE CHARGE	09992629	11/6/2001	6573569	6/3/2003	Fairchild Semiconductor Corporation
151.	TRENCH MOSFET WITH REDUCED MILLER CAPACITANCE	09993145	11/6/2001	6573560	6/3/2003	Fairchild Semiconductor Corporation
152.	RADIO FREQUENCY (RF) POWER DEVICES HAVING FARADAY SHIELD LAYERS THEREIN	09993412	11/5/2001	6653691	11/25/2003	Fairchild Semiconductor Corporation

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153.	OVER-VOLTAGE PROTECTION CIRCUIT	10027708	12/19/2001	6731486	5/4/2004	Fairchild Semiconductor Corporation
154.	UNIFORM CONTACT	10029101	12/20/2001	6955978	10/18/2005	Fairchild Semiconductor Corporation
155.	MOS-GATED DEVICE HAVING A BURIED GATE AND PROCESS FOR FORMING SAME	10039319	11/9/2001	6916712	7/12/2005	Fairchild Semiconductor Corporation
156.	SEMICONDUCTOR DIE PACKAGE WITH IMPROVED THERMAL AND ELECTRICAL PERFORMANCE	10050428	1/15/2002	6566749	5/20/2003	Fairchild Semiconductor Corporation
157.	THICK BUFFER REGION DESIGN TO IMPROVE IGBT SELF-CLAMPED INDUCTIVE SWITCHING (SCIS) ENERGY DENSITY AND DEVICE MANUFACTURABILITY	10050976	1/18/2002	6777747	8/17/2004	Fairchild Semiconductor Corporation
158.	SELF-ALIGNED TRENCH MOSFETS AND METHODS FOR MAKING THE SAME	10052234	1/16/2002	7078296	7/18/2006	Fairchild Semiconductor Corporation
159.	IGBT WITH CHANNEL RESISTORS	10055211	1/23/2002	6798019	9/28/2004	Fairchild Semiconductor Corporation
160.	METHOD OF FORMING A TRENCH TRANSISTOR HAVING A SUPERIOR GATE DIELECTRIC	10077258	2/14/2002	6927134	8/9/2005	Fairchild Semiconductor Corporation
161.	PROCESS FOR DEPOSITING AND PLANARIZING BPSG FOR DENSE TRENCH MOSFET APPLICATION	10082944	2/26/2002	6465325	10/15/2002	Fairchild Semiconductor Corporation
162.	ULTRA DENSE TRENCH-GATED POWER DEVICE WITH THE REDUCED DRAIN-SOURCE FEEDBACK CAPACITANCE AND MILLER CHARGE	10092692	3/7/2002	6683346	1/27/2004	Fairchild Semiconductor Corporation
163.	FIELD COUPLED POWER MOSFET BUS ARCHITECTURE USING TRENCH TECHNOLOGY	10105721	3/25/2002	6673680	1/6/2004	Fairchild Semiconductor Corporation
164.	CURRENT SHUTDOWN CIRCUIT FOR ACTIVE BIAS CIRCUIT HAVING PROCESS VARIATION COMPENSATION	10135719	4/30/2002	6600301	7/29/2003	Fairchild Semiconductor Corporation



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165.	LOW VOLTAGE HIGH DENSITY TRENCH-GATED POWER DEVICE WITH UNIFORMLY DOPED CHANNEL AND ITS EDGE TERMINATION TECHNIQUE	10138913	5/3/2002	6784505	8/31/2004	Fairchild Semiconductor Corporation
166.	BANDGAP REFERENCE CIRCUIT	10143065	5/9/2002	6853164	2/8/2005	Fairchild Semiconductor Corporation
167.	FIELD EFFECT TRANSISTOR AND METHOD OF ITS MANUFACTURE	10155554	5/24/2002	6710406	3/23/2004	Fairchild Semiconductor Corporation
168.	PROCESS FOR FORMING MOS-GATED POWER DEVICE HAVING SEGMENTED TRENCH AND EXTENDED DOPING ZONE	10174641	6/19/2002	6673681	1/6/2004	Fairchild Semiconductor Corporation
169.	METHOD FOR CREATING THICK OXIDE ON THE BOTTOM SURFACE OF A TRENCH STRUCTURE IN SILICON	10177783	6/19/2002	6861296	3/1/2005	Fairchild Semiconductor Corporation
170.	SEMICONDUCTOR STRUCTURES WITH TRENCH CONTACTS	10187560	7/2/2002	6630711	10/7/2003	Fairchild Semiconductor Corporation
171.	POWER MOS DEVICE WITH BURIED GATE	10195984	7/16/2002	6638826	10/28/2003	Fairchild Semiconductor Corporation
172.	HIGHLY EFFICIENT STEP-DOWN/STEP-UP AND STEP-UP/STEP-DOWN CHARGE PUMP	10196790	7/16/2002	6657875	12/2/2003	Fairchild Semiconductor Corporation
173.	VERTICAL CHARGE CONTROL SEMICONDUCTOR DEVICE	10200056	7/18/2002	6803626	10/12/2004	Fairchild Semiconductor Corporation
174.	ACTIVE POWER/GROUND ESD TRIGGER	10207625	7/29/2002	7079369	7/18/2006	Fairchild Semiconductor Corporation
175.	CAPACITIVELY COUPLED CURRENT BOOST CIRCUITRY FOR INTEGRATED VOLTAGE REGULATOR	10208951	7/31/2002	6894553	5/17/2005	Fairchild Semiconductor Corporation
176.	DUAL TRENCH POWER MOSFET	10209110	7/30/2002	6710403	3/23/2004	Fairchild Semiconductor Corporation
177.	PACKAGED SEMICONDUCTOR DEVICE AND METHOD OF MANUFACTURE USING SHAPED DIE	10210515	7/31/2002	7084488	8/1/2006	Fairchild Semiconductor Corporation

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178.	METHOD AND CIRCUIT FOR REDUCING LOSSES IN DC-DC CONVERTERS	10222481	8/16/2002	6930473	8/16/2005	Fairchild Semiconductor Corporation
179.	HIGH EFFICIENCY LED DRIVER	10229602	8/27/2002	6690146	2/10/2004	Fairchild Semiconductor Corporation
180.	SUBSTRATE BASED UNMOLDED PACKAGE INCLUDING LEAD FRAME STRUCTURE AND SEMICONDUCTOR DIE	10233248	8/30/2002	7061077	6/13/2006	Fairchild Semiconductor Corporation
181.	UNMOLDED PACKAGE FOR A SEMICONDUCTOR DEVICE	10235249	9/4/2002	6740541	5/25/2004	Fairchild Semiconductor Corporation
182.	TERMINATION STRUCTURE INCORPORATING INSULATOR IN A TRENCH	10247461	9/19/2002	6825510	11/30/2004	Fairchild Semiconductor Corporation
183.	BURIED GATE-FIELD TERMINATION STRUCTURE	10247464	9/19/2002	6818947	11/16/2004	Fairchild Semiconductor Corporation
184.	SEMICONDUCTOR DIE PACKAGE INCLUDING DRAIN CLIP	10262170	9/30/2002	6777800	8/17/2004	Fairchild Semiconductor Corporation
185.	TRENCH GATE Laterally Diffused MOSFET DEVICES AND METHODS FOR MAKING SUCH DEVICES	10269126	10/3/2002	7033891	4/25/2006	Fairchild Semiconductor Corporation
186.	SCHOTTKY RECTIFIER WITH INSULATION-FILLED TRENCHES AND METHOD OF FORMING THE SAME	10269244	10/11/2002	6710418	3/23/2004	Fairchild Semiconductor Corporation
187.	THIN, THERMALLY ENHANCED FLIP CHIP IN A LEADED MOLDED PACKAGE	10271654	10/15/2002	6891256	5/10/2005	Fairchild Semiconductor Corporation
188.	QUICK PUNCH THROUGH IGBT HAVING GATE-CONTROLLABLE DI/DT AND REDUCED EMI DURING INDUCTIVE TURN OFF	10278224	10/22/2002	6831329	12/14/2004	Fairchild Semiconductor Corporation
189.	TRIGGERING OF AN ESD NMOS THROUGH THE USE OF AN N-TYPE BURIED LAYER	10280313	10/25/2002	6855964	2/15/2005	Fairchild Semiconductor Corporation
190.	TRENCH STRUCTURE HAVING ONE OR MORE DIODES EMBEDDED THEREIN ADJACENT A PN JUNCTION	10288982	11/5/2002	7132712	11/7/2006	Fairchild Semiconductor Corporation

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191.	FAILSAFE DIFFERENTIAL AMPLIFIER CIRCUIT	10292119	11/12/2002	6781456	8/24/2004	Fairchild Semiconductor Corporation
192.	DYNAMICALLY CONTROLLED AMPLIFIER	10301375	11/20/2002	6784733	8/31/2004	Fairchild Semiconductor Corporation
193.	ACTIVE VOLTAGE LEVEL BUS SWITCH (OR PASS GATE) TRANSLATOR	10301465	11/21/2002	6781415	8/24/2004	Fairchild Semiconductor Corporation
194.	INTEGRATED CIRCUIT STRUCTURE WITH IMPROVED LDMOS DESIGN	10315517	12/10/2002	6870218	3/22/2005	Fairchild Semiconductor Corporation
195.	METHOD OF ISOLATING THE CURRENT SENSE ON POWER DEVICES WHILE MAINTAINING A CONTINUOUS STRIPE CELL	10315719	12/10/2002	6906362	6/14/2005	Fairchild Semiconductor Corporation
196.	MULTICHIP MODULE INCLUDING SUBSTRATE WITH AN ARRAY OF INTERCONNECT STRUCTURES	10330741	12/26/2002	6806580	10/19/2004	Fairchild Semiconductor Corporation
197.	SEMICONDUCTOR DIE PACKAGE WITH SEMICONDUCTOR DIE HAVING SIDE ELECTRICAL CONNECTION	10346682	1/17/2003	6830959	12/14/2004	Fairchild Semiconductor Corporation
198.	METHOD OF MANUFACTURING A TRENCH TRANSISTOR HAVING A HEAVY BODY REGION	10347254	1/17/2003	6828195	12/7/2004	Fairchild Semiconductor Corporation
199.	HIGH VALUE SPLIT POLY P-RESISTOR WITH LOW STANDARD DEVIATION	10355317	1/31/2003	6885280	4/26/2005	Fairchild Semiconductor Corporation
200.	METHOD AND STRUCTURE FOR BICMOS ISOLATED NMOS TRANSISTOR	10368253	2/18/2003	6927460	8/9/2005	Fairchild Semiconductor Corporation
201.	SOFT START TECHNIQUES FOR CONTROL LOOPS THAT REGULATE DC/DC CONVERTERS	10370047	2/18/2003	6933710	8/23/2005	Fairchild Semiconductor Corporation
202.	DUAL METAL STUD BUMPING FOR FLIP CHIP APPLICATIONS	10386211	3/10/2003	7271497	9/18/2007	Fairchild Semiconductor Corporation
203.	QUASI SELF-ALIGNED SINGLE POLYSILICON BIPOLAR ACTIVE DEVICE WITH INTENTIONAL EMITTER WINDOW UNDERCUT	10395460	3/24/2003	6972472	12/6/2005	Fairchild Semiconductor Corporation

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204.	PACKAGING SYSTEM FOR SEMICONDUCTOR DEVICES	10397436	3/25/2003	7323361	1/29/2008	Fairchild Semiconductor Corporation
205.	SWITCHABLE AMPLIFIER CIRCUIT HAVING REDUCED SHUTDOWN CURRENT	10406334	4/3/2003	6803821	10/12/2004	Fairchild Semiconductor Corporation
206.	POWER CIRCUITRY WITH A THERMIONIC COOLING SYSTEM	10408471	4/7/2003	6809417	10/26/2004	Fairchild Semiconductor Corporation
207.	LEAD FRAME STRUCTURE WITH APERTURE OR GROOVE FOR FLIP CHIP IN A LEADED MOLDED PACKAGE	10411688	4/11/2003	6867481	3/15/2005	Fairchild Semiconductor Corporation
208.	PLL FOR CLOCK RECOVERY WITH INITIALIZATION SEQUENCE	10412448	4/11/2003	6794945	9/21/2004	Fairchild Semiconductor Corporation
209.	ROBUST LEADED MOLDED PACKAGES AND METHODS FOR FORMING THE SAME	10413668	4/14/2003	7122884	10/17/2006	Fairchild Semiconductor Corporation
210.	STRUCTURE OF INTEGRATED TRACE OF CHIP PACKAGE	10413796	4/14/2003	6836023	12/28/2004	Fairchild Semiconductor Corporation
211.	ESD PROTECTION FOR SEMICONDUCTOR PRODUCTS	10438349	5/14/2003	6873017	3/29/2005	Fairchild Semiconductor Corporation
212.	STRUCTURE AND METHOD FOR FORMING A TRENCH MOSFET HAVING SELF-ALIGNED FEATURES	10442670	5/20/2003	6916745	7/12/2005	Fairchild Semiconductor Corporation
213.	COMMON MODE BIAS CONTROL LOOP FOR OUTPUT STAGES	10447629	5/28/2003	6933785	8/23/2005	Fairchild Semiconductor Corporation
214.	BUS HOLD CIRCUIT WITH POWER-DOWN AND OVER-VOLTAGE TOLERANCE	10602798	6/24/2003	6774675	8/10/2004	Fairchild Semiconductor Corporation
215.	FLIP CHIP IN LEADED MOLDED PACKAGE AND METHOD OF MANUFACTURE THEREOF	10607633	6/27/2003	6949410	9/27/2005	Fairchild Semiconductor Corporation
216.	DENSE TRENCH MOSFET WITH DECREASED ETCH SENSITIVITY TO DEPOSITION AND ETCH PROCESSING	10618067	7/11/2003	7436021	10/14/2008	Fairchild Semiconductor Corporation

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217.	FIELD EFFECT TRANSISTOR AND METHOD OF ITS MANUFACTURE	10630249	7/30/2003	7511339	3/31/2009	Fairchild Semiconductor Corporation
218.	METHOD AND APPARATUS FOR IMPROVED MOS GATING TO REDUCE MILLER CAPACITANCE AND SWITCHING LOSSES	10640742	8/14/2003	6870220	3/22/2005	Fairchild Semiconductor Corporation
219.	RFID TAG WIDE BANDWIDTH LOGARITHMIC SPIRAL ANTENNA METHOD AND SYSTEM	10665166	9/18/2003	6963317	11/8/2005	Fairchild Semiconductor Corporation
220.	METHOD FOR MAINTAINING SOLDER THICKNESS IN FLIPCHIP ATTACH PACKAGING PROCESSES	10678010	10/2/2003	6943434	9/13/2005	Fairchild Semiconductor Corporation
221.	CHARGE PUMPING SYSTEM AND METHOD	10678678	10/3/2003	6920055	7/19/2005	Fairchild Semiconductor Corporation
222.	SEMICONDUCTOR DEVICES CONTAINING ON-CHIP CURRENT SENSOR AND METHODS FOR MAKING SUCH DEVICES	10682107	10/9/2003	7199435	4/3/2007	Fairchild Semiconductor Corporation
223.	VOLTAGE DIVIDER FIELD PLATE TERMINATION WITH UNEQUAL FIXED BIASING	10682323	10/9/2003	7230313	6/12/2007	Fairchild Semiconductor Corporation
224.	CURRENT INTEGRATING SENSE AMPLIFIER FOR MEMORY MODULES IN RFID	10685371	10/14/2003	6813209	11/2/2004	Fairchild Semiconductor Corporation
225.	METHOD OF AND APPARATUS FOR DRIVING A DUAL GATED MOSFET	10686859	10/16/2003	6870217	3/22/2005	Fairchild Semiconductor Corporation
226.	ZERO-VOLTAGE-SWITCHING SINGLE-SWITCHED RESONANT DC LINK WITH MINIMIZED CONDUCTION LOSS	10691734	10/22/2003	7142439	11/28/2006	Fairchild Semiconductor Corporation
227.	FLIP CHIP IN LEADED MOLDED PACKAGE AND METHOD OF MANUFACTURE THEREOF	10702792	11/5/2003	7154168	12/26/2006	Fairchild Semiconductor Corporation
228.	BAND-GAP REFERENCE CIRCUIT WITH HIGH POWER SUPPLY RIPPLE REJECTION RATIO	10718443	11/19/2003	6975101	12/13/2005	Fairchild Semiconductor Corporation
229.	POWER CONVERTER HAVING IMPROVED CONTROL	10719505	11/21/2003	7057907	6/6/2006	Fairchild Semiconductor Corporation

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230.	FAILSAFE FOR DIFFERENTIAL CIRCUIT BASED ON CURRENT SENSE SCHEME	10720568	11/24/2003	6927599	8/9/2005	Fairchild Semiconductor Corporation
231.	DIGITAL CONTROL OF SWITCHING VOLTAGE REGULATORS	10725699	12/1/2003	7498786	3/3/2009	Fairchild Semiconductor Corporation
232.	DIGITAL LOOP FOR REGULATING DC/DC CONVERTER WITH SEGMENTED SWITCHING	10726723	12/3/2003	6995995	2/7/2006	Fairchild Semiconductor Corporation
233.	INTEGRATED FUEL CELL POWER CONDITIONING WITH ADDED FUNCTIONAL CONTROL	10729626	12/5/2003	7141325	11/28/2006	Fairchild Semiconductor Corporation
234.	SYSTEM AND METHOD FOR DRIVING LEDS	10729729	12/5/2003	7116086	10/3/2006	Fairchild Semiconductor Corporation
235.	METHOD OF FORMING A FIELD EFFECT TRANSISTOR HAVING A LATERAL DEPLETION STRUCTURE	10741464	12/18/2003	6818513	11/16/2004	Fairchild Semiconductor Corporation
236.	UNMOLDED PACKAGE FOR A SEMICONDUCTOR DEVICE	10754095	12/29/2003	6953998	10/11/2005	Fairchild Semiconductor Corporation
237.	FULL DIGITAL DIMMING BALLAST FOR A FLUORESCENT LAMP	10758520	1/15/2004	7098605	8/29/2006	Fairchild Semiconductor Corporation
238.	LOW DROPOUT REGULATOR USING GATE MODULATED DIODE	10774581	2/9/2004	6956429	10/18/2005	Fairchild Semiconductor Corporation
239.	CIRCUIT TO LINEARIZE GAIN OF A VOLTAGE CONTROLLED OSCILLATOR OVER WIDE FREQUENCY RANGE	10779891	2/17/2004	7030669	4/18/2006	Fairchild Semiconductor Corporation
240.	CIRCUITRY TO REDUCE PLL LOCK ACQUISITION TIME	10780493	2/17/2004	6940356	9/6/2005	Fairchild Semiconductor Corporation
241.	NO LOAD TO HIGH LOAD RECOVERY TIME IN ULTRAPORTABLE DC-DC CONVERTERS	10793960	3/4/2004	7385379	6/10/2008	Fairchild Semiconductor Corporation
242.	LOW VOLTAGE HIGH DENSITY TRENCH-GATED POWER DEVICE WITH UNIFORMITY DOPED CHANNEL AND ITS EDGE TERMINATION TECHNIQUE	10795723	3/5/2004	6946348	9/20/2005	Fairchild Semiconductor Corporation

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243.	CARRIER WITH METAL BUMPS FOR SEMICONDUCTOR DIE PACKAGES	10799895	3/11/2004	7023077	4/4/2006	Fairchild Semiconductor Corporation
244.	RESONANT LOSSLESS CIRCUIT FOR PROVIDING A LOW OPERATING VOLTAGE IN POWER CONVERTER	10803303	3/18/2004	7239531	7/3/2007	Fairchild Semiconductor Corporation
245.	SURFACE MOUNT MULTI-CHANNEL OPTOCOUPLER	10817195	4/2/2004	7196313	3/27/2007	Fairchild Semiconductor Corporation
246.	SCHOTTKY DIODE USING CHARGE BALANCE STRUCTURE	10821796	4/9/2004	7061066	6/13/2006	Fairchild Semiconductor Corporation
247.	SENDING AND/OR RECEIVING SERIAL DATA WITH BIT TIMING AND PARALLEL DATA CONVERSION	10824747	4/15/2004	7064690	6/20/2006	Fairchild Semiconductor Corporation
248.	VOLTAGE DETECTOR CIRCUIT WITH A PROGRAMMABLE THRESHOLD POINT	10827013	4/19/2004	6885215	4/26/2005	Fairchild Semiconductor Corporation
249.	FLIP CHIP IN LEADED MOLDED PACKAGE WITH TWO DIES	10834752	4/28/2004	7029947	4/18/2006	Fairchild Semiconductor Corporation
250.	SUBSTRATE BASED UNMOLDED PACKAGE	10841656	5/6/2004	7439613	10/21/2008	Fairchild Semiconductor Corporation
251.	CONTROL CIRCUIT WITH TRACKING TURN ON/OFF DELAY FOR A SINGLE-ENDED FORWARD CONVERTER WITH SYNCHRONOUS RECTIFICATION	10844167	5/12/2004	7113413	9/26/2006	Fairchild Semiconductor Corporation
252.	CURRENT SHARING USING GATE MODULATED DIODES	10846205	5/14/2004	7142046	11/28/2006	Fairchild Semiconductor Corporation
253.	PACKAGED INTEGRATED CIRCUIT WITH MLP LEADFRAME AND METHOD OF MAKING SAME	10847955	5/18/2004	7242076	7/10/2007	Fairchild Semiconductor Corporation
254.	SEMICONDUCTOR DEVICE HAVING A SPACER LAYER DOPED WITH SLOWER DIFFUSING ATOMS THAN SUBSTRATE	10851764	5/21/2004	7132715	11/7/2006	Fairchild Semiconductor Corporation
255.	INTEGRATED TRANSISTOR MODULE AND METHOD OF FABRICATING SAME	10876248	6/24/2004	7501702	3/10/2009	Fairchild Semiconductor Corporation

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256.	METHOD FOR FORMING SEMICONDUCTOR DEVICE INCLUDING STACKED DIES	10888769	7/8/2004	7071033	7/4/2006	Fairchild Semiconductor Corporation
257.	ASYMMETRIC HETERO-DOPED HIGH-VOLTAGE MOSFET (AH2MOS)	10893519	7/15/2004	7125777	10/24/2006	Fairchild Semiconductor Corporation
258.	SCHOTTKY DIODE STRUCTURE TO REDUCE CAPACITANCE AND SWITCHING LOSSES AND METHOD OF MAKING SAME	10893764	7/15/2004	7199442	4/3/2007	Fairchild Semiconductor Corporation
259.	HIGH VOLTAGE INTEGRATED CIRCUIT DRIVER WITH A HIGH VOLTAGE PMOS BOOTSTRAP DIODE EMULATOR	10895568	7/21/2004	7106105	9/12/2006	Fairchild Semiconductor Corporation
260.	CIRCUIT AND METHOD FOR LOWERING INSERTION LOSS AND INCREASING BANDWIDTH IN MOSFET SWITCHES	10920882	8/18/2004	7095266	8/22/2006	Fairchild Semiconductor Corporation
261.	METHOD OF MANUFACTURING A TRENCH TRANSISTOR HAVING A HEAVY BODY REGION	10927788	8/27/2004	7148111	12/12/2006	Fairchild Semiconductor Corporation
262.	VERTICAL CHARGE CONTROL SEMICONDUCTOR DEVICE WITH LOW OUTPUT CAPACITANCE	10931887	8/31/2004	7291894	11/6/2007	Fairchild Semiconductor Corporation
263.	ENHANCED RESURF HVPMOS DEVICE WITH STACKED HETERO-DOPING RIM AND GRADUAL DRIFT REGION	10942318	9/16/2004	7180132	2/20/2007	Fairchild Semiconductor Corporation
264.	CROSSPOINT SWITCH WITH SERIALIZER AND DESERIALIZER FUNCTIONS	10947573	9/22/2004	6980031	12/27/2005	Fairchild Semiconductor Corporation
265.	TRENCH-GATE LDMOS STRUCTURES	10951259	9/26/2004	7576388	8/18/2009	Fairchild Semiconductor Corporation
266.	MOS-GATED TRANSISTOR WITH REDUCED MILLER CAPACITANCE	10962367	10/8/2004	7265415	9/4/2007	Fairchild Semiconductor Corporation
267.	VOLTAGE DETECTION CIRCUIT WITH HYSTERESIS FOR LOW POWER, PORTABLE PRODUCTS	10965300	10/14/2004	7378886	5/27/2008	Fairchild Semiconductor Corporation
268.	METHOD OF FORMING A FET HAVING ULTRA-LOW ON-RESISTANCE AND LOW GATE CHARGE	10997818	11/24/2004	7745289	6/29/2010	Fairchild Semiconductor Corporation



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269.	HIGH-VOLTAGE DIODES FORMED IN ADVANCED POWER INTEGRATED CIRCUIT DEVICES	11005755	12/7/2004	7045830	5/16/2006	Fairchild Semiconductor Corporation
270.	CURRENT CONTROLLED GATE DRIVER FOR POWER SWITCHES	11006345	12/7/047	7449868	11/11/2008	Fairchild Semiconductor Corporation
271.	MULTI-MODE POWER AMPLIFIER	11016397	12/17/2004	7157966	1/2/2007	Fairchild Semiconductor Corporation
272.	HIGH VALUE SPLIT POLY P-RESISTOR WITH LOW STANDARD DEVIATION	11018041	12/21/2004	7078305	7/18/2006	Fairchild Semiconductor Corporation
273.	POWER SEMICONDUCTOR DEVICES AND METHODS OF MANUFACTURE	11026276	12/29/2004	7345342	3/18/2008	Fairchild Semiconductor Corporation
274.	THIN, THERMALLY ENHANCED MOLDED PACKAGE WITH LEADFRAME HAVING PROTRUDING REGION	11048314	1/31/2005	7332806	2/19/2008	Fairchild Semiconductor Corporation
275.	LEAD FRAME STRUCTURE WITH APERTURE OR GROOVE FOR FLIP CHIP IN A LEADED MOLDED PACKAGE	11051061	2/4/2005	7081666	7/25/2006	Fairchild Semiconductor Corporation
276.	FLIP CLIP ATTACH AND COPPER CLIP ATTACH ON MOSFET DEVICE	11051413	2/4/2005	7052938	5/30/2006	Fairchild Semiconductor Corporation
277.	METHOD FOR IMPROVED MOS GATING TO REDUCE MILLER CAPACITANCE AND SWITCHING LOSSES	11052258	2/7/2005	7005353	2/28/2006	Fairchild Semiconductor Corporation
278.	METHOD OF DRIVING A DUAL GATED MOSFET	11052264	2/7/2005	7195979	3/27/2007	Fairchild Semiconductor Corporation
279.	ESD PROTECTION FOR SEMICONDUCTOR PRODUCTS	11054189	2/9/2005	7682918	3/23/2010	Fairchild Semiconductor Corporation
280.	INTEGRATED CIRCUIT STRUCTURE WITH IMPROVED LDMOS DESIGN	11069900	3/1/2005	7220646	5/22/2007	Fairchild Semiconductor Corporation
281.	TERMINAL FOR MULTIPLE FUNCTIONS IN A POWER SUPPLY	11083474	3/18/2005	7339359	3/4/2008	Fairchild Semiconductor Corporation

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282.	METHOD AND DEVICE WITH DURABLE CONTACT ON SILICON CARBIDE	11083560	3/18/2005	7411218	8/12/2008	Fairchild Semiconductor Corporation
283.	TECHNIQUE TO STABILIZE THE CHROMINANCE SUBCARRIER GENERATION IN A LINE-LOCKED DIGITAL VIDEO SYSTEM	11090671	3/25/2005	RE41399	6/29/2010	Fairchild Semiconductor Corporation
284.	MOS-GATED DEVICE HAVING A BURIED GATE AND PROCESS FOR FORMING SAME	11091733	3/28/2005	7388254	6/17/2008	Fairchild Semiconductor Corporation
285.	MONOLITHICALLY-INTEGRATED BUCK CONVERTER	11108346	4/18/2005	7566931	7/28/2009	Fairchild Semiconductor Corporation
286.	METHOD FOR FORMING A TRENCH MOSFET HAVING SELF-ALIGNED FEATURES	11111305	4/20/2005	7344943	3/18/2008	Fairchild Semiconductor Corporation
287.	TRENCH GATE FETS WITH REDUCED GATE TO DRAIN CHARGE	11116106	4/26/2005	7382019	6/3/2008	Fairchild Semiconductor Corporation
288.	METHOD OF ISOLATING THE CURRENT SENSE ON POWER DEVICES WHILE MAINTAINING A CONTINUOUS STRIPE CELL	11130794	5/17/2005	7118951	10/10/2006	Fairchild Semiconductor Corporation
289.	ACCUMULATION DEVICE WITH CHARGE BALANCE STRUCTURE AND METHOD OF FORMING THE SAME	11140249	5/26/2005	7368777	5/6/2008	Fairchild Semiconductor Corporation
290.	STRUCTURE AND METHOD FOR FORMING A MINIMUM PITCH TRENCH-GATE FET WITH HEAVY BODY REGION	11140567	5/26/2005	7553740	6/30/2009	Fairchild Semiconductor Corporation
291.	STRUCTURE AND METHOD FOR FORMING LATERALLY EXTENDING DIELECTRIC LAYER IN A TRENCH-GATE FET	11166356	6/24/2005	7648877	1/19/2010	Fairchild Semiconductor Corporation
292.	FOLDED FRAME CARRIER FOR MOSFET BGA	11179348	7/12/2005	7402462	7/22/2008	Fairchild Semiconductor Corporation
293.	SUBSTRATE BASED UNMOLDED PACKAGE	11180367	7/12/2005	8541890	9/24/2013	Fairchild Semiconductor Corporation
294.	SUBSTRATE BASED UNMOLDED PACKAGE	11180405	7/12/2005	7504281	3/17/2009	Fairchild Semiconductor Corporation

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295.	CURRENT MODE CONTROL WITH FEED-FORWARD FOR POWER DEVICES	11187430	7/22/2005	7615978	11/10/2009	Fairchild Semiconductor Corporation
296.	SEMICONDUCTOR STRUCTURES FORMED ON SUBSTRATES AND METHODS OF MANUFACTURING THE SAME	11189163	7/25/2005	7635637	12/22/2009	Fairchild Semiconductor Corporation
297.	UNIFORM CONTACT	11190654	7/27/2005	7411219	8/12/2008	Fairchild Semiconductor Corporation
298.	SEMICONDUCTOR POWER DEVICE HAVING A TOP-SIDE DRAIN USING A SINKER TRENCH	11194060	7/28/2005	7352036	4/1/2008	Fairchild Semiconductor Corporation
299.	SHIELDED GATE FIELD EFFECT TRANSISTOR WITH IMPROVED INTER-POLY DIELECTRIC	11201400	8/9/2005	7385248	6/10/2008	Fairchild Semiconductor Corporation
300.	UNMOLDED PACKAGE FOR A SEMICONDUCTOR DEVICE	11202510	8/11/2005	7393718	7/1/2008	Fairchild Semiconductor Corporation
301.	POWER DEVICE PROTECTION CIRCUIT	11207486	8/19/2005	7365954	4/29/2008	Fairchild Semiconductor Corporation
302.	FLIP CHIP IN LEADED MOLDED PACKAGE AND METHOD OF MANUFACTURE THEREOF	11213182	8/25/2005	7215011	5/8/2007	Fairchild Semiconductor Corporation
303.	VRMS AND RECTIFIED CURRENT SENSE FULL-BRIDGE SYNCHRONOUS-RECTIFICATION INTEGRATED WITH PFC	11224167	9/12/2005	7269038	9/11/2007	Fairchild Semiconductor Corporation
304.	METHOD OF LINEARIZING ESD CAPACITANCE	11226020	9/14/2005	7382593	6/3/2008	Fairchild Semiconductor Corporation
305.	NON-LATCHING ENVELOPING CURVES GENERATOR	11226031	9/14/2005	7319353	1/15/2008	Fairchild Semiconductor Corporation
306.	STACKING QUAD PRE-MOLDED COMPONENT PACKAGES, SYSTEMS USING THE SAME, AND METHODS OF MAKING THE SAME	12235227	9/22/2008	7829988	11/9/2010	Fairchild Semiconductor Corporation
307.	POWER MOS DEVICE WITH IMPROVED GATE CHARGE PERFORMANCE	11236112	9/26/2005	7625793	12/1/2009	Fairchild Semiconductor Corporation

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308.	BANDGAP ENGINEERED MOS-GATED POWER TRANSISTORS	11245995	10/7/2005	7755137	7/13/2010	Fairchild Semiconductor Corporation
309.	ESD PROTECTION FOR OUTPUTS	11261812	10/28/2005	8254069	8/28/2012	Fairchild Semiconductor Corporation
310.	HIGH PERFORMANCE MULTI-CHIP FLIP CHIP PACKAGE	11283077	11/18/2005	7537958	5/26/2009	Fairchild Semiconductor Corporation
311.	THERMAL ENHANCED UPPER AND DUAL HEAT SINK EXPOSED MOLDED LEADLESS PACKAGE	11299270	12/9/2005	7468548	12/23/2008	Fairchild Semiconductor Corporation
312.	ZERO VOLTAGE SWITCHING (ZVS) IN A POWER CONVERTER	11313583	12/20/2005	7576446	8/18/2009	Fairchild Semiconductor Corporation
313.	TRENCH FIELD PLATE TERMINATION FOR POWER DEVICES	11317653	12/22/2005	7560787	7/14/2009	Fairchild Semiconductor Corporation
314.	CLIPLESS AND WIRELESS SEMICONDUCTOR DIE PACKAGE AND METHOD FOR MAKING THE SAME	11326987	1/5/2006	7371616	5/13/2008	Fairchild Semiconductor Corporation
315.	POWER DEVICE UTILIZING CHEMICAL MECHANICAL PLANARIZATION	11327657	1/5/2006	7449354	11/11/2008	Fairchild Semiconductor Corporation
316.	SELF-ALIGNED TRENCH MOSFET STRUCTURE AND METHOD OF MANUFACTURE	11339998	1/25/2006	7452777	11/18/2008	Fairchild Semiconductor Corporation
317.	DUAL OUTPUT DIFFERENTIAL LINE DRIVER USING SINGLE CURRENT	11347916	2/6/2006	7411431	8/12/2008	Fairchild Semiconductor Corporation
318.	PRIMARY SIDE REGULATED POWER SUPPLY SYSTEM WITH CONSTANT CURRENT OUTPUT	11348700	2/7/2006	7525259	4/28/2009	Fairchild Semiconductor Corporation
319.	POWER AMPLIFIER WITH CLOSE-LOOP ADAPTIVE VOLTAGE SUPPLY	11350220	2/8/2006	7427897	9/23/2008	Fairchild Semiconductor Corporation
320.	FLIP CHIP MLP WITH CONDUCTIVE INK	11364014	2/28/2006	7638861	12/29/2009	Fairchild Semiconductor Corporation
321.	PACKAGED SEMICONDUCTOR DEVICE WITH DUAL EXPOSED SURFACES AND METHOD OF MANUFACTURING	11364399	2/28/2006	7576429	8/18/2009	Fairchild Semiconductor Corporation

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322.	PERIPHERY DESIGN FOR CHARGE BALANCE POWER DEVICES	11375683	3/13/2006	7595542	9/29/2009	Fairchild Semiconductor Corporation
323.	METHOD OF FORMING SCHOTTKY DIODE WITH CHARGE BALANCE STRUCTURE	11378087	3/17/2006	7429523	9/30/2008	Fairchild Semiconductor Corporation
324.	MULTI-MODE POWER AMPLIFIER WITH REDUCED LOW POWER CURRENT CONSUMPTION	11385948	3/21/2006	7518446	4/14/2009	Fairchild Semiconductor Corporation
325.	HIGH DENSITY TRENCH FET WITH INTEGRATED SCHOTTKY DIODE AND METHOD OF MANUFACTURE	11388790	3/24/2006	7446374	11/4/2008	Fairchild Semiconductor Corporation
326.	CHARGE BALANCE TECHNIQUES FOR POWER DEVICES	11396239	3/30/2006	7592668	9/22/2009	Fairchild Semiconductor Corporation
327.	POWER DEVICE WITH IMPROVED EDGE TERMINATION	11396362	3/31/2006	7521773	4/21/2009	Fairchild Semiconductor Corporation
328.	METHOD OF FORMING TRENCH GATE FIELD EFFECT TRANSISTOR WITH RECESSED MESAS	11398467	4/4/2006	7504306	3/17/2009	Fairchild Semiconductor Corporation
329.	SEMICONDUCTOR DIE PACKAGES USING THIN DIES AND METAL SUBSTRATES	11400729	4/6/2006	7768075	8/3/2010	Fairchild Semiconductor Corporation
330.	METHOD FOR BONDING A SEMICONDUCTOR SUBSTRATE TO A METAL SUBSTRATE	11400731	4/6/2006	7635635	12/22/2009	Fairchild Semiconductor Corporation
331.	LATERAL POWER TRANSISTOR WITH SELF-BIASING ELECTRODES	11404062	4/12/2006	7473976	1/6/2009	Fairchild Semiconductor Corporation
332.	DUAL METAL STUD BUMPING FOR FLIP CHIP APPLICATIONS	11404650	4/14/2006	7501337	3/10/2009	Fairchild Semiconductor Corporation
333.	SEMICONDUCTOR DIE PACKAGE INCLUDING MULTIPLE DIES AND A COMMON NODE STRUCTURE	11410504	4/24/2006	7618896	11/17/2009	Fairchild Semiconductor Corporation
334.	CHIP MODULE FOR COMPLETE POWER TRAIN	11427906	6/30/2006	7656024	2/2/2010	Fairchild Semiconductor Corporation
335.	LOW POWER, TEMPERATURE AND FREQUENCY, TUNABLE, ON-CHIP CLOCK GENERATOR	11430706	5/9/2006	7535309	5/19/2009	Fairchild Semiconductor Corporation

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336.	HIGH-VOLTAGE DIODES FORMED IN ADVANCED POWER INTEGRATED CIRCUIT DEVICES	11434545	5/15/2006	8823051	9/2/2014	Fairchild Semiconductor Corporation
337.	TRENCH-GATE FIELD EFFECT TRANSISTORS AND METHODS OF FORMING THE SAME	11441386	5/24/2006	7504303	3/17/2009	Fairchild Semiconductor Corporation
338.	PACKAGED SEMICONDUCTOR DEVICE AND METHOD OF MANUFACTURE USING SHAPED DIE	11444595	5/31/2006	7390698	6/24/2008	Fairchild Semiconductor Corporation
339.	POWER SEMICONDUCTOR DEVICES AND METHODS OF MANUFACTURE	11445020	5/31/2006	7638841	12/29/2009	Fairchild Semiconductor Corporation
340.	POWER SEMICONDUCTOR DEVICES AND METHODS OF MANUFACTURE	11445111	5/31/2006	7652326	1/26/2010	Fairchild Semiconductor Corporation
341.	ROBUST LEADED MOLDED PACKAGES AND METHODS FOR FORMING THE SAME	11446342	6/1/2006	7560311	7/14/2009	Fairchild Semiconductor Corporation
342.	CHARGE BALANCE FIELD EFFECT TRANSISTOR	11450903	6/8/2006	7393749	7/1/2008	Fairchild Semiconductor Corporation
343.	HIGH VOLTAGE LDMOS	11454562	6/16/2006	7355224	4/8/2008	Fairchild Semiconductor Corporation
344.	LOW RESISTANCE GATE FOR POWER MOSFET APPLICATIONS AND METHOD OF MANUFACTURE	11467997	8/29/2006	7807536	10/5/2010	Fairchild Semiconductor Corporation
345.	POWER TRENCH MOSFETS HAVING SIGE/SI CHANNEL STRUCTURE	11469456	8/31/2006	7504691	3/17/2009	Fairchild Semiconductor Corporation
346.	SHIELDED GATE TRENCH FET WITH THE SHIELD AND GATE ELECTRODES BEING CONNECTED TOGETHER	11471279	6/19/2006	7319256	1/15/2008	Fairchild Semiconductor Corporation
347.	SEMICONDUCTOR DIE PACKAGE AND METHOD FOR MAKING THE SAME	11471291	6/19/2006	7772681	8/10/2010	Fairchild Semiconductor Corporation

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348.	METHOD FOR FORMING SHIELDED GATE FIELD EFFECT TRANSISTORS	11479117	6/29/2006	7476589	1/13/2009	Fairchild Semiconductor Corporation
349.	LATERAL TRENCH GATE FET WITH DIRECT SOURCE-DRAIN CURRENT PATH	11479149	6/29/2006	7804150	9/28/2010	Fairchild Semiconductor Corporation
350.	HIGH-EFFICIENCY POWER CONVERTER SYSTEM	11480004	6/30/2006	7518895	4/14/2009	Fairchild Semiconductor Corporation
351.	VARYING MESA DIMENSIONS IN HIGH CELL DENSITY TRENCH MOSFET	11482676	7/7/2006	7667265	2/23/2010	Fairchild Semiconductor Corporation
352.	SCHOTTKY DIODE STRUCTURE TO REDUCE CAPACITANCE AND SWITCHING LOSSES AND METHOD OF MAKING SAME	11483925	7/10/2006	7468314	12/23/2008	Fairchild Semiconductor Corporation
353.	METHOD OF FORMING A TRENCH STRUCTURE HAVING ONE OR MORE DIODES EMBEDDED THEREIN ADJACENT A PN JUNCTION	11487015	7/14/2006	7582519	9/1/2009	Fairchild Semiconductor Corporation
354.	POWER CONVERTER ABLE TO RAPIDLY RESPOND TO FAST CHANGES IN LOAD CURRENT	11493125	7/26/2006	7615982	11/10/2009	Fairchild Semiconductor Corporation
355.	METHOD OF MANUFACTURING A TRENCH TRANSISTOR HAVING A HEAVY BODY REGION	11503506	8/10/2006	7736978	6/15/2010	Fairchild Semiconductor Corporation
356.	POWER CONVERTER WITH HYSTERETIC CONTROL	11506299	8/18/2006	7457140	11/25/2008	Fairchild Semiconductor Corporation
357.	SEMICONDUCTOR DIE PACKAGE INCLUDING STACKED DICE AND HEAT SINK STRUCTURES	11512941	8/29/2006	7564124	7/21/2009	Fairchild Semiconductor Corporation
358.	HIGH VOLTAGE INTEGRATED CIRCUIT DRIVER WITH A HIGH VOLTAGE PMOS BOOTSTRAP DIODE EMULATOR	11517629	9/8/2006	7538583	5/26/2009	Fairchild Semiconductor Corporation
359.	LINEARIZATION TECHNIQUE FOR CURRENT MODE FILTERS	11534716	9/25/2006	7414461	8/19/2008	Fairchild Semiconductor Corporation
360.	TRENCH GATE FET WITH SELF-ALIGNED FEATURES	11536584	9/28/2006	7544571	6/9/2009	Fairchild Semiconductor Corporation

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361.	ASSYMETRIC HETERO-DOPED HIGH-VOLTAGE MOSFET (AH <sup>2</sup> MOS)	11551887	10/23/2006	7649225	1/19/2010	Fairchild Semiconductor Corporation
362.	TRENCH FET WITH IMPROVED BODY TO GATE ALIGNMENT	11551992	10/23/2006	7416948	8/26/2008	Fairchild Semiconductor Corporation
363.	CONTACT METHOD FOR THIN SILICON CARBIDE EPITAXIAL LAYER AND SEMICONDUCTOR DEVICES FORMED BY THOSE METHODS	11556967	11/6/2006	7638820	12/29/2009	Fairchild Semiconductor Corporation
364.	INTEGRATED LATCH-UP FREE INSULATED GATE BIPOLAR TRANSISTOR	11564948	11/30/2006	7531888	5/12/2009	Fairchild Semiconductor Corporation
365.	CONFIGURING A POWER CONVERTER TO OPERATE WITH OR WITHOUT BURST MODE FUNCTIONALITY	11592372	11/3/2006	7529105	5/5/2009	Fairchild Semiconductor Corporation
366.	CURRENT SENSING IN A POWER CONVERTER	11606449	11/30/2006	7683593	3/23/2010	Fairchild Semiconductor Corporation
367.	TIME-BASED SYNCHRONOUS RECTIFICATION IN A POWER CONVERTER	11606462	11/30/2006	7675281	3/9/2010	Fairchild Semiconductor Corporation
368.	AUDIO FILTER USING A DIODE CONNECTED MOSFET	11609009	12/11/2006	7800435	9/21/2010	Fairchild Semiconductor Corporation
369.	PN JUNCTION AND MOS CAPACITOR HYBRID RESURF TRANSISTOR	11619671	1/4/2007	7795671	9/14/2010	Fairchild Semiconductor Corporation
370.	STRUCTURE AND METHOD FOR IMPROVING SHIELDED GATE FIELD EFFECT TRANSISTORS	11620002	1/4/2007	7768064	8/3/2010	Fairchild Semiconductor Corporation
371.	FLIP CHIP MLP WITH FOLDED HEAT SINK	11625100	1/19/2007	7812437	10/12/2010	Fairchild Semiconductor Corporation
372.	PRE-MOLDED CLIP STRUCTURE	11626503	1/24/2007	7768105	8/3/2010	Fairchild Semiconductor Corporation
373.	ENHANCED RESURF HVPMOS DEVICE WITH STACKED HETERO-DOPING RIM AND GRADUAL DRIFT REGION	11669233	1/31/2007	7678656	3/16/2010	Fairchild Semiconductor Corporation



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374.	SEMICONDUCTOR DIE PACKAGE INCLUDING LEADFRAME WITH DIE ATTACH PAD WITH FOLDED EDGE	11671065	2/5/2007	7821116	10/26/2010	Fairchild Semiconductor Corporation
375.	MULTI-CHIP MODULE FOR BATTERY POWER CONTROL	11672728	2/8/2007	7868432	1/11/2011	Fairchild Semiconductor Corporation
376.	METHOD FOR REDUCING INSERTION LOSS AND PROVIDING POWER DOWN PROTECTION FOR MOSFET SWITCHES	11673259	2/9/2007	7554382	6/30/2009	Fairchild Semiconductor Corporation
377.	SCALABLE POWER FIELD EFFECT TRANSISTOR WITH IMPROVED HEAVY BODY STRUCTURE AND METHOD OF MANUFACTURE	11673487	2/9/2007	7564096	7/21/2009	Fairchild Semiconductor Corporation
378.	HIGH DIRECTIVITY ULTRA-COMPACT COUPLER	11675564	2/15/2007	7564325	7/21/2009	Fairchild Semiconductor Corporation
379.	INTEGRATED CIRCUIT STRUCTURE WITH IMPROVED LDMOS DESIGN	11675759	2/16/2007	7608512	10/27/2009	Fairchild Semiconductor Corporation
380.	MULTI-MODE POWER AMPLIFIER WITH LOW GAIN VARIATION OVER TEMPERATURE	11683128	3/7/2007	7554407	6/30/2009	Fairchild Semiconductor Corporation
381.	SHORT CHANNEL LV, MV, AND HV CMOS DEVICES	11685364	3/13/2007	7602017	10/13/2009	Fairchild Semiconductor Corporation
382.	DISTRIBUTED CLASS G TYPE AMPLIFIER SWITCHING METHOD	11688822	3/20/2007	7408414	8/5/2008	Fairchild Semiconductor Corporation
383.	VOLUME-BASED ADAPTIVE BIASING	11688829	3/20/2007	8081777	12/20/2011	Fairchild Semiconductor Corporation
384.	HIGH EFFICIENCY CONVERTER PROVIDING SWITCHING AMPLIFIER BIAS	11688830	3/20/2007	8081785	12/20/2011	Fairchild Semiconductor Corporation
385.	CLASS L AMPLIFIER	11688833	3/20/2007	7498880	3/3/2009	Fairchild Semiconductor Corporation
386.	EFFICIENT VOLTAGE RAIL GENERATION	11688835	3/20/2007	7522433	4/21/2009	Fairchild Semiconductor Corporation

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387.	ALTERNATIVE FLIP CHIP IN LEADED MOLDED PACKAGE DESIGN AND METHOD FOR MANUFACTURE	11689971	3/22/2007	7586178	9/8/2009	Fairchild Semiconductor Corporation
388.	OVER-VOLTAGE TOLERANT PASS-GATE	11690575	3/23/2007	7514983	4/7/2009	Fairchild Semiconductor Corporation
389.	FLIP CHIP IN LEADED MOLDED PACKAGE AND METHOD OF MANUFACTURE THEREOF	11693141	3/29/2007	7582956	9/1/2009	Fairchild Semiconductor Corporation
390.	METHOD AND STRUCTURE FOR MAKING A TOP-SIDE CONTACT TO A SUBSTRATE	11694704	3/30/2007	7482645	1/27/2009	Fairchild Semiconductor Corporation
391.	OVER-CURRENT PROTECTION FOR A POWER CONVERTER	11707685	2/16/2007	8018694	9/13/2011	Fairchild Semiconductor Corporation
392.	CONTROL INTERFACE AND PROTOCOL	11724786	3/15/2007	7667534	2/23/2010	Fairchild Semiconductor Corporation
393.	SOFT START CIRCUIT WITH SLEW RATE CONTROLLER FOR VOLTAGE REGULATORS	11726939	3/23/2007	7782038	8/24/2010	Fairchild Semiconductor Corporation
394.	OPTICAL COUPLER PACKAGE	11735257	4/13/2007	7659531	2/9/2010	Fairchild Semiconductor Corporation
395.	ETCHED LEADFRAME STRUCTURE INCLUDING RECESSES	11737630	4/19/2007	7683463	3/23/2010	Fairchild Semiconductor Corporation
396.	DUAL SIDE COOLING INTEGRATED POWER DEVICE MODULE AND METHODS OF MANUFACTURE	11740475	4/26/2007	7777315	8/17/2010	Fairchild Semiconductor Corporation
397.	SYSTEM INCLUDING A HIGH DIRECTIVITY ULTRA-COMPACT COUPLER	11747053	5/10/2007	7414493	8/19/2008	Fairchild Semiconductor Corporation
398.	STRUCTURE AND METHOD FOR FORMING A PLANAR SCHOTTKY CONTACT	11747847	5/11/2007	7732842	6/8/2010	Fairchild Semiconductor Corporation
399.	BIDIRECTIONAL SIGNAL INTERFACE AND RELATED SYSTEM AND METHOD	11800384	5/4/2007	7786759	8/31/2010	Fairchild Semiconductor Corporation

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400.	POWER CONVERTER USING A SINGLE TAPPED TRANSFORMER FOR MULTIPLE RANGES OF INPUT VOLTAGE	11801642	5/10/2007	7729135	6/1/2010	Fairchild Semiconductor Corporation
401.	HIGH VOLTAGE SEMICONDUCTOR DEVICE WITH LATERAL SERIES CAPACITIVE STRUCTURE	11801819	5/10/2007	8080848	12/20/2011	Fairchild Semiconductor Corporation
402.	DELIVERING OPTIMAL CHARGE BURSTS IN A VOLTAGE REGULATOR	11818285	6/14/2007	8237421	8/7/2012	Fairchild Semiconductor Corporation
403.	DYNAMIC SELECTION OF OSCILLATION SIGNAL FREQUENCY FOR POWER CONVERTER	11827756	7/13/2007	7826815	11/2/2010	Fairchild Semiconductor Corporation
404.	WIDE BANDGAP DEVICE IN PARALLEL WITH A DEVICE THAT HAS A LOWER AVALANCHE BREAKDOWN VOLTAGE AND A HIGHER FORWARD VOLTAGE DROP THAN THE WIDE BANDGAP DEVICE	11828283	7/25/2007	7586156	9/8/2009	Fairchild Semiconductor Corporation
405.	DUAL SIDE COOLING INTEGRATED POWER DEVICE PACKAGE AND MODULE WITH A CLIP ATTACHED TO A LEADFRAME IN THE PACKAGE AND THE MODULE AND METHODS OF MANUFACTURE	11829793	7/27/2007	7663211	2/16/2010	Fairchild Semiconductor Corporation
406.	WAVE DIVISION MULTIPLEXING REPLACEMENT OF SERIALIZATION	11830353	7/30/2007	7995922	8/9/2011	Fairchild Semiconductor Corporation
407.	MULTI-MODE POWER AMPLIFIER WITH HIGH EFFICIENCY UNDER BACKOFF OPERATION	11841162	8/20/2007	7479827	1/20/2009	Fairchild Semiconductor Corporation
408.	CLOCKLESS SERIALIZATION USING DELAY CIRCUITS	11841237	8/20/2007	7468685	12/23/2008	Fairchild Semiconductor Corporation
409.	PACKAGING SYSTEM FOR SEMICONDUCTOR DEVICES	11844914	8/24/2007	7579680	8/25/2009	Fairchild Semiconductor Corporation
410.	SELF LOCKING AND ALIGNING CLIP STRUCTURE FOR SEMICONDUCTOR DIE PACKAGE	11846063	8/28/2007	7902657	3/8/2011	Fairchild Semiconductor Corporation

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411.	SEMICONDUCTOR DIE PACKAGE INCLUDING HEAT SINKS	11847001	8/29/2007	7737548	6/15/2010	Fairchild Semiconductor Corporation
412.	METHOD AND STRUCTURE FOR SHIELDED GATE TRENCH FET	11848124	8/30/2007	8497549	7/30/2013	Fairchild Semiconductor Corporation
413.	DEVICES, METHODS, AND SYSTEMS WITH MOS-GATED TRENCH-TO-TRENCH LATERAL CURRENT FLOW	11852959	9/10/2007	7705397	4/27/2010	Fairchild Semiconductor Corporation
414.	STACKED SYNCHRONOUS BUCK CONVERTER	11857199	9/18/2007	7750445	7/6/2010	Fairchild Semiconductor Corporation
415.	STACKED DUAL-DIE PACKAGES, METHODS OF MAKING, AND SYSTEMS INCORPORATING SAID PACKAGES	11861967	9/26/2007	7768123	8/3/2010	Fairchild Semiconductor Corporation
416.	FIELD EFFECT TRANSISTOR WITH TRENCH FILLED WITH INSULATING MATERIAL AND STRIPS OF SEMI-INSULATING MATERIAL ALONG TRENCH SIDEWALLS	11862396	9/27/2007	7977744	7/12/2011	Fairchild Semiconductor Corporation
417.	TAPERED VOLTAGE POLYSILICON DIODE ELECTROSTATIC DISCHARGE CIRCUIT FOR POWER MOSFETS AND ICS	11865191	10/1/2007	7768034	8/3/2010	Fairchild Semiconductor Corporation
418.	LOW VOLTAGE HIGH DENSITY TRENCH-GATED POWER DEVICE WITH UNIFORMLY DOPED CHANNEL AND ITS EDGE TERMINATION	11866072	10/2/2007	7633102	12/15/2009	Fairchild Semiconductor Corporation
419.	WIRELESS SEMICONDUCTOR PACKAGE FOR EFFICIENT HEAT DISSIPATION	11869307	10/9/2007	7586179	9/8/2009	Fairchild Semiconductor Corporation
420.	PINCHED POLY FUSE	11869862	10/10/2007	7619295	11/17/2009	Fairchild Semiconductor Corporation
421.	METHOD FOR CONNECTING A DIE ATTACH PAD TO A LEAD FRAME AND PRODUCT THEREOF	11873725	10/17/2007	7800207	9/21/2010	Fairchild Semiconductor Corporation
422.	POWER CONVERTER WITH CURRENT VECTOR CONTROLLED DEAD TIME	11891976	8/14/2007	8385092	2/26/2013	Fairchild Semiconductor Corporation

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423.	LOW POWER SERDES ARCHITECTURE USING SERIAL I/O BURST GATING	11909123	9/19/2007	7760115	7/20/2010	Fairchild Semiconductor Corporation
424.	HYBRID-MODE LDMOS	11927805	10/30/2007	8063443	11/22/2011	Fairchild Semiconductor Corporation
425.	DIE SCALE STRAIN GAUGE	11933650	11/1/2007	7934430	5/3/2011	Fairchild Semiconductor Corporation
426.	HIGH BOND LINE THICKNESS FOR SEMICONDUCTOR DEVICES	11935915	11/6/2007	7825501	11/2/2010	Fairchild Semiconductor Corporation
427.	DIFFERENTIAL AMPLIFIER WITH INDEPENDENT OUTPUT COMMON MODE ADJUSTMENT	11937852	11/9/2007	7538614	5/26/2009	Fairchild Semiconductor Corporation
428.	METHOD FOR FORMING A SHIELDED GATE TRENCH FET WITH THE SHIELD AND GATE ELECTRODES BEING CONNECTED TOGETHER	11938583	11/12/2007	7473603	1/6/2009	Fairchild Semiconductor Corporation
429.	METHOD FOR FORMING INTER-POLY DIELECTRIC IN SHIELDED GATE FIELD EFFECT TRANSISTOR	11952481	12/7/2007	7598144	10/6/2009	Fairchild Semiconductor Corporation
430.	PACKAGE WITH MULTIPLE DIES	11959800	12/19/2007	7781872	8/24/2010	Fairchild Semiconductor Corporation
431.	THIN, THERMALLY ENHANCED FLIP CHIP IN A LEADED MOLDED PACKAGE	11961589	12/20/2007	7821124	10/26/2010	Fairchild Semiconductor Corporation
432.	METHODS AND SYSTEMS FOR CONTROL OF SWITCHES IN POWER REGULATORS/POWER AMPLIFIERS	11962571	12/21/2007	7880454	2/1/2011	Fairchild Semiconductor Corporation and L&L Engineering LLC
433.	POWER SEMICONDUCTOR DEVICES WITH TRENCHED SHIELDED SPLIT GATE TRANSISTOR AND METHODS OF MANUFACTURE	11963668	12/21/2007	8013391	9/6/2011	Fairchild Semiconductor Corporation
434.	SHIELDED GATE TRENCH FET WITH MULTIPLE CHANNELS	11964283	12/26/2007	7772668	8/10/2010	Fairchild Semiconductor Corporation

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435.	POWER SEMICONDUCTOR DEVICES WITH SHIELD AND GATE CONTACTS AND METHODS OF MANUFACTURE	11964419	12/26/2007	8013387	9/6/2011	Fairchild Semiconductor Corporation
436.	HIGH-POWER SEMICONDUCTOR DIE PACKAGES WITH INTEGRATED HEAT-SINK CAPABILITY AND METHODS OF MANUFACTURING THE SAME	11968602	1/2/2008	7800219	9/21/2010	Fairchild Semiconductor Corporation
437.	SEMICONDUCTOR PACKAGE WITH AN EMBEDDED PRINTED CIRCUIT BOARD AND STACKED DIE	11970087	1/7/2008	8030743	10/4/2011	Fairchild Semiconductor Corporation
438.	PACKAGE WITH OVERLAPPING DEVICES	11971512	1/9/2008	7791084	9/7/2010	Fairchild Semiconductor Corporation
439.	SEMICONDUCTOR DIE PACKAGES HAVING OVERLAPPING DICE, SYSTEM USING THE SAME, AND METHODS OF MAKING THE SAME	11971524	1/9/2008	7825502	11/2/2010	Fairchild Semiconductor Corporation
440.	DIE PACKAGE INCLUDING SUBSTRATE WITH MOLDED DEVICE	11971556	1/9/2008	8106406	1/31/2012	Fairchild Semiconductor Corporation
441.	INTEGRATED LOW LEAKAGE DIODE	11971596	1/9/2008	7842968	11/30/2010	Fairchild Semiconductor Corporation
442.	FLEX CLIP CONNECTOR FOR SEMICONDUCTOR DEVICE	11972418	10/10/2008	7626249	12/1/2009	Fairchild Semiconductor Corporation
443.	DELAY STABILIZATION FOR SKEW TOLERANCE	11972997	1/11/2008	7756659	7/13/2010	Fairchild Semiconductor Corporation
444.	LOW-INPUT-VOLTAGE CHARGE PUMP	11985457	11/15/2007	7595683	9/29/2009	Fairchild Semiconductor Corporation
445.	SOFT-START SYSTEM AND METHOD FOR POWER CONVERTER	11986579	11/21/2007	7719243	5/18/2010	Fairchild Semiconductor Corporation
446.	PROCESS-INVARIANT LOW-QUIESCENT TEMPERATURE DETECTION CIRCUIT	12004279	12/19/2007	7837384	11/23/2010	Fairchild Semiconductor Corporation
447.	SYNCHRONOUS BUCK POWER CONVERTER WITH FREE-RUNNING OSCILLATOR	12012057	1/29/2008	7872883	1/18/2011	Fairchild Semiconductor Corporation

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448.	METHOD FOR ENHANCING FIELD OXIDE	12017742	1/22/2008	7824999	11/2/2010	Fairchild Semiconductor Corporation
449.	TRENCHED SHIELD GATE POWER SEMICONDUCTOR DEVICES AND METHODS OF MANUFACTURE	12018166	1/22/2008	7982265	7/19/2011	Fairchild Semiconductor Corporation
450.	SEMICONDUCTOR PACKAGE WITH STACKED DICE FOR A BUCK CONVERTER	12020855	1/28/2008	8063472	11/22/2011	Fairchild Semiconductor Corporation
451.	MULTIPHASE SYNCHRONOUS BUCK CONVERTER	12020892	1/28/2008	7696612	4/13/2010	Fairchild Semiconductor Corporation
452.	METHOD AND APPARATUS FOR BONDED SUBSTRATES	12025514	2/4/2008	7846813	12/7/2010	Fairchild Semiconductor Corporation
453.	FOLDED LEADFRAME MULTIPLE DIE PACKAGE	12025798	2/5/2008	8198710	6/12/2012	Fairchild Semiconductor Corporation
454.	EMBEDDED DIE PACKAGE ON PACKAGE (POP) WITH PRE-MOLDED LEADFRAME	12026742	2/6/2008	8063474	11/22/2011	Fairchild Semiconductor Corporation
455.	3D SMART POWER MODULE	12028051	2/8/2008	7808101	10/5/2010	Fairchild Semiconductor Corporation
456.	POWER SEMICONDUCTOR DEVICES HAVING TERMINATION STRUCTURES AND METHODS OF MANUFACTURE	12032123	2/15/2008	7855415	12/21/2010	Fairchild Semiconductor Corporation
457.	METHODS OF MAKING POWER SEMICONDUCTOR DEVICES WITH THICK BOTTOM OXIDE LAYER	12032599	2/15/2008	8143124	3/27/2012	Fairchild Semiconductor Corporation
458.	HIGH VOLTAGE LDMOS	12035758	2/22/2008	8349717	1/8/2013	Fairchild Semiconductor Corporation
459.	THERMALLY ENHANCED MOLDED LEADLESS PACKAGE	12037428	2/26/2008	8120169	2/21/2012	Fairchild Semiconductor Corporation
460.	POWER TRANSISTOR WITH TRENCH SINKER FOR CONTACTING THE BACKSIDE	12038184	2/27/2008	7732876	6/8/2010	Fairchild Semiconductor Corporation

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461.	METHODS OF FORMING INTER-POLY DIELECTRIC (IPD) LAYERS IN POWER SEMICONDUCTOR DEVICES	12041546	3/3/2008	8143123	3/27/2012	Fairchild Semiconductor Corporation
462.	SEMICONDUCTOR DIE PACKAGE INCLUDING EXPOSED CONNECTIONS	12044314	3/7/2008	7972906	7/5/2011	Fairchild Semiconductor Corporation
463.	SEMICONDUCTOR DIE PACKAGE INCLUDING IC DRIVER AND BRIDGE	12046734	3/12/2008	7915721	3/29/2011	Fairchild Semiconductor Corporation
464.	SEMICONDUCTOR DIE PACKAGE INCLUDING MULTIPLE SEMICONDUCTOR DICE	12046939	3/12/2008	8018054	9/13/2011	Fairchild Semiconductor Corporation
465.	SEMICONDUCTOR DIE PACKAGE INCLUDING EMBEDDED FLIP CHIP	12047028	3/12/2008	7768108	8/3/2010	Fairchild Semiconductor Corporation
466.	LD MOS DEVICES WITH IMPROVED ARCHITECTURES	12049788	3/17/2008	7977715	7/12/2011	Fairchild Semiconductor Corporation
467.	POWER DEVICE WITH TRENCHES HAVING WIDER UPPER PORTION THAN LOWER PORTION	12049996	3/17/2008	7595524	9/29/2009	Fairchild Semiconductor Corporation
468.	METHOD OF FORMING TRENCH GATE FETS WITH REDUCED GATE TO DRAIN CHARGE	12052135	3/20/2008	7485532	2/3/2009	Fairchild Semiconductor Corporation
469.	METHOD OF MAKING AND DESIGNING LEAD FRAMES FOR SEMICONDUCTOR PACKAGES	12052871	3/21/2008	8110447	2/7/2012	Fairchild Semiconductor Corporation
470.	SIP SUBSTRATE	12053707	3/24/2008	7893548	2/22/2011	Fairchild Semiconductor Corporation
471.	COMPENSATION NETWORK FOR ERROR AMPLIFIER OF A LOW DROPOUT REGULATOR	12072259	2/25/2008	7956589	6/7/2011	Fairchild Semiconductor Corporation
472.	SAMPLE AND HOLD TECHNIQUE FOR GENERATING AN AVERAGE OF SENSED INDUCTOR CURRENT IN VOLTAGE REGULATORS	12077463	3/19/2008	7710084	5/4/2010	Fairchild Semiconductor Corporation
473.	REDUCING SOFT START DELAY AND PROVIDING SOFT RECOVERY IN POWER SYSTEM CONTROLLERS	12077475	3/19/2008	7723972	5/25/2010	Fairchild Semiconductor Corporation



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474.	OPTIMIZING OPERATION OF DC-TO-AC POWER CONVERTER	12080274	4/2/2008	7839666	11/23/2010	Fairchild Semiconductor Corporation
475.	UN-ASSISTED, LOW-TRIGGER AND HIGH-HOLDING VOLTAGE SCR	12098546	4/7/2008	7719026	5/18/2010	Fairchild Semiconductor Corporation
476.	SEMICONDUCTOR DIE PACKAGES WITH MULTIPLE INTEGRATED SUBSTRATES, SYSTEMS USING THE SAME, AND METHODS USING THE SAME	12102793	4/14/2008	7952204	5/31/2011	Fairchild Semiconductor Corporation
477.	THREE-DIMENSIONAL SEMICONDUCTOR DEVICE STRUCTURES AND METHODS	12103701	4/15/2008	8101996	1/24/2012	Fairchild Semiconductor Corporation
478.	DICE BY GRIND FOR BACK SURFACE METALLIZED DIES	12103878	4/16/2008	7655539	2/2/2010	Fairchild Semiconductor Corporation
479.	METHOD AND DEVICE WITH DURABLE CONTACT ON SILICON CARBIDE	12106646	4/21/2008	7618884	11/17/2009	Fairchild Semiconductor Corporation
480.	INTEGRATED LOW LEAKAGE SCHOTTKY DIODE	12107995	4/23/2008	7745845	6/29/2010	Fairchild Semiconductor Corporation
481.	NON-LINEAR CONTROL TECHNIQUES FOR IMPROVING TRANSIENT RESPONSE TO LOAD CURRENT STEP CHANGE	12108435	4/23/2008	7863875	1/4/2011	Fairchild Semiconductor Corporation
482.	STRUCTURE AND METHOD FOR SEMICONDUCTOR POWER DEVICES	12109293	4/24/2008	7910995	3/22/2011	Fairchild Semiconductor Corporation
483.	TECHNIQUE FOR CONTROLLING TRENCH PROFILE IN SEMICONDUCTOR STRUCTURES	12109302	4/24/2008	8815744	8/26/2014	Fairchild Semiconductor Corporation
484.	METHOD AND CIRCUIT FOR CHANGING MODES WITHOUT DEDICATED CONTROL PIN	12112152	4/30/2008	8107575	1/31/2012	Fairchild Semiconductor Corporation
485.	METHOD AND CIRCUIT FOR CAPTURING KEYPAD DATA SERIALIZING/DESERIALIZING AND REGENERATING THE KEYPAD INTERFACE	12112176	4/30/2008	8321598	11/27/2012	Fairchild Semiconductor Corporation
486.	STRUCTURE AND METHOD FOR FORMING ACCUMULATION-MODE FIELD EFFECT TRANSISTOR WITH IMPROVED CURRENT CAPABILITY	12114575	5/2/2008	7936008	5/3/2011	Fairchild Semiconductor Corporation

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487.	MULTI-CHIP DISCRETE DEVICES IN SEMICONDUCTOR PACKAGES	12115049	5/5/2008	7843048	11/30/2010	Fairchild Semiconductor Corporation
488.	METHODS AND DESIGNS FOR LOCALIZED WAFER THINNING	12115254	5/5/2008	8158506	4/17/2012	Fairchild Semiconductor Corporation
489.	SUBSTRATE BASED UNMOLDED PACKAGE	12118222	5/9/2008	7682877	3/23/2010	Fairchild Semiconductor Corporation
490.	METHOD AND CIRCUIT FOR INTERLEAVING, SERIALIZING AND DESERIALIZING CAMERA AND KEYPAD DATA	12112136	4/30/2008	8170070	5/1/2012	Fairchild Semiconductor Corporation
491.	METHODS FOR REDUCING CROSS TALK IN OPTICAL SENSORS	12123350	5/19/2008	7777172	8/17/2010	Fairchild Semiconductor Corporation
492.	VOLTAGE REGULATOR WITH CURRENT-MODE DUAL-EDGE PULSE WIDTH MODULATION AND NON-LINEAR CONTROL	12124953	5/21/2008	7764054	7/27/2010	Fairchild Semiconductor Corporation
493.	SHIELDED GATE FIELD EFFECT TRANSISTOR	12125242	5/22/2008	7514322	4/7/2009	Fairchild Semiconductor Corporation
494.	LOW ON RESISTANCE CMOS TRANSISTOR FOR INTEGRATED CIRCUIT APPLICATIONS	12126108	5/23/2008	7763939	7/27/2010	Fairchild Semiconductor Corporation
495.	DIFFERENTIAL HYSTERETIC DC-DC CONVERTER	12127670	5/27/2008	8476886	7/2/2013	Fairchild Semiconductor Corporation
496.	DISTRIBUTED CLASS G TYPE AMPLIFIER SWITCHING METHOD	12128092	5/28/2008	7619480	11/17/2009	Fairchild Semiconductor Corporation
497.	FOUR MOSFET FULL BRIDGE MODULE	12128130	5/28/2008	8138585	3/20/2012	Fairchild Semiconductor Corporation
498.	HOT SWAP CONTROLLER WITH ZERO LOADED CHARGE PUMP	12132267	6/3/2008	7683693	3/23/2010	Fairchild Semiconductor Corporation
499.	TECHNIQUE FOR COMBINING IN-RUSH CURRENT LIMITING AND SHORT CIRCUIT CURRENT LIMITING	12132286	6/3/2008	7760479	7/20/2010	Fairchild Semiconductor Corporation

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500.	RUGGED SEMICONDUCTOR DEVICE ARCHITECTURE	12136140	6/10/2008	8124981	2/28/2012	Fairchild Semiconductor Corporation
501.	METHOD AND APPARATUS TO IMPROVE THE RELIABILITY OF THE BREAKDOWN VOLTAGE IN HIGH VOLTAGE DEVICES	12142270	6/19/2008	7897471	3/1/2011	Fairchild Semiconductor Corporation
502.	STRUCTURE AND METHOD FOR FORMING A THICK BOTTOM DIELECTRIC (TBD) FOR TRENCH-GATE DEVICES	12143510	6/20/2008	7807576	10/5/2010	Fairchild Semiconductor Corporation
503.	PIN SUBSTRATE AND PACKAGE	12144289	6/23/2008	7745244	6/29/2010	Fairchild Semiconductor Corporation
504.	A SHIELDED GATE TRENCH FET WITH AN INTER-ELECTRODE DIELECTRIC HAVING A NITRIDE LAYER THEREIN	12146791	6/26/2008	7872305	1/18/2011	Fairchild Semiconductor Corporation
505.	STRUCTURE AND METHOD OF FORMING A TOPSIDE CONTACT TO A BACKSIDE TERMINAL OF A SEMICONDUCTOR DEVICE	12168348	7/7/2008	7884390	2/8/2011	Fairchild Semiconductor Corporation
506.	A SHIELDED GATE TRENCH FET WITH AN INTER-ELECTRODE DIELECTRIC HAVING A LOW-K DIELECTRIC THEREIN	12170328	7/9/2008	7936009	5/3/2011	Fairchild Semiconductor Corporation
507.	THERMAL ENHANCED UPPER AND DUAL HEAT SINK EXPOSED MOLDED LEADLESS PACKAGE	12170523	7/10/2008	7968982	6/28/2011	Fairchild Semiconductor Corporation
508.	GROUND FAULT CIRCUIT INTERRUPTER WITH SELF TEST	12171924	7/11/2008	8085516	12/27/2011	Fairchild Semiconductor Corporation
509.	SEMICONDUCTOR DEVICE WITH (110)-ORIENTED SILICON	12174030	7/16/2008	8101500	1/24/2012	Fairchild Semiconductor Corporation
510.	METHOD AND STRUCTURE FOR DIVIDING A SUBSTRATE INTO INDIVIDUAL DEVICES	12174863	7/17/2008	7951688	5/31/2011	Fairchild Semiconductor Corporation
511.	EMBEDDED DIE PACKAGE AND PROCESS FLOW USING A PRE-MOLDED CARRIER	12175171	7/17/2008	7863096	1/4/2011	Fairchild Semiconductor Corporation
512.	SEMICONDUCTOR SYSTEM-IN-PACKAGE AND METHOD FOR MAKING THE SAME	12178043	7/23/2008	7960211	6/14/2011	Fairchild Semiconductor Corporation

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513.	START-UP CIRCUITRY AND METHOD FOR POWER CONVERTER	12182915	7/30/2008	8129959	3/6/2012	Fairchild Semiconductor Corporation
514.	RECTIFIER WITH PN CLAMP REGIONS UNDER TRENCHES	12186743	8/6/2008	7750412	7/6/2010	Fairchild Semiconductor Corporation
515.	METHOD AND SYSTEM THAT DETERMINES THE VALUE OF A RESISTOR IN LINEAR AND NON-LINEAR RESISTOR SETS	12196552	8/22/2008	8179151	5/15/2012	Fairchild Semiconductor Corporation
516.	MICRO-LAYERED LEAD FRAME SEMICONDUCTOR PACKAGES	12199065	8/27/2008	7888781	2/15/2011	Fairchild Semiconductor Corporation
517.	CLASS L AMPLIFIER	12200794	8/28/2008	7649415	1/19/2010	Fairchild Semiconductor Corporation
518.	MOLDED ULTRA THIN SEMICONDUCTOR DIE PACKAGES, SYSTEMS USING THE SAME, AND METHODS OF MAKING THE SAME	12200819	8/28/2008	7855439	12/21/2010	Fairchild Semiconductor Corporation
519.	POWER SUPPLY INSENSITIVE VOLTAGE LEVEL TRANSLATOR	12205178	9/5/2008	7782116	8/24/2010	Fairchild Semiconductor Corporation
520.	(110)-ORIENTED P-CHANNEL TRENCH MOSFET HAVING HIGH-K GATE DIELECTRIC	12207417	9/9/2008	8039877	10/18/2011	Fairchild Semiconductor Corporation
521.	HIGH DENSITY TRENCH FIELD EFFECT TRANSISTOR	12211654	9/16/2008	8278702	10/2/2012	Fairchild Semiconductor Corporation
522.	STRUCTURES FOR REDUCING DOPANT OUT-DIFFUSION FROM IMPLANT REGIONS IN POWER DEVICES	12212489	9/17/2008	8253194	8/28/2012	Fairchild Semiconductor Corporation
523.	DIRECT CURRENT (DC) TO ALTERNATING CURRENT (AC) GENERATION	12217244	7/2/2008	8023295	9/20/2011	Fairchild Semiconductor Corporation
524.	SYSTEM AND METHOD FOR AC VOLTAGE REGULATION	12229543	8/25/2008	7834597	11/16/2010	Fairchild Semiconductor Corporation
525.	MEASURING AND REGENERATING A VARIABLE PULSE WIDTH	12233034	9/18/2008	7733248	6/8/2010	Fairchild Semiconductor Corporation

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526.	SUPERJUNCTION STRUCTURES FOR POWER DEVICES	12234549	9/19/2008	8928077	1/6/2015	Fairchild Semiconductor Corporation
527.	POWER TRENCH GATE FET WITH ACTIVE GATE TRENCHES THAT ARE CONTIGUOUS WITH GATE RUNNER TRENCH (AS AMENDED)	12241481	9/30/2008	7772642	8/10/2010	Fairchild Semiconductor Corporation
528.	HIGH DENSITY FET WITH INTEGRATED SCHOTTKY	12242633	9/30/2008	8686493	4/1/2014	Fairchild Semiconductor Corporation
529.	CIRCUITS AND METHODS FOR IMPROVING TRANSIENT RESPONSE OF HYSTERETIC DC-DC CONVERTERS	12245231	10/3/2008	8138739	3/20/2012	Fairchild Semiconductor Corporation
530.	POWER MOSFET HAVING A STRAINED CHANNEL IN A SEMICONDUCTOR HETEROSTRUCTURE ON METAL SUBSTRATE	12248874	10/9/2008	8237195	8/7/2012	Fairchild Semiconductor Corporation
531.	METHOD OF FORMING HIGH DENSITY TRENCH FET WITH INTEGRATED SCHOTTKY DIODE	12249889	10/10/2008	7713822	5/11/2010	Fairchild Semiconductor Corporation
532.	CONTINUOUS CONDUCTION MODE POWER FACTOR CORRECTION CIRCUIT WITH REDUCED SENSING REQUIREMENTS	12250771	10/14/2008	8279630	10/2/2012	Fairchild Semiconductor Corporation
533.	GATE DRIVER WITH SHORT-CIRCUIT PROTECTION	12253014	10/16/2008	8503146	8/6/2013	Fairchild Semiconductor Corporation
534.	HIGH EFFICIENCY AUDIO AMPLIFIER	12257287	10/23/2008	7733178	6/8/2010	Fairchild Semiconductor Corporation
535.	MODULATED SUPPLY SPREAD SPECTRUM	12260708	10/29/2008	7893779	2/22/2011	Fairchild Semiconductor Corporation
536.	PRE-MOLDED, CLIP-BONDED MULTI-DIE SEMICONDUCTOR PACKAGE	12262486	10/31/2008	7898067	3/1/2011	Fairchild Semiconductor Corporation
537.	WAFER LEVEL BUCK CONVERTER	12262570	10/31/2008	8102029	1/24/2012	Fairchild Semiconductor Corporation
538.	SEMICONDUCTOR DIE PACKAGE INCLUDING LEAD WITH END PORTION	12266217	11/6/2008	8188587	5/29/2012	Fairchild Semiconductor Corporation

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539.	CONTACT METHOD FOR THIN SILICON CARBIDE EPITAXIAL LAYER AND SEMICONDUCTOR DEVICES FORMED BY THOSE METHODS	12266739	11/7/2008	RE42423	6/7/2011	Fairchild Semiconductor Corporation
540.	SHIELDED GATE TRENCH FET WITH THE SHIELD AND GATE ELECTRODES CONNECTED TOGETHER IN NON-ACTIVE REGION	12268616	11/11/2008	7859047	12/28/2010	Fairchild Semiconductor Corporation
541.	FLEXIBLE AND STACKABLE SEMICONDUCTOR DIE PACKAGES HAVING THIN PATTERNED CONDUCTIVE LAYERS	12271369	11/14/2008	8314499	11/20/2012	Fairchild Semiconductor Corporation
542.	LEADFRAME-BASED CHIP SCALE SEMICONDUCTOR PACKAGES	12277068	11/24/2008	7944031	5/17/2011	Fairchild Semiconductor Corporation
543.	ADAPTIVE RAIL AMPLIFIER (ARA) TECHNOLOGY	12326795	12/2/2008	7750732	7/6/2010	Fairchild Semiconductor Corporation
544.	METHOD FOR FORMING TRENCHES WITH WIDE UPPER PORTION AND NARROW LOWER PORTION	12327425	12/3/2008	8003522	8/23/2011	Fairchild Semiconductor Corporation
545.	METHOD OF MANUFACTURING A TRENCH TRANSISTOR HAVING A HEAVY BODY REGION	12329509	12/5/2008	7696571	4/13/2010	Fairchild Semiconductor Corporation
546.	STRUCTURE AND METHOD FOR FORMING HYBRID SUBSTRATE	12332326	12/10/2008	8039401	10/18/2011	Fairchild Semiconductor Corporation
547.	STRUCTURE AND METHOD FOR FORMING POWER DEVICES WITH HIGH ASPECT RATIO CONTACT OPENINGS	12333597	12/12/2008	7932556	4/26/2011	Fairchild Semiconductor Corporation
548.	SEMICONDUCTOR DIE PACKAGE INCLUDING LOW STRESS CONFIGURATION	12334127	12/12/2008	8106501	1/31/2012	Fairchild Semiconductor Corporation
549.	SEMICONDUCTOR DIE PACKAGE WITH CLIP INTERCONNECTION	12334249	12/12/2008	8193618	6/5/2012	Fairchild Semiconductor Corporation
550.	SEMICONDUCTOR SYSTEM-IN-A-PACKAGE CONTAINING MICRO-LAYERED LEAD FRAME	12334267	12/12/2008	7923847	4/12/2011	Fairchild Semiconductor Corporation

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551.	SEMICONDUCTOR DICE WITH BACKSIDE TRENCHES FILLED WITH ELASTIC MATERIAL FOR IMPROVED ATTACHMENT, PACKAGES USING THE SAME, AND METHODS OF MAKING THE SAME	12334331	12/12/2008	7960800	6/14/2011	Fairchild Semiconductor Corporation
552.	STRUCTURE AND METHOD FOR FORMING POWER DEVICES WITH CARBON-CONTAINING REGION	12334393	12/12/2008	7994573	8/9/2011	Fairchild Semiconductor Corporation
553.	CABLE VOLTAGE DROP COMPENSATION FOR BATTERY CHARGERS	12337324	12/17/2008	8143845	3/27/2012	Fairchild Semiconductor Corporation
554.	POWER QUAD FLAT NO-LEAD SEMICONDUCTOR DIE PACKAGES WITH ISOLATED HEAT SINK FOR HIGH-VOLTAGE, HIGH-POWER APPLICATIONS, SYSTEMS USING THE SAME, AND METHODS OF MAKING THE SAME	12337513	12/17/2008	7816784	10/19/2010	Fairchild Semiconductor Corporation
555.	CONSTANT SWITCH VGS CIRCUIT FOR MINIMIZING RFLATNESS AND IMPROVING AUDIO PERFORMANCE	12337709	12/18/2008	7782117	8/24/2010	Fairchild Semiconductor Corporation
556.	LATERAL MOSFET WITH SUBSTRATE DRAIN CONNECTION	12339215	12/19/2008	8039897	10/18/2011	Fairchild Semiconductor Corporation
557.	STRUCTURE AND METHOD FOR FORMING FIELD EFFECT TRANSISTOR WITH LOW RESISTANCE CHANNEL REGION	12330273	12/8/2008	7825465	11/2/2010	Fairchild Semiconductor Corporation
558.	LATERAL POWER DIODE WITH SELF-BIASING ELECTRODE	12344063	12/24/2008	8125029	2/28/2012	Fairchild Semiconductor Corporation
559.	METHOD FOR FORMING SHIELDED GATE FIELD EFFECT TRANSISTOR USING SPACERS	12344859	12/29/2008	7935577	5/3/2011	Fairchild Semiconductor Corporation
560.	METHOD FOR FORMING TRENCH GATE FIELD EFFECT TRANSISTOR WITH RECESSED MESAS USING SPACERS	12346626	12/30/2008	8084327	12/27/2011	Fairchild Semiconductor Corporation
561.	INTEGRATED TRANSISTOR MODULE AND METHOD OF FABRICATING SAME	12349140	1/6/2009	7842555	11/30/2010	Fairchild Semiconductor Corporation

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562.	LATERAL DRAIN MOSFET WITH IMPROVED CLAMPING VOLTAGE CONTROL	12352057	1/12/2009	7781835	8/24/2010	Fairchild Semiconductor Corporation
563.	HIGH ASPECT RATIO TRENCH STRUCTURES WITH VOID-FREE FILL MATERIAL	12353909	1/14/2009	7956411	6/7/2011	Fairchild Semiconductor Corporation
564.	MULTI-CHIP SEMICONDUCTOR PACKAGE	12356354	1/20/2009	7846773	12/7/2010	Fairchild Semiconductor Corporation
565.	SUPER SOURCE FOLLOWER OUTPUT IMPEDANCE ENHANCEMENT	12356566	1/21/2009	7944303	5/17/2011	Fairchild Semiconductor Corporation
566.	DUAL METAL STUD BUMPING FOR FLIP CHIP APPLICATIONS	12357981	1/22/2009	7932171	4/26/2011	Fairchild Semiconductor Corporation
567.	SUBSTRATE BASED UNMOLDED PACKAGE	12358654	1/23/2009	7790513	9/7/2010	Fairchild Semiconductor Corporation
568.	STRUCTURE FOR MAKING A TOP-SIDE CONTACT TO A SUBSTRATE	12359670	1/26/2009	7989884	8/2/2011	Fairchild Semiconductor Corporation
569.	SYNCHRONIZING FREQUENCY AND PHASE OF MULTIPLE VARIABLE FREQUENCY POWER CONVERTERS	12361419	1/28/2009	7933132	4/26/2011	Fairchild Semiconductor Corporation
570.	HIGH SPEED, LOW POWER CONSUMPTION, ISOLATED ANALOG CMOS UNIT	12365228	2/4/2009	7800179	9/21/2010	Fairchild Semiconductor Corporation
571.	STACKED MICRO OPTOCOUPERS AND METHODS OF MAKING THE SAME	12365793	2/4/2009	7973393	7/5/2011	Fairchild Semiconductor Corporation
572.	FREQUENCY MODE SELECTION DISCRIMINATOR AND LOW PASS FILTER	12365987	2/5/2009	7932751	4/26/2011	Fairchild Semiconductor Corporation
573.	SEMICONDUCTOR DIE PACKAGE AND METHOD FOR MAKING THE SAME	12366039	2/5/2009	8222718	7/17/2012	Fairchild Semiconductor Corporation
574.	SEMICONDUCTOR DEVICES WITH STABLE AND CONTROLLED AVALANCHE CHARACTERISTICS AND METHODS OF FABRICATING THE SAME	12368210	2/9/2009	8227855	7/24/2012	Fairchild Semiconductor Corporation



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575.	METHOD AND APPARATUS FOR DETECTING AND RECOVERING FROM EXTERNAL ELECTRICAL DISTURBANCES	12370974	2/13/2009	7911753	3/22/2011	Fairchild Semiconductor Corporation
576.	IMPROVED TRENCH-SHIELDED SEMICONDUCTOR DEVICE	12389335	2/19/2009	8148749	4/3/2012	Fairchild Semiconductor Corporation
577.	MICROMODULES INCLUDING INTEGRATED THIN FILM INDUCTORS	12392971	2/25/2009	7838964	11/23/2010	Fairchild Semiconductor Corporation
578.	QUASI-RESURF LDMOS	12395817	3/2/2009	7999315	8/16/2011	Fairchild Semiconductor Corporation
579.	LOW-INPUT-VOLTAGE CHARGE PUMP	12400659	3/9/2009	8076968	12/13/2011	Fairchild Semiconductor Corporation
580.	MIPI ANALOG SWITCH FOR AUTOMATIC SELECTION OF MULTIPLE INPUTS BASED ON CLOCK VOLTAGES	12402794	3/12/2009	8207759	6/26/2012	Fairchild Semiconductor Corporation
581.	POWER LATCH	12403490	3/13/2009	7893566	2/22/2011	Fairchild Semiconductor Corporation
582.	A FLMP BUCK CONVERTER WITH A MOLDED CAPACITOR AND A METHOD OF THE SAME	12404627	3/16/2009	8023279	9/20/2011	Fairchild Semiconductor Corporation
583.	MULTIPHASE SYNCHRONOUS BUCK CONVERTER	12405525	3/17/2009	7821114	10/26/2010	Fairchild Semiconductor Corporation
584.	TRENCH-BASED POWER SEMICONDUCTOR DEVICES WITH INCREASED BREAKDOWN VOLTAGE CHARACTERISTICS	12408552	3/20/2009	8304829	11/6/2012	Fairchild Semiconductor Corporation
585.	MULTICHIP DISCRETE PACKAGE	12409620	3/24/2009	7977776	7/12/2011	Fairchild Semiconductor Corporation
586.	LOW SPEED, LOAD INDEPENDENT, SLEW RATE CONTROLLED OUTPUT BUFFER WITH NO DC POWER CONSUMPTION	12410848	3/25/2009	7924066	4/12/2011	Fairchild Semiconductor Corporation
587.	INTEGRATED LATCH-UP FREE INSULATED GATE BIPOLAR TRANSISTOR	12411820	3/26/2009	8053858	11/8/2011	Fairchild Semiconductor Corporation

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588.	STRUCTURE AND METHOD FOR FORMING A SALICIDE ON THE GATE ELECTRODE OF A TRENCH-GATE FET	12412803	3/27/2009	8143125	3/27/2012	Fairchild Semiconductor Corporation
589.	TRENCH-BASED POWER SEMICONDUCTOR DEVICES WITH INCREASED BREAKDOWN VOLTAGE CHARACTERISTICS	12417586	4/2/2009	8174067	5/8/2012	Fairchild Semiconductor Corporation
590.	METHOD OF FORMING A SHIELDED GATE FIELD EFFECT TRANSISTOR	12418949	4/6/2009	7625799	12/1/2009	Fairchild Semiconductor Corporation
591.	HIGH TEMPERATURE OPERATING PACKAGE AND CIRCUIT DESIGN	12419696	4/7/2009	8030764	10/4/2011	Fairchild Semiconductor Corporation
592.	LOW ON RESISTANCE CMOS "WAVE" TRANSISTOR FOR INTEGRATED CIRCUIT APPLICATIONS	12420435	4/8/2009	8080847	12/20/2011	Fairchild Semiconductor Corporation
593.	LOW-QUIESCENT-CURRENT BUFFER	12420608	4/8/2009	7868666	1/11/2011	Fairchild Semiconductor Corporation
594.	TRENCH-BASED POWER SEMICONDUCTOR DEVICES WITH INCREASED BREAKDOWN VOLTAGE CHARACTERISTICS	12420711	4/8/2009	8193581	6/5/2012	Fairchild Semiconductor Corporation
595.	TRENCH-BASED POWER SEMICONDUCTOR DEVICES WITH INCREASED BREAKDOWN VOLTAGE CHARACTERISTICS	12421448	4/9/2009	8564024	10/22/2013	Fairchild Semiconductor Corporation
596.	POWER DEVICE EDGE TERMINATION HAVING A RESISTOR WITH ONE END BIASED TO SOURCE VOLTAGE	12425326	4/16/2009	7863708	1/4/2011	Fairchild Semiconductor Corporation
597.	LDMOS WITH SELF ALIGNED VERTICAL LDD BACKSIDE DRAIN	12425349	4/16/2009	7936007	5/3/2011	Fairchild Semiconductor Corporation
598.	AMPLIFIER CURRENT DRIVE REVERSAL	12425790	4/17/2009	7821338	10/26/2010	Fairchild Semiconductor Corporation
599.	MULTI-LEVEL LATERAL FLOATING COUPLED CAPACITOR TRANSISTOR STRUCTURES	12426004	4/17/2009	8193565	6/5/2012	Fairchild Semiconductor Corporation
600.	POLYSILICON DRIFT FUSE	12429510	4/24/2009	8072049	12/6/2011	Fairchild Semiconductor Corporation

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601.	SILICON CARBIDE SEMICONDUCTOR DEVICE	12450708	10/8/2009	8829533	9/9/2014	Fairchild Semiconductor Corporation
602.	ROBUST LEADED MOLDED PACKAGES AND METHODS FOR FORMING THE SAME	12479442	6/5/2009	7906837	3/15/2011	Fairchild Semiconductor Corporation
603.	MONOLITHIC LOW IMPEDANCE DUAL GATE CURRENT SENSE MOSFET	12479613	6/5/2009	8183892	5/22/2012	Fairchild Semiconductor Corporation
604.	METHOD OF FORMING SHIELDED GATE FET WITH SELF-ALIGNED FEATURES	12480031	6/8/2009	7935561	5/3/2011	Fairchild Semiconductor Corporation
605.	3D CHANNEL ARCHITECTURE FOR SEMICONDUCTOR DEVICES	12480065	6/8/2009	8072027	12/6/2011	Fairchild Semiconductor Corporation
606.	TERMINATION STRUCTURE FOR POWER DEVICES	12480176	6/8/2009	8143679	3/27/2012	Fairchild Semiconductor Corporation
607.	SELF-ALIGNED COMPLEMENTARY LDMOS	12481108	6/9/2009	7750401	7/6/2010	Fairchild Semiconductor Corporation
608.	REDUCED PROCESS SENSITIVITY OF ELECTRODE-SEMICONDUCTOR RECTIFIERS	12484096	6/12/2009	8049276	11/1/2011	Fairchild Semiconductor Corporation
609.	SCALABLE POWER FIELD EFFECT TRANSISTOR WITH IMPROVED HEAVY BODY STRUCTURE AND METHOD OF MANUFACTURE	12485290	6/16/2009	7754567	7/13/2010	Fairchild Semiconductor Corporation
610.	CURRENT MODE CONTROL FOR RESONANT CONVERTER CIRCUITS	12488851	6/22/2009	8085559	12/27/2011	Fairchild Semiconductor Corporation
611.	POWER DEVICE WITH MONOLITHICALLY INTEGRATED RC SNUBBER	12492101	6/25/2009	8829624	9/9/2014	Fairchild Semiconductor Corporation
612.	TRENCH-GATE LDMOS STRUCTURES	12499778	7/8/2009	8198677	6/12/2012	Fairchild Semiconductor Corporation
613.	PACKAGED SEMICONDUCTOR DEVICE WITH DUAL EXPOSED SURFACES AND METHOD OF MANUFACTURING	12499893	7/9/2009	7816178	10/19/2010	Fairchild Semiconductor Corporation
614.	PHASE MANAGEMENT FOR INTERLEAVED POWER FACTOR CORRECTION	12506098	7/20/2009	8098505	1/17/2012	Fairchild Semiconductor Corporation

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615.	SHIELD CONTACTS IN A SHIELDED GATE MOSFET	12509379	7/24/2009	7952141	5/31/2011	Fairchild Semiconductor Corporation
616.	METHOD AND CIRCUIT FOR RECYCLING TRIMMED DEVICES	12511496	7/29/2009	8143993	3/27/2012	Fairchild Semiconductor Corporation
617.	MODULAR DIE AND MASK FOR SEMICONDUCTOR PROCESSING	12535093	8/4/2009	8222090	7/17/2012	Fairchild Semiconductor Corporation
618.	IGNITION SYSTEM OPEN SECONDARY DETECTION	12535597	8/4/2009	8387598	3/5/2013	Fairchild Semiconductor Corporation
619.	WIDE BANDGAP DEVICE IN PARALLEL WITH A DEVICE THAT HAS A LOWER AVALANCHE BREAKDOWN VOLTAGE AND A HIGHER FORWARD VOLTAGE DROP THAN THE WIDE BANDGAP DEVICE	12536618	8/6/2009	7859057	12/28/2010	Fairchild Semiconductor Corporation
620.	OPTIMIZATION OF PWM DC OPERATING POINT OF VOLTAGE REGULATORS WITH WIDE OPERATING RANGE	12548202	8/26/2009	8278903	10/2/2012	Fairchild Semiconductor Corporation
621.	SHORT CHANNEL LV, MV, AND HV CMOS DEVICES	12552384	9/2/2009	7968400	6/28/2011	Fairchild Semiconductor Corporation
622.	INTEGRATED COMPLEMENTARY LOW VOLTAGE RF-LDMOS	12553464	9/3/2009	7888735	2/15/2011	Fairchild Semiconductor Corporation
623.	FOLDED LANDS AND VIAS FOR MULTICHIP SEMICONDUCTOR PACKAGES	12560007	9/15/2009	8072051	12/6/2011	Fairchild Semiconductor Corporation
624.	SEMICONDUCTOR DIE CONTAINING LATERAL EDGE SHAPES AND TEXTURES	12561988	9/17/2009	8072044	12/6/2011	Fairchild Semiconductor Corporation
625.	CHARGE BALANCE TECHNIQUES FOR POWER DEVICES	12562025	9/17/2009	7936013	5/3/2011	Fairchild Semiconductor Corporation
626.	POWER DEVICE WITH TRENCHES HAVING WIDER UPPER PORTION THAN LOWER PORTION	12567578	9/25/2009	7799636	9/21/2010	Fairchild Semiconductor Corporation
627.	SEMICONDUCTOR DIE PACKAGE INCLUDING MULTIPLE DIES AND A COMMON NODE STRUCTURE	12575641	10/8/2009	8212361	7/3/2012	Fairchild Semiconductor Corporation

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628.	METHOD FOR FORMING LATERALLY EXTENDING DIELECTRIC LAYER IN A TRENCH-GATE FET	12576120	10/8/2009	7855115	12/21/2010	Fairchild Semiconductor Corporation
629.	PINCHED POLY FUSE	12576290	10/9/2009	7759767	7/20/2010	Fairchild Semiconductor Corporation
630.	ALUMINUM BUMP BONDING FOR FINE ALUMINUM WIRE	12580560	10/16/2009	8138081	3/20/2012	Fairchild Semiconductor Corporation
631.	METHOD AND STRUCTURE FOR FORMING A SHIELDED GATE FIELD EFFECT TRANSISTOR	12582487	10/20/2009	7767524	8/3/2010	Fairchild Semiconductor Corporation
632.	CAMERA SHUTTER CONTROL THROUGH A USB PORT OR AUDIO/VIDEO PORT	12606562	10/27/2009	8230126	7/24/2012	Fairchild Semiconductor Corporation
633.	METHOD OF DETECTING ACCESSORIES ON AN AUDIO JACK	12606582	10/27/2009	8244927	8/14/2012	Fairchild Semiconductor Corporation
634.	FLIP CHIP MLP WITH CONDUCTIVE INK	12616943	11/12/2009	9147627	9/29/2015	Fairchild Semiconductor Corporation
635.	OPTOCOUPLER DEVICES	12617142	11/12/2009	8410463	4/2/2013	Fairchild Semiconductor Corporation
636.	SEMICONDUCTOR DEVICES AND METHODS FOR MAKING THE SAME	12629232	12/2/2009	8129778	3/6/2012	Fairchild Semiconductor Corporation
637.	STEPPED-SOURCE LDMOS ARCHITECTURE	12629362	12/2/2009	8362557	1/29/2013	Fairchild Semiconductor Corporation
638.	POWER SEMICONDUCTOR DEVICES AND METHODS OF MANUFACTURE	12636011	12/11/2009	8350317	1/8/2013	Fairchild Semiconductor Corporation
639.	CHIP MODULE FOR COMPLETE POWER TRAIN	12637496	12/14/2009	7875498	1/25/2011	Fairchild Semiconductor Corporation
640.	SELECTIVELY ACTIVATED THREE-STATE CHARGE PUMP	12644646	12/22/2009	8400122	3/19/2013	Fairchild Semiconductor Corporation
641.	FAST RECOVERY VOLTAGE REGULATOR	12644669	12/22/2009	8502587	8/6/2013	Fairchild Semiconductor Corporation

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642.	REDUCED CURRENT CHARGE PUMP	12644697	12/22/2009	8134403	3/13/2012	Fairchild Semiconductor Corporation
643.	INTEGRATED CIRCUIT PACKAGE WITH EMBEDDED COMPONENTS	12645075	12/22/2009	8304888	11/6/2012	Fairchild Semiconductor Corporation
644.	WAFER LEVEL STACK DIE PACKAGE	12683058	1/6/2010	8115260	2/14/2012	Fairchild Semiconductor Corporation
645.	METHOD OF MANUFACTURE AND STRUCTURE FOR A TRENCH TRANSISTOR HAVING A HEAVY BODY REGION	12685592	1/11/2010	8476133	7/2/2013	Fairchild Semiconductor Corporation
646.	OPTOELECTRONIC CABLE ASSEMBLY HAVING MOVEABLE OPTICAL MODULE	12688835	1/15/2010	8292516	10/23/2012	Fairchild Semiconductor Corporation
647.	TRENCH-GATE FIELD EFFECT TRANSISTOR WITH CHANNEL ENHANCEMENT REGION AND METHODS OF FORMING THE SAME	12698746	2/2/2010	7923776	4/12/2011	Fairchild Semiconductor Corporation
648.	ETCHED LEADFRAME STRUCTURE	12699600	2/3/2010	7923301	4/12/2011	Fairchild Semiconductor Corporation
649.	STACKABLE SEMICONDUCTOR PACKAGE WITH EMBEDDED DIE IN PRE-MOLDED CARRIER FRAME	12701773	2/8/2010	8314480	11/20/2012	Fairchild Semiconductor Corporation
650.	MULTIPLE DETECTION CIRCUIT FOR ACCESSORY JACKS	12705183	2/12/2010	8193834	6/5/2012	Fairchild Semiconductor Corporation
651.	SEMICONDUCTOR DEVICES CONTAINING TRENCH MOSFETS WITH SUPERJUNCTIONS	12707323	2/17/2010	N/A	N/A	Fairchild Semiconductor Corporation
652.	CONTROL PIN POWERED ANALOG SWITCH	12713032	2/25/2010	8269552	9/18/2012	Fairchild Semiconductor Corporation
653.	FULLY FEATURED CONTROL PIN POWERED ANALOG SWITCH	12713039	2/25/2010	8310301	11/13/2012	Fairchild Semiconductor Corporation

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654.	PERIPHERAL DEVICE HOST CHARGING	12714054	2/26/2010	8736227	5/27/2014	Fairchild Semiconductor Corporation
655.	THERMALLY ENHANCED THIN SEMICONDUCTOR PACKAGE	12717012	3/3/2010	8193622	6/5/2012	Fairchild Semiconductor Corporation
656.	MULTIPHASE SYNCHRONOUS BUCK CONVERTER	12723128	3/12/2010	7902646	3/8/2011	Fairchild Semiconductor Corporation
657.	METHOD OF MANUFACTURING A TRENCH TRANSISTOR HAVING A HEAVY BODY REGION	12755966	4/7/2010	8044463	10/25/2011	Fairchild Semiconductor Corporation
658.	CHARGE PUMP SWITCH POWER DOWN PROTECTION	12760286	4/14/2010	8279568	10/2/2012	Fairchild Semiconductor Corporation
659.	DIE BACKSIDE STANDOFF STRUCTURES FOR SEMICONDUCTOR DEVICES	12773552	5/4/2010	8314473	11/20/2012	Fairchild Semiconductor Corporation
660.	STRUCTURE WITH PN CLAMP REGIONS UNDER TRENCHES	12779844	5/13/2010	8198687	6/12/2012	Fairchild Semiconductor Corporation
661.	SELF-ALIGNED COMPLEMENTARY LDMOS	12787677	5/26/2010	7875517	1/25/2011	Fairchild Semiconductor Corporation
662.	INTEGRATED LOW LEAKAGE SCHOTTKY DIODE	12788626	5/27/2010	7910410	3/22/2011	Fairchild Semiconductor Corporation
663.	AUDIO AMPLIFIER PERFORMANCE WHILE MAINTAINING USB COMPLIANCE AND POWER DOWN PROTECTION	12790122	5/28/2010	8699717	4/15/2014	Fairchild Semiconductor Corporation
664.	SEMICONDUCTOR POWER DEVICE HAVING A TOP-SIDE DRAIN USING A SINKER TRENCH	12794936	6/7/2010	8026558	9/27/2011	Fairchild Semiconductor Corporation
665.	PLANAR TMBS RECTIFIER	12795368	6/7/2010	8044461	10/25/2011	Fairchild Semiconductor Corporation
666.	OVER-CURRENT PROTECTION CIRCUIT WITH FOLDBACK CAPABILITY	12814775	6/14/2010	8213147	7/3/2012	Fairchild Semiconductor Corporation
667.	TRENCH MOS BARRIER SCHOTTKY RECTIFIER WITH A PLANAR SURFACE USING CMP TECHNIQUES	12819023	6/18/2010	8432000	4/30/2013	Fairchild Semiconductor Corporation

No.	Title	App No.	App. Date	Reg. No.	Reg. Date	Owner
668.	TRENCH MOS BARRIER SCHOTTKY RECTIFIER WITH A PLANAR SURFACE USING CMP TECHNIQUES	12819109	6/18/2010	8319290	11/27/2012	Fairchild Semiconductor Corporation
669.	METHOD OF FORMING A FET HAVING ULTRA-LOW ON-RESISTANCE AND LOW GATE CHARGE	12821590	6/23/2010	8101484	1/24/2012	Fairchild Semiconductor Corporation
670.	FIELD EFFECT TRANSISTOR WITH SELF-ALIGNED SOURCE AND HEAVY BODY REGIONS AND METHOD OF MANUFACTURING SAME	12822008	6/23/2010	7955920	6/7/2011	Fairchild Semiconductor Corporation
671.	SHIELDED LEVEL SHIFT TRANSISTOR	12822471	6/24/2010	8618627	12/31/2013	Fairchild Semiconductor Corporation
672.	PRE-MOLDED CLIP STRUCTURE	12822675	6/24/2010	7838340	11/23/2010	Fairchild Semiconductor Corporation
673.	PRE-MOLDED CLIP STRUCTURE	12822932	6/24/2010	8008759	8/30/2011	Fairchild Semiconductor Corporation
674.	SEMICONDUCTOR DIE PACKAGE AND METHOD FOR MAKING THE SAME	12823411	6/25/2010	8183088	5/22/2012	Fairchild Semiconductor Corporation
675.	SEMICONDUCTOR DIE PACKAGES USING THIN DIES AND METAL SUBSTRATES	12823805	6/25/2010	8329508	12/11/2012	Fairchild Semiconductor Corporation
676.	BUCK-BOOST REGULATOR WITH CONVERTER BYPASS FUNCTION	12830074	7/2/2010	8508208	8/13/2013	Fairchild Semiconductor Corporation
677.	METHOD OF FORMING ACTIVE AND GATE RUNNER TRENCHES	12830770	7/6/2010	7902071	3/8/2011	Fairchild Semiconductor Corporation
678.	DIE PACKAGE INCLUDING MULTIPLE DIES AND LEAD ORIENTATION	12833781	7/9/2010	8426950	4/23/2013	Fairchild Semiconductor Corporation
679.	NO POP SWITCH	12834472	7/12/2010	9054692	6/9/2015	Fairchild Semiconductor Corporation
680.	DUAL SIDE COOLING INTEGRATED POWER DEVICE MODULE AND METHODS OF MANUFACTURE	12836664	7/15/2010	8198134	6/12/2012	Fairchild Semiconductor Corporation



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681.	PACKAGE WITH MULTIPLE DIES	12838022	7/16/2010	8278149	10/2/2012	Fairchild Semiconductor Corporation
682.	PN JUNCTION AND MOS CAPACITOR HYBRID RESURF TRANSISTOR	12845919	7/29/2010	8076722	12/13/2011	Fairchild Semiconductor Corporation
683.	SYNCHRONOUS BUCK CONVERTER USING SHIELDED GATE FIELD EFFECT TRANSISTORS	12845999	7/29/2010	8193570	6/5/2012	Fairchild Semiconductor Corporation
684.	LATERAL DRAIN MOSFET WITH IMPROVED CLAMPING VOLTAGE CONTROL	12849535	8/3/2010	7998819	8/16/2011	Fairchild Semiconductor Corporation
685.	MICROMACHINED INERTIAL SENSOR DEVICES	12849742	8/3/2010	8739626	6/3/2014	Fairchild Semiconductor Corporation
686.	MICROMACHINED DEVICES AND FABRICATING THE SAME	12849787	8/3/2010	8710599	4/29/2014	Fairchild Semiconductor Corporation
687.	RESURF DEVICE INCLUDING INCREASED BREAKDOWN VOLTAGE	12854391	8/11/2010	8269277	9/18/2010	Fairchild Semiconductor Corporation
688.	METHOD FOR CONNECTING A DIE ATTACH PAD TO A LEAD FRAME AND PRODUCT THEREOF	12855904	8/13/2010	8110492	2/7/2012	Fairchild Semiconductor Corporation
689.	HIGH SPEED, LOW POWER CONSUMPTION, ISOLATED ANALOG CMOS UNIT	12862163	8/24/2010	8269279	9/18/2012	Fairchild Semiconductor Corporation
690.	METHOD AND APPARATUS FOR BRIDGELESS POWER FACTOR CORRECTION	12869416	8/26/2010	8482942	7/9/2013	Fairchild Semiconductor Corporation
691.	STRUCTURE RELATED TO A THICK BOTTOM DIELECTRIC (TBD) FOR TRENCH-GATE DEVICES	12870600	8/27/2010	8669623	3/11/2014	Fairchild Semiconductor Corporation
692.	INTEGRATED CIRCUIT SINGLE ENDED-TO-DIFFERENTIAL AMPLIFIER	12874800	9/2/2010	8248164	8/21/2012	Fairchild Semiconductor Corporation
693.	HIGH-IMPEDANCE NETWORK	12874832	9/2/2010	8536924	9/17/2013	Fairchild Semiconductor Corporation
694.	POWER SEMICONDUCTOR DEVICES HAVING TERMINATION STRUCTURES	12878429	9/9/2010	8786045	7/22/2014	Fairchild Semiconductor Corporation

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695.	NO POP SWITCH	12878779	9/9/2010	8625818	1/7/2014	Fairchild Semiconductor Corporation
696.	FLIP CHIP MLP WITH FOLDED HEAT SINK	12882353	9/15/2010	8119457	2/21/2012	Fairchild Semiconductor Corporation
697.	HIGH-POWER SEMICONDUCTOR DIE PACKAGES WITH INTEGRATED HEAT-SINK CAPABILITY AND METHODS OF MANUFACTURING THE SAME	12883044	9/15/2010	8193043	6/5/2012	Fairchild Semiconductor Corporation
698.	POWER DEVICE WITH TRENCHES HAVING WIDER UPPER PORTION THAN LOWER PORTION	12884072	9/16/2010	8034682	10/11/2011	Fairchild Semiconductor Corporation
699.	SAMPLED CHARGE CONTROL FOR RESONANT CONVERTER	12884874	9/17/2010	8576583	11/5/2013	Fairchild Semiconductor Corporation
700.	3D SMART POWER MODULE	12886614	9/21/2010	8088645	1/3/2012	Fairchild Semiconductor Corporation
701.	HIGH BOND LINE THICKNESS FOR SEMICONDUCTOR DEVICES	12887821	9/22/2010	9147665	9/29/2015	Fairchild Semiconductor Corporation
702.	METHOD OF FORMING LATERAL TRENCH GATE FET WITH DIRECT SOURCE-DRAIN CURRENT PATH	12890947	9/27/2010	8097510	1/17/2012	Fairchild Semiconductor Corporation
703.	METHOD OF FORMING LOW RESISTANCE GATE FOR POWER MOSFET APPLICATIONS	12891147	9/27/2010	8592277	11/26/2013	Fairchild Semiconductor Corporation
704.	STRUCTURE AND METHOD FOR FORMING FIELD EFFECT TRANSISTOR WITH LOW RESISTANCE CHANNEL REGION	12891616	9/27/2010	7943993	5/17/2011	Fairchild Semiconductor Corporation
705.	DYNAMIC SELECTION OF OSCILLATION SIGNAL FREQUENCY FOR POWER CONVERTER	12892817	9/28/2010	8571509	10/29/2013	Fairchild Semiconductor Corporation
706.	METHOD OF FORMING A DUAL-TRENCH FIELD EFFECT TRANSISTOR	12893997	9/29/2010	8829641	9/9/2014	Fairchild Semiconductor Corporation
707.	HIGH IMPEDANCE BIAS NETWORK	12899296	10/6/2010	8253471	8/28/2012	Fairchild Semiconductor Corporation

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708.	EDGE RATE CONTROL	12899810	10/7/2010	8638148	1/28/2014	Fairchild Semiconductor Corporation
709.	AUTOMATIC GAIN CONTROL	12899829	10/7/2010	8432225	4/30/2013	Fairchild Semiconductor Corporation
710.	LOW POWER POWER-ON-RESET (POR) CIRCUIT	12904702	10/14/2010	8344767	1/1/2013	Fairchild Semiconductor Corporation
711.	MULTIPLE SWITCHES AND A DELAY CIRCUIT	12904742	10/14/2010	8665002	3/4/2014	Fairchild Semiconductor Corporation
712.	METHOD OF MAKING MICROMODULES INCLUDING INTEGRATED THIN FILM INDUCTORS	12906955	10/18/2010	8110474	2/7/2012	Fairchild Semiconductor Corporation
713.	STRUCTURE AND METHOD FOR FORMING Laterally EXTENDING DIELECTRIC LAYER IN A TRENCH-GATE FET	12907805	10/19/2010	8278704	10/2/2012	Fairchild Semiconductor Corporation
714.	ACTIVE NOISE CANCELLATION	12913897	10/28/2010	8750531	6/10/2014	Fairchild Semiconductor Corporation
715.	METHOD AND APPARATUS FOR BONDED SUBSTRATES	12916045	10/29/2010	8474506	7/2/2013	Fairchild Semiconductor Corporation
716.	INTEGRATED LOW LEAKAGE DIODE	12917648	11/2/2010	8283696	10/9/2012	Fairchild Semiconductor Corporation
717.	MOLDED ULTRA THIN SEMICONDUCTOR DIE PACKAGES, SYSTEMS USING THE SAME, AND METHODS OF MAKING THE SAME	12940319	11/5/2010	8168473	5/1/2012	Fairchild Semiconductor Corporation
718.	HIGH-VOLTAGE PACKAGED DEVICE	12944192	11/11/2010	8946881	2/3/2015	Fairchild Semiconductor Corporation
719.	PASS TRANSISTOR CAPACITANCE AND JITTER REDUCTION	12945327	11/12/2010	8525575	9/3/2013	Fairchild Semiconductor Corporation
720.	SWITCH-MODE REGULATOR INCLUDING HYSTERETIC CONTROL	12946458	11/15/2010	8618779	12/31/2013	Fairchild Semiconductor Corporation

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721.	MICROELECTROMECHANICAL SYSTEMS MICROPHONE PACKAGING SYSTEMS	12947543	11/16/2010	8421168	4/16/2013	Fairchild Semiconductor Corporation
722.	ISOLATED STACKED DIE SEMICONDUCTOR PACKAGES	12949587	11/18/2010	8053883	11/8/2011	Fairchild Semiconductor Corporation
723.	OPTIMIZING OPERATION OF DC-TO-AC POWER CONVERTER	12952045	11/22/2010	8320140	11/27/2012	Fairchild Semiconductor Corporation
724.	STABLE ON-RESISTANCE SWITCH CIRCUIT	12953162	11/23/2010	8330523	12/11/2012	Fairchild Semiconductor Corporation
725.	METHOD FOR FORMING A SHIELDED GATE TRENCH FET	12958689	12/2/2010	8129241	3/6/2012	Fairchild Semiconductor Corporation
726.	MULTI-CHIP MODULE FOR BATTERY POWER CONTROL	12964691	12/9/2010	8003447	8/23/2011	Fairchild Semiconductor Corporation
727.	SELF LOCKING AND ALIGNING CLIP STRUCTURE FOR SEMICONDUCTOR DIE PACKAGE	12964933	12/10/2010	8067273	11/29/2011	Fairchild Semiconductor Corporation
728.	FUSE DRIVER CIRCUITS	12965611	12/10/2010	9224566	12/29/2015	Fairchild Semiconductor Corporation
729.	WIDE BANDGAP DEVICE IN PARALLEL WITH A DEVICE THAT HAS A LOWER AVALANCHE BREAKDOWN VOLTAGE AND A HIGHER FORWARD VOLTAGE DROP THAN THE WIDE BANDGAP DEVICE	12974599	12/21/2010	8357976	1/22/2013	Fairchild Semiconductor Corporation
730.	MULTI-LEVEL CONTROL FOR PASS TRANSISTOR GATE VOLTAGE	12977535	12/23/2010	8542055	9/24/2013	Fairchild Semiconductor Corporation
731.	POWER DEVICE WITH IMPROVED EDGE TERMINATION	12982051	12/30/2010	8063442	11/22/2011	Fairchild Semiconductor Corporation
732.	METHOD OF FORMING A TOPSIDE CONTACT TO A BACKSIDE TERMINAL OF A SEMICONDUCTOR DEVICE	12982509	12/30/2010	8536042	9/17/2013	Fairchild Semiconductor Corporation
733.	INPUT POWER PORT PROTECTION COMPONENT	12982939	12/31/2010	9019674	4/28/2015	Fairchild Semiconductor Corporation

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734.	INTEGRATED COMPLEMENTARY LOW VOLTAGE RF-LDMOS	13005593	1/13/2011	8324042	12/4/2012	Fairchild Semiconductor Corporation
735.	SIP SUBSTRATE	13005618	1/13/2011	8372690	2/12/2013	Fairchild Semiconductor Corporation
736.	DIFFERENTIAL THERMISTOR CIRCUIT	13014317	1/26/2011	8727616	5/20/2014	Fairchild Semiconductor Corporation
737.	STRUCTURE AND METHOD FOR POST OXIDATION SILICON TRENCH BOTTOM SHAPING	13015448	1/27/2011	8624302	1/7/2014	Fairchild Semiconductor Corporation
738.	METHOD TO IMPROVE THE RELIABILITY OF THE BREAKDOWN VOLTAGE IN HIGH VOLTAGE DEVICES	13015666	1/28/2011	8357562	1/22/2013	Fairchild Semiconductor Corporation
739.	ADAPTIVE RESPONSE TIME ACCELERATION	13026449	2/14/2011	8619240	12/31/2013	Fairchild Semiconductor Corporation
740.	STRUCTURE AND METHOD FOR SEMICONDUCTOR POWER DEVICES	13028054	2/15/2011	8541840	9/24/2013	Fairchild Semiconductor Corporation
741.	DYNAMIC CURRENT BOOST IN CLASS AB AMPLIFIER FOR LOW DISTORTION	13028302	2/16/2011	8373505	2/12/2013	Fairchild Semiconductor Corporation
742.	PASS GATE OFF ISOLATION	13028731	2/16/2011	8564918	10/22/2013	Fairchild Semiconductor Corporation
743.	POWER MODULES WITH REVERSE POLARITY PROTECTION	13030092	2/17/2011	8593771	11/26/2013	Fairchild Semiconductor Corporation
744.	SEMICONDUCTOR DIE PACKAGE INCLUDING IC DRIVER AND BRIDGE	13034584	2/24/2011	8674490	3/18/2014	Fairchild Semiconductor Corporation
745.	LOW TEMPERATURE DIELECTRIC FLOW USING MICROWAVES	13035653	2/25/2011	8569183	10/29/2013	Fairchild Semiconductor Corporation
746.	LAMBDA CORRECTION FOR CURRENT FOLDBACK	13042078	3/7/2011	8610415	12/17/2013	Fairchild Semiconductor Corporation
747.	METHOD OF FORMING SHIELDED GATE POWER TRANSISTOR UTILIZING CHEMICAL MECHANICAL PLANARIZATION	13042292	3/7/2011	8461040	6/11/2013	Fairchild Semiconductor Corporation

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748.	MOSFET DEVICE WITH THICK TRENCH BOTTOM OXIDE	13049629	3/16/2011	8598654	12/3/2013	Fairchild Semiconductor Corporation
749.	INTER-POLY DIELECTRIC IN A SHIELDED GATE MOSFET DEVICE	13049655	3/16/2011	8610205	12/17/2013	Fairchild Semiconductor Corporation
750.	BUFFER SYSTEM HAVING REDUCED THRESHOLD CURRENT	13069624	3/23/2011	8575963	11/5/2013	Fairchild Semiconductor Corporation
751.	LD MOS WITH SELF ALIGNED VERTICAL LDD BACKSIDE DRAIN	13072494	3/25/2011	8450177	5/28/2013	Fairchild Semiconductor Corporation
752.	A VERTICAL MOSFET TRANSISTOR HAVING SOURCE/DRAIN CONTACTS DISPOSED ON THE SAME SIDE AND METHOD FOR MANUFACTURING THE SAME	13074921	3/29/2011	8487371	7/16/2013	Fairchild Semiconductor Corporation
753.	METHOD OF FORMING TRENCH-GATE FIELD EFFECT TRANSISTORS	13075091	3/29/2011	8043913	10/25/2011	Fairchild Semiconductor Corporation
754.	SHIELDED GATE FIELD EFFECT TRANSISTORS	13081400	4/6/2011	8803207	8/12/2014	Fairchild Semiconductor Corporation
755.	SHIELDED GATE TRENCH FET WITH AN INTER-ELECTRODE DIELECTRIC HAVING A LOW-K DIELECTRIC THEREIN	13083253	4/8/2011	8329538	12/11/2012	Fairchild Semiconductor Corporation
756.	METHOD FOR FORMING ACCUMULATION-MODE FIELD EFFECT TRANSISTOR WITH IMPROVED CURRENT CAPABILITY	13083406	4/8/2011	8518777	8/27/2013	Fairchild Semiconductor Corporation
757.	DOUBLE LAYER METAL (DLM) POWER MOSFET	13091578	4/21/2011	8502313	8/6/2013	Fairchild Semiconductor Corporation
758.	MULTI-LEVEL OPTIONS FOR POWER MOSFETS	13091681	4/21/2011	8502314	8/6/2013	Fairchild Semiconductor Corporation
759.	SYNCHRONIZING FREQUENCY AND PHASE OF MULTIPLE VARIABLE FREQUENCY POWER CONVERTERS	13093629	4/25/2011	8279645	10/2/2012	Fairchild Semiconductor Corporation
760.	METHOD AND STRUCTURE FOR DIVIDING A SUBSTRATE INTO INDIVIDUAL DEVICES	13095584	4/27/2011	8343852	1/1/2013	Fairchild Semiconductor Corporation

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761.	SUPERJUNCTION STRUCTURES FOR POWER DEVICES AND METHODS OF MANUFACTURE	13095664	4/27/2011	8786010	7/22/2014	Fairchild Semiconductor Corporation
762.	SUPERJUNCTION STRUCTURES FOR POWER DEVICES AND METHODS OF MANUFACTURE	13095670	4/27/2011	8772868	7/8/2014	Fairchild Semiconductor Corporation
763.	SUPERJUNCTION STRUCTURES FOR POWER DEVICES AND METHODS OF MANUFACTURE	13095678	4/27/2011	8673700	3/18/2014	Fairchild Semiconductor Corporation
764.	SUPERJUNCTION STRUCTURES FOR POWER DEVICES AND METHODS OF MANUFACTURE	13095690	4/27/2011	8836028	9/16/2014	Fairchild Semiconductor Corporation
765.	LOW LATENCY INTERRUPT COLLECTOR	13098898	5/2/2011	8713235	4/29/2014	Fairchild Semiconductor Corporation
766.	EFFICIENT INPUT VOLTAGE SENSING TECHNIQUE	13102667	5/6/2011	8724278	5/13/2014	Fairchild Semiconductor Corporation
767.	ESD PROTECTION ON HIGH IMPEDANCE MIC INPUT	13103514	5/9/2011	8599525	12/3/2013	Fairchild Semiconductor Corporation
768.	STRUCTURE AND METHOD FOR FORMING PLANAR GATE FIELD EFFECT TRANSISTOR WITH LOW RESISTANCE CHANNEL REGION	13103728	5/9/2011	8278686	10/2/2012	Fairchild Semiconductor Corporation
769.	SHIELD CONTACTS IN A SHIELDED GATE MOSFET	13104006	5/9/2011	8338285	12/25/2012	Fairchild Semiconductor Corporation
770.	CONSTANT VGS ANALOG SWITCH	13107491	5/13/2011	8547159	10/1/2013	Fairchild Semiconductor Corporation
771.	CAPACITOR CONTROLLED SWITCH SYSTEM	13109440	5/17/2011	8818005	8/26/2014	Fairchild Semiconductor Corporation
772.	REMOTE DISPLAY GLASSES CAMERA SYSTEM AND METHOD	13109485	5/17/2011	8767083	7/1/2014	Fairchild Semiconductor Corporation
773.	EMBEDDED SEMICONDUCTOR POWER MODULES AND PACKAGES	13110865	5/18/2011	8421204	4/16/2013	Fairchild Semiconductor Corporation
774.	UNDER VOLTAGE TOLERANT CLAMP	13114738	5/24/2011	9391063	07/12/2016	Fairchild Semiconductor Corporation

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775.	VBUS POWER SWITCH	13114761	5/24/2011	9209651	12/8/2015	Fairchild Semiconductor Corporation
776.	RAIL TO RAIL COMPARATOR WITH WIDE HYSTERESIS AND MEMORY	13149399	5/31/2011	9059692	6/16/2015	Fairchild Semiconductor Corporation
777.	SEMICONDUCTOR DICE WITH BACKSIDE TRENCHES FILLED WITH ELASTIC MATERIAL FOR IMPROVED ATTACHMENT, PACKAGES USING THE SAME, AND METHODS OF MAKING THE SAME	13151495	6/2/2011	8598035	12/3/2013	Fairchild Semiconductor Corporation
778.	FIELD EFFECT TRANSISTOR WITH GATED AND NON-GATED TRENCHES	13152041	6/2/2011	8278705	10/2/2012	Fairchild Semiconductor Corporation
779.	HIGH ASPECT RATIO TRENCH STRUCTURES WITH VOID-FREE FILL MATERIAL	13154228	6/6/2011	8198196	6/12/2012	Fairchild Semiconductor Corporation
780.	OUTPUT BUFFER WITH ADJUSTABLE FEEDBACK	13156067	6/8/2011	8405424	3/26/2013	Fairchild Semiconductor Corporation
781.	TRENCH POWER MOSFET WITH REDUCED ON-RESISTANCE	13158927	6/13/2011	8362550	1/29/2013	Fairchild Semiconductor Corporation
782.	DETERMINING AUTOMATIC GAIN CONTROL LEVELS	13159167	6/13/2011	8824701	9/2/2014	Fairchild Semiconductor Corporation
783.	CONDUCTIVE CHIP DISPOSED ON LEAD SEMICONDUCTOR PACKAGE	13177060	7/6/2011	8525321	9/3/2013	Fairchild Semiconductor Corporation
784.	CHARGE BALANCE SEMICONDUCTOR DEVICES WITH INCREASED MOBILITY STRUCTURES	13177931	7/7/2011	8816429	8/26/2014	Fairchild Semiconductor Corporation
785.	SEMICONDUCTOR POWER DEVICE HAVING A TOP-SIDE DRAIN USING A SINKER TRENCH	13178391	7/7/2011	8148233	4/3/2012	Fairchild Semiconductor Corporation
786.	SUBSONIC TEST SIGNAL GENERATION TECHNIQUE	13180801	7/12/2011	9083322	7/14/2015	Fairchild Semiconductor Corporation
787.	PRE-MOLDED CLIP STRUCTURE	13186246	7/19/2011	8513059	8/20/2013	Fairchild Semiconductor Corporation



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788.	AUDIO JACK DETECTION AND CONFIGURATION	13188778	7/22/2011	8831234	9/9/2014	Fairchild Semiconductor Corporation
789.	NO PIN TEST MODE	13188802	7/22/2011	8829932	9/9/2014	Fairchild Semiconductor Corporation
790.	AUDIO JACK RESET	13188834	7/22/2011	8817994	8/26/2014	Fairchild Semiconductor Corporation
791.	MIC/GND DETECTION AND AUTOMATIC SWITCH	13189480	7/22/2011	N/A	N/A	Fairchild Semiconductor Corporation
792.	BOOST POWER CONVERTER WITH HIGH-SIDE ACTIVE DAMPING IN DISCONTINUOUS CONDUCTION MODE	13193311	7/28/2011	8907639	12/9/2014	Fairchild Semiconductor Corporation
793.	HIGH VOLTAGE STARTUP CIRCUIT	13207798	8/11/2011	8638575	1/28/2014	Fairchild Semiconductor Corporation
794.	SELF-SUSTAINING, HIGH VOLTAGE TOLERANT POWER SUPPLY	13210217	8/15/2011	8791679	7/29/2014	Fairchild Semiconductor Corporation
795.	THREE-DIMENSIONAL SEMICONDUCTOR DEVICE STRUCTURES AND METHODS	13212175	8/18/2011	8476703	7/2/2013	Fairchild Semiconductor Corporation
796.	DIFFERENTIAL SENSING FOR VOLTAGE CONTROL IN A POWER SUPPLY CIRCUIT	13216522	8/24/2011	8633680	1/21/2014	Fairchild Semiconductor Corporation
797.	APPARATUS AND METHODS OF SOFT-START IN A HYSTERETIC POWER CONVERTER	13216565	8/24/2011	8742741	6/3/2014	Fairchild Semiconductor Corporation
798.	METHODS OF MANUFACTURING POWER SEMICONDUCTOR DEVICES WITH TRENCHED SHIELDED SPLIT GATE TRANSISTOR	13219229	8/26/2011	8889511	11/18/2014	Fairchild Semiconductor Corporation
799.	METHODS OF MANUFACTURING POWER SEMICONDUCTOR DEVICES WITH SHIELD AND GATE CONTACTS	13219281	8/26/2011	8129245	3/6/2011	Fairchild Semiconductor Corporation
800.	HIGH TEMPERATURE OPERATING PACKAGE AND CIRCUIT DESIGN	13221179	8/30/2011	8803239	8/12/2014	Fairchild Semiconductor Corporation

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801.	NON-LINEAR POWER MANAGEMENT DEVICE FOR INPUT POWER PROTECTION	13225713	9/6/2011	8619397	12/31/2013	Fairchild Semiconductor Corporation
802.	SEMICONDUCTOR PACKAGE WITH AN EMBEDDED PRINTED CIRCUIT BOARD AND STACKED DIE	13227802	9/8/2011	8426953	4/23/2013	Fairchild Semiconductor Corporation
803.	SILICON CARBIDE BIPOLAR JUNCTION TRANSISTOR (BJT) HAVING A SURFACE ELECTRODE DISPOSED ON TOP OF A DIELECTRIC LAYER FORMED AT A REGION BETWEEN EMITTER CONTACT AND BASE CONTACT	13243056	9/23/2011	8378390	2/19/2013	Fairchild Semiconductor Corporation
804.	ISOLATED STACKED DIE SEMICONDUCTOR PACKAGES	13245210	9/26/2011	8198132	6/12/2012	Fairchild Semiconductor Corporation
805.	DIE PACKAGE INCLUDING SUBSTRATE WITH MOLDED DEVICE	13246682	9/27/2011	8525192	9/3/2013	Fairchild Semiconductor Corporation
806.	POWER DEVICE WITH SELF-ALIGNED SOURCE REGIONS	13270050	10/10/2011	8716783	5/6/2014	Fairchild Semiconductor Corporation
807.	BRIDGE CIRCUIT PROVIDING A POLARITY INSENSITIVE POWER CONNECTION	13270726	10/11/2011	8531226	9/10/2013	Fairchild Semiconductor Corporation
808.	PROPORTIONAL BIAS SWITCH DRIVER CIRCUIT	13271185	10/11/2011	8947896	2/3/2015	Fairchild Semiconductor Corporation
809.	AMPLIFIER CROSSTALK CANCELLATION TECHNIQUE	13272021	10/12/2011	8831230	9/9/2014	Fairchild Semiconductor Corporation
810.	POWER MANAGEMENT WITH OVER VOLTAGE PROTECTION	13274654	10/17/2011	8836166	9/16/2014	Fairchild Semiconductor Corporation
811.	EMBEDDED DIE PACKAGE ON PACKAGE (POP) WITH PRE-MOLDED LEADFRAME	13276372	10/19/2011	8389338	3/5/2013	Fairchild Semiconductor Corporation
812.	HYBRID-MODE LDMOS	13278616	10/21/2011	8329542	12/11/2012	Fairchild Semiconductor Corporation

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813.	METHOD OF MANUFACTURING A SIC BIPOLAR JUNCTION TRANSISTOR AND SIC BIPOLAR JUNCTION TRANSISTOR THEREOF	13279053	10/21/2011	8823410	9/2/2014	Fairchild Semiconductor Corporation
814.	STRUCTURE AND METHOD FOR FORMING TRENCH-GATE FIELD EFFECT TRANSISTOR WITH SOURCE PLUG	13279085	10/21/2011	8441069	5/14/2013	Fairchild Semiconductor Corporation
815.	SEMICONDUCTOR STRUCTURE WITH A PLANAR SCHOTTKY CONTACT	13279107	10/21/2011	8450798	5/28/2013	Fairchild Semiconductor Corporation
816.	INTEGRATED GATE RUNNER AND FIELD IMPLANT TERMINATION FOR TRENCH DEVICES	13280452	10/25/2011	8872278	10/28/2014	Fairchild Semiconductor Corporation
817.	REDUCED PROCESS SENSITIVITY OF ELECTRODE-SEMICONDUCTOR RECTIFIERS	13283496	10/27/2011	8492837	7/23/2013	Fairchild Semiconductor Corporation
818.	HIGH EFFICIENCY, THERMALLY STABLE REGULATORS AND ADJUSTABLE ZENER DIODES	13285127	10/31/2011	8981736	3/17/2015	Fairchild Semiconductor Corporation
819.	BOOST CONVERTER WITH MULTI-MODE SYNCHRONOUS RECTIFIER	13287608	11/2/2011	8754616	6/17/2014	Fairchild Semiconductor Corporation
820.	EDGE RATE CONTROL GATE DRIVER FOR SWITCHING POWER CONVERTERS	13294558	11/11/2011	8860398	10/14/2014	Fairchild Semiconductor Corporation
821.	REDUCED TEMPERATURE DEPENDENT HYSTERETIC COMPARATOR	13301990	11/22/2011	8598913	12/3/2013	Fairchild Semiconductor Corporation
822.	ENABLE AND DISABLE COMPARATOR VOLTAGE REFERENCE	13302644	11/22/2011	9014388	4/21/2015	Fairchild Semiconductor Corporation
823.	ENVELOPE EXTRACTION WITH REDUCED BANDWIDTH FOR POWER MODULATION	13309862	12/2/2011	9054937	6/9/2015	Fairchild Semiconductor Corporation
824.	WAFER LEVEL STACK DIE PACKAGE	13323979	12/13/2011	8211747	7/3/2012	Fairchild Semiconductor Corporation
825.	SEMICONDUCTOR DIE PACKAGE	13324078	12/13/2011	N/A	N/A	Fairchild Semiconductor Corporation

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826.	HIGH-VOLTAGE SEMICONDUCTOR DEVICE WITH LATERAL SERIES CAPACITIVE STRUCTURE	13325712	12/14/2011	8592906	11/26/2013	Fairchild Semiconductor Corporation
827.	SEMICONDUCTOR DEVICE WITH (110)-ORIENTED SILICON	13328179	12/16/2011	8338886	12/25/2012	Fairchild Semiconductor Corporation
828.	CONSTANT VGS SWITCH	13331332	12/20/2011	8779839	7/15/2014	Fairchild Semiconductor Corporation
829.	METHODS AND APPARATUS FOR OSCILLATOR FREQUENCY CALIBRATION	13333186	12/21/2011	8692621	4/8/2014	Fairchild Semiconductor Corporation
830.	PROPORTIONAL BIAS SWITCH DRIVER CIRCUIT WITH CURRENT TRANSFORMER	13336136	12/23/2011	8981819	3/17/2015	Fairchild Semiconductor Corporation
831.	NEGATIVE CHARGE PUMP	13338198	12/27/2011	8456225	6/4/2013	Fairchild Semiconductor Corporation
832.	METHODS AND APPARATUS FOR SELF-TRIM CALIBRATION OF AN OSCILLATOR	13341490	12/30/2011	8564375	10/22/2013	Fairchild Semiconductor Corporation
833.	ONE-TIME PROGRAMMABLE FUSE READ	13341609	12/30/2011	8817517	8/26/2014	Fairchild Semiconductor Corporation
834.	WAFER LEVEL BUCK CONVERTER	13342446	1/3/2012	8222081	7/17/2012	Fairchild Semiconductor Corporation
835.	FET DEVICE HAVING ULTRA-LOW ON-RESISTANCE AND LOW GATE CHARGE	13344269	1/5/2012	8710584	4/29/2014	Fairchild Semiconductor Corporation
836.	STARTUP CIRCUIT AND INPUT CAPACITOR BALANCING CIRCUIT	13347616	1/10/2012	8971069	3/3/2015	Fairchild Semiconductor Corporation
837.	ESD PROTECTION AGAINST CHARGE COUPLING	13348949	1/12/2012	8830639	9/9/2014	Fairchild Semiconductor Corporation
838.	DC OFFSET TRACKING CIRCUIT	13350244	1/13/2012	8829991	9/9/2014	Fairchild Semiconductor Corporation
839.	INTEGRATED OVERDRIVE AND OVERVOLTAGE PROTECTION DEVICE	13350565	1/13/2012	8861164	10/14/2014	Fairchild Semiconductor Corporation

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840.	SUCCESSIVE APPROXIMATION RESISTOR DETECTION	13359006	1/26/2012	9229833	1/5/2016	Fairchild Semiconductor Corporation
841.	MEMS MULTI-AXIS ACCELEROMETER ELECTRODE STRUCTURE	13362955	1/31/2012	9062972	6/23/2015	Fairchild Semiconductor Corporation
842.	MEMS PROOF MASS WITH SPLIT Z-AXIS PORTIONS	13363537	2/1/2012	8978475	3/17/2015	Fairchild Semiconductor Corporation
843.	LATERAL POWER DIODE WITH SELF-BIASING ELECTRODE	13365983	2/3/2012	8659117	2/25/2014	Fairchild Semiconductor Corporation
844.	HIGH SIDE DRIVER CIRCUITRY	13368139	2/7/2012	9013903	4/21/2015	Fairchild Semiconductor Corporation
845.	FOUR MOSFET FULL BRIDGE MODULE	13397285	2/15/2012	8367481	2/5/2013	Fairchild Semiconductor Corporation
846.	METHODS AND DESIGNS FOR LOCALIZED WAFER THINNING	13404317	2/24/2012	8624393	1/7/2014	Fairchild Semiconductor Corporation
847.	TRENCH JUNCTION FIELD-EFFECT TRANSISTOR	13408212	2/29/2012	8704296	4/22/2014	Fairchild Semiconductor Corporation
848.	METHODS AND APPARATUS RELATED TO A REPEATER	13408441	2/29/2012	9020418	4/28/2015	Fairchild Semiconductor Corporation
849.	METHODS AND APPARATUS RELATED TO AN IMPROVED COMPLEMENTARY MOSFET SWITCH	13410932	3/2/2012	8624663	1/7/2014	Fairchild Semiconductor Corporation
850.	GROUND FAULT CIRCUIT INTERRUPTER (GFCI) MONITOR	13411550	3/3/2012	8760824	6/24/2014	Fairchild Semiconductor Corporation
851.	OVER-VOLTAGE TOLERANT LEVEL DETECTION CIRCUIT	13414120	3/7/2012	9018982	4/28/2015	Fairchild Semiconductor Corporation
852.	SHIELDED GATE MOSFET DEVICE WITH A FUNNEL-SHAPED TRENCH	13416416	3/9/2012	8816431	8/26/2014	Fairchild Semiconductor Corporation
853.	ECM DIGITAL MICROPHONE TEMPERATURE COMPENSATION	13416495	3/9/2012	9014399	4/21/2015	Fairchild Semiconductor Corporation

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854.	METHODS RELATED TO POWER SEMICONDUCTOR DEVICES WITH THICK BOTTOM OXIDE LAYERS	13418128	3/12/2012	8936985	1/20/2015	Fairchild Semiconductor Corporation
855.	UNDERVOLTAGE PROTECTION SYSTEM	13424960	3/20/2012	8885309	11/11/2014	Fairchild Semiconductor Corporation
856.	METHODS AND APPARATUS FOR VOLTAGE SELECTION FOR A MOSFET SWITCH DEVICE	13427481	3/22/2012	8710900	4/29/2014	Fairchild Semiconductor Corporation
857.	APPARATUS RELATED TO A DIODE DEVICE INCLUDING A JFET PORTION	13427541	3/22/2012	9263438	2/16/2016	Fairchild Semiconductor Corporation
858.	POWER DOWN ENABLED ANALOG SWITCH	13428218	3/23/2012	8502595	8/6/2013	Fairchild Semiconductor Corporation
859.	NO-POWER NORMALLY CLOSED ANALOG SWITCH	13428382	3/23/2012	8928392	1/6/2015	Fairchild Semiconductor Corporation
860.	SEMICONDUCTOR DIE PACKAGE AND METHOD FOR MAKING THE SAME	13430347	3/26/2012	8664752	3/4/2014	Fairchild Semiconductor Corporation
861.	MOBILE DEVICE AUTO DETECTION APPARATUS AND METHOD	13443259	4/10/2012	8683087	3/25/2014	Fairchild Semiconductor Corporation
862.	TRENCH-BASED POWER SEMICONDUCTOR DEVICES WITH INCREASED BREAKDOWN VOLTAGE CHARACTERISTICS	13443986	4/11/2012	8563377	10/22/2013	Fairchild Semiconductor Corporation
863.	CLASS D PULSE WIDTH MODULATOR WITH DUAL FEEDBACK	13445574	4/12/2012	8866544	10/21/2014	Fairchild Semiconductor Corporation
864.	DC VOLTAGE ERROR PROTECTION CIRCUIT	13447448	4/16/2012	N/A	N/A	Fairchild Semiconductor Corporation
865.	HYBRID CONTROL TECHNIQUES FOR SERIES RESONANT CONVERTER	13447762	4/16/2012	8817498	8/26/2014	Fairchild Semiconductor Corporation
866.	SCHOTTKY DIODE WITH OPPOSITE-POLARITY SCHOTTKY DIODE FIELD GUARD RING	13451350	4/19/2012	8736013	5/27/2014	Fairchild Semiconductor Corporation
867.	SWITCHING TECHNIQUES TO REDUCE CURRENT OVERSHOOT IN A DC TO DC CONVERTER	13453042	4/23/2012	9312746	4/12/2016	Fairchild Semiconductor Corporation

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868.	CIRCUIT AND METHOD FOR DETECTING MULTIPLE SUPPLY VOLTAGES	13458574	4/27/2012	8536900	9/17/2013	Fairchild Semiconductor Corporation
869.	POWER-ON-RESET CIRCUIT AND RESET METHOD	13459117	4/28/2012	8547147	10/1/2013	Fairchild Semiconductor Corporation
870.	MULTI-LEVEL LATERAL FLOATING COUPLED CAPACITOR TRANSISTOR STRUCTURES	13461646	5/1/2012	8580644	11/12/2013	Fairchild Semiconductor Corporation
871.	METHOD AND SYSTEM THAT DETERMINES THE VALUE OF A RESISTOR IN LINEAR AND NON-LINEAR RESISTOR SETS	13469737	5/11/2012	9279840	3/8/2016	Fairchild Semiconductor Corporation
872.	DEPLETION-MODE CIRCUIT	13471832	5/15/2012	8610489	12/17/2013	Fairchild Semiconductor Corporation
873.	CONSTANT VGS CHARGE PUMP FOR LOAD SWITCH APPLICATIONS	13481267	5/25/2012	8536928	9/17/2013	Fairchild Semiconductor Corporation
874.	LOAD SWITCH WITH TRUE REVERSE CURRENT BLOCKING	13483291	5/30/2012	9236375	1/12/2016	Fairchild Semiconductor Corporation
875.	HIGH VOLTAGE CLAMP CIRCUIT	13483914	5/30/2012	8729950	5/20/2014	Fairchild Semiconductor Corporation
876.	CURRENT OVERSHOOT LIMITING CIRCUIT	13484962	5/31/2012	8917034	12/23/2014	Fairchild Semiconductor Corporation
877.	FOLDED LEADFRAME MULTIPLE DIE PACKAGE	13492074	6/8/2012	8508025	8/13/2013	Fairchild Semiconductor Corporation
878.	FLEXIBLE POWER MODULE SEMICONDUCTOR PACKAGES	13495916	6/13/2012	8604610	12/10/2013	Fairchild Semiconductor Corporation
879.	SOFT-START CONTROL TECHNIQUES FOR A SWITCHED-MODE POWER SUPPLY	13508615	10/10/2012	9030183	5/12/2015	Fairchild Semiconductor Corporation
880.	SYNCHRONOUS RECTIFIER CONTROL TECHNIQUES FOR A RESONANT CONVERTER	13508649	8/15/2012	9083247	7/14/2015	Fairchild Semiconductor Corporation
881.	MIPI ANALOG SWITCH FOR AUTOMATIC SELECTION OF MULTIPLE IMAGE SENSORS	13529441	6/21/2012	8704552	4/22/2014	Fairchild Semiconductor Corporation

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882.	ACTIVE AUDIO TRANSDUCER PROTECTION	13530757	6/22/2012	9154101	10/6/2015	Fairchild Semiconductor Corporation
883.	PACKAGE WITH MULTIPLE DIES	13546431	7/11/2012	8754509	6/17/2014	Fairchild Semiconductor Corporation
884.	SEMICONDUCTOR DIE PACKAGE AND METHOD FOR MAKING THE SAME	13548250	7/13/2012	8497164	7/30/2013	Fairchild Semiconductor Corporation
885.	SHIELDED GATE TRENCH FET WITH MULTIPLE CHANNELS (AS AMENDED)	13553285	7/19/2012	9224853	12/29/2015	Fairchild Semiconductor Corporation
886.	SYNCHRONOUS BUCK CONVERTER WITH DYNAMICALLY ADJUSTABLE LOW SIDE GATE DRIVER	13554881	7/20/2012	8884597	11/11/2014	Fairchild Semiconductor Corporation
887.	APPARATUS RELATED TO AN INDUCTIVE SWITCHING TEST	13559048	7/26/2012	9097759	8/4/2015	Fairchild Semiconductor Corporation
888.	MULTIPLE BATTERY POWER PATH MANAGEMENT SYSTEM	13559236	7/26/2012	N/A	N/A	Fairchild Semiconductor Corporation
889.	SIMULATING POWER SUPPLY INDUCTOR CURRENT	13564170	8/1/2012	8760134	6/24/2014	Fairchild Semiconductor Corporation
890.	DETECTION AND GSM NOISE FILTERING	13569746	8/8/2012	9294857	3/22/2016	Fairchild Semiconductor Corporation
891.	AUDIO JACK DETECTION CIRCUIT	13569869	8/8/2012	N/A	N/A	Fairchild Semiconductor Corporation
892.	MIC AUDIO NOISE FILTERING	13569944	8/8/2012	9432786	8/30/2016	Fairchild Semiconductor Corporation
893.	MULTI-CHIP MODULE POWER CLIP	13584015	8/13/2012	8723300	5/13/2014	Fairchild Semiconductor Corporation
894.	DETECTING ACCESSORIES ON AN AUDIO OR VIDEO JACK	13584465	8/13/2012	8489782	7/16/2013	Fairchild Semiconductor Corporation
895.	PROTECTIVE MULTIPLEXER	13589690	8/20/2012	8975923	3/10/2015	Fairchild Semiconductor Corporation



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896.	DIE BACKSIDE STANDOFF STRUCTURES FOR SEMICONDUCTOR DEVICES	13597500	8/29/2012	8722528	5/13/2014	Fairchild Semiconductor Corporation
897.	FIELD EFFECT TRANSISTOR AND SCHOTTKY DIODE STRUCTURES	13600184	8/30/2012	8680611	3/25/2014	Fairchild Semiconductor Corporation
898.	UNBALANCED PARALLEL CIRCUIT PROTECTION FUSE DEVICE	13601510	8/31/2012	8866256	10/21/2014	Fairchild Semiconductor Corporation
899.	IMPROVED STARTUP OF DC-DC CONVERTERS UTILIZING MULTIPLE POWER SEGMENTS	13621380	9/17/2012	8957657	2/17/2015	Fairchild Semiconductor Corporation
900.	CHARGER DETECTION WITH PROPRIETARY CHARGER SUPPORT	13627377	9/26/2012	9148026	9/29/2015	Fairchild Semiconductor Corporation
901.	BIPOLAR JUNCTION TRANSISTOR WITH STAIR PROFILE	13629174	9/27/2012	8748943	6/10/2014	Fairchild Semiconductor Corporation
902.	FIELD EFFECT TRANSISTOR WITH SOURCE, HEAVY BODY REGION AND SHIELDED GATE	13633038	10/1/2012	8592895	11/26/2013	Fairchild Semiconductor Corporation
903.	USE OF PLATE OXIDE LAYERS TO INCREASE BULK OXIDE THICKNESS IN SEMICONDUCTOR DEVICES	13665414	10/31/2012	8822296	9/2/2014	Fairchild Semiconductor Corporation
904.	TRENCH-BASED POWER SEMICONDUCTOR DEVICES WITH INCREASED BREAKDOWN VOLTAGE CHARACTERISTICS	13667319	11/2/2012	9293526	3/22/2016	Fairchild Semiconductor Corporation
905.	PHOTOVOLTAIC SYSTEM POWER OPTIMIZATION	13671278	11/7/2012	9276402	3/1/2016	Fairchild Semiconductor Corporation
906.	PIN SELECTABLE I2C SLAVE ADDRESSES	13679465	11/16/2012	9037766	5/19/2015	Fairchild Semiconductor Corporation
907.	SYSTEMS AND METHODS FOR OUTPUT CONTROL	13683321	11/21/2012	8816721	8/26/2014	Fairchild Semiconductor Corporation
908.	DUAL INPUT SINGLE OUTPUT POWER MULTIPLEXER FOR NEAR FIELD COMMUNICATION APPLICATION	13684430	11/23/2012	9236912	1/12/2016	Fairchild Semiconductor Corporation

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909.	SIC BIPOLAR JUNCTION TRANSISTOR WITH OVERGROWN EMITTER	13688067	11/28/2012	8785945	7/22/2014	Fairchild Semiconductor Corporation
910.	METHOD OF MANUFACTURING A SIC BIPOLAR JUNCTION TRANSISTOR AND SIC BIPOLAR JUNCTION TRANSISTOR THEREOF	13689681	11/29/2012	8704546	4/22/2014	Fairchild Semiconductor Corporation
911.	DEVICES, METHODS, AND SYSTEMS WITH MOS-GATED TRENCH-TO-TRENCH LATERAL CURRENT FLOW	13710006	12/10/2012	8704301	4/22/2014	Fairchild Semiconductor Corporation
912.	DC/DC CONVERTER WITH SHUNT CIRCUITRY	13718143	12/18/2012	9201441	12/1/2015	Fairchild Semiconductor Corporation
913.	POWER SWITCHING SYSTEM WITH CONTROL SIGNAL DRIVEN SUPPLY VOLTAGE	13726726	12/26/2012	9273626	3/1/2016	Fairchild Semiconductor Corporation
914.	START-UP CIRCUITRY	13730042	12/28/2012	9106149	8/11/2015	Fairchild Semiconductor Corporation
915.	DIMMER CONTROL WITH SOFT START OVER-CURRENT PROTECTION	13738071	1/10/2013	9166395	10/20/2015	Fairchild Semiconductor Corporation
916.	CONDUCTIVITY MODULATION IN A SILICON CARBIDE BIPOLAR JUNCTION TRANSISTOR	13739815	1/11/2013	N/A	N/A	Fairchild Semiconductor Corporation
917.	SILICON CARBIDE BIPOLAR JUNCTION TRANSISTOR (BJT) HAVING A SURFACE ELECTRODE DISPOSED ON A SURFACE PASSIVATION LAYER FORMED AT A REGION BETWEEN EMITTER CONTACT AND BASE CONTACT	13739923	1/11/2013	8853827	10/7/2014	Fairchild Semiconductor Corporation
918.	NOISE REDUCTION METHOD WITH CHOPPING FOR A MERGED MEMS ACCELEROMETER SENSOR	13742942	1/16/2013	8742964	6/3/2014	Fairchild Semiconductor Corporation
919.	SELF TEST OF MEMS ACCELEROMETER WITH ASICS INTEGRATED CAPACITORS	13742994	1/16/2013	N/A	N/A	Fairchild Semiconductor Corporation
920.	ACCURATE NINETY-DEGREE PHASE SHIFTER	13746016	1/21/2013	8754694	6/17/2014	Fairchild Semiconductor Corporation

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921.	PRODUCTION OF LATERALLY DIFFUSED OXIDE SEMICONDUCTOR (LDMOS) DEVICE AND A BIPOLAR JUNCTION TRANSISTOR (BJT) DEVICE USING A SEMICONDUCTOR PROCESS	13751041	1/25/2013	9117845	8/25/2015	Fairchild Semiconductor Corporation
922.	STEPPED-SOURCE LDMOS ARCHITECTURE	13751909	1/28/2013	8912598	12/16/2014	Fairchild Semiconductor Corporation
923.	MEMS MULTI-AXIS GYROSCOPE WITH CENTRAL SUSPENSION AND GIMBAL STRUCTURE	13755841	1/31/2013	8813564	8/26/2014	Fairchild Semiconductor Corporation
924.	MEMS MULTI-AXIS GYROSCOPE Z-AXIS ELECTRODE STRUCTURE	13755953	1/31/2013	9278845	3/8/2016	Fairchild Semiconductor Corporation
925.	SELF TEST OF MEMS GYROSCOPE WITH ASICS INTEGRATED CAPACITORS	13765068	2/12/2013	9069006	6/30/2015	Fairchild Semiconductor Corporation
926.	DATA-ON-SUPPLY REPEATER	13766305	2/13/2013	9077557	7/7/2015	Fairchild Semiconductor Corporation
927.	LDMOS DEVICE WITH DOUBLE-SLOPED FIELD PLATE	13769661	2/18/2013	8878275	11/4/2014	Fairchild Semiconductor Corporation
928.	PRODUCTION OF HIGH-PERFORMANCE PASSIVE DEVICES USING EXISTING OPERATIONS OF A SEMICONDUCTOR PROCESS	13770453	2/19/2013	8987107	3/24/2015	Fairchild Semiconductor Corporation
929.	BATTERY CHARGING SYSTEM INCLUDING CURRENT OBSERVER CIRCUITRY TO AVOID BATTERY VOLTAGE OVERSHOOT BASED ON BATTERY CURRENT DRAW	13774018	2/22/2013	9287731	3/15/2016	Fairchild Semiconductor Corporation
930.	APPARATUS RELATED TO CAPACITANCE REDUCTION OF A SIGNAL PORT	13774135	2/22/2013	8928142	1/6/2015	Fairchild Semiconductor Corporation
931.	LEVEL SWITCHING CIRCUIT AND METHOD FOR CONTROLLING RAIL-TO-RAIL ENABLING SIGNAL	13789550	3/7/2013	9094019	7/28/2015	Fairchild Semiconductor Corporation
932.	TRANSLATOR INCLUDING OVERSTRESS PROTECTION	13792699	3/11/2013	8981843	3/17/2015	Fairchild Semiconductor Corporation

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933.	FLEXURE BEARING TO REDUCE QUADRATURE FOR RESONATING MICROMACHINED DEVICES	13813443	5/7/2013	9352961	5/31/2016	Fairchild Semiconductor Corporation
934.	PACKAGING TO REDUCE STRESS ON MICROELECTROMECHANICAL SYSTEMS	13821586	9/11/2013	9156673	10/13/2015	Fairchild Semiconductor Corporation
935.	SEALED PACKAGING FOR MICROELECTROMECHANICAL SYSTEMS	13821589	6/24/2013	N/A	N/A	Fairchild Semiconductor Corporation
936.	MICROELECTROMECHANICAL PRESSURE SENSOR INCLUDING REFERENCE CAPACITOR	13821598	6/19/2013	N/A	N/A	Fairchild Semiconductor Corporation
937.	MULTI-DIE MEMS PACKAGE	13821609	5/20/2013	9095072	7/28/2015	Fairchild Semiconductor Corporation
938.	THROUGH SILCON VIA WITH REDUCED SHUNT CAPACITANCE	13821612	6/18/2013	9006846	4/14/2015	Fairchild Semiconductor Corporation
939.	MICROMACHINED MONOLITHIC 6-AXIS INERTIAL SENSOR	13821793	6/24/2013	9278846	3/8/2016	Fairchild Semiconductor Corporation
940.	MICROMACHINED MONOLITHIC 3-AXIS GYROSCOPE WITH SINGLE DRIVE	13821842	7/2/2013	9246018	1/26/2016	Fairchild Semiconductor Corporation
941.	MICROMACHINED 3-AXIS ACCELEROMETER WITH A SINGLE PROOF-MASS	13821853	6/11/2013	N/A	N/A	Fairchild Semiconductor Corporation
942.	ENHANCED ON-TIME GENERATOR	13826543	3/14/2013	9069364	6/30/2015	Fairchild Semiconductor Corporation
943.	EARLY WARNING STROBE FOR MITIGATION OF LINE AND LOAD TRANSIENTS	13826679	3/14/2013	9235221	1/12/2016	Fairchild Semiconductor Corporation
944.	ADAPTIVE STARTUP CONTROL FOR BOOST CONVERTER	13826818	3/14/2013	9081398	7/14/2015	Fairchild Semiconductor Corporation
945.	INPUT POWER PROTECTION	13830964	3/14/2013	9112346	8/18/2015	Fairchild Semiconductor Corporation
946.	METHODS AND APPARATUS RELATED TO A PRECISION INPUT POWER PROTECTION DEVICE	13833756	3/15/2013	9172239	10/27/2015	Fairchild Semiconductor Corporation

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947.	CLAMP CIRCUIT AND METHOD FOR CLAMPING VOLTAGE	13841820	3/15/2013	9077324	7/7/2015	Fairchild Semiconductor Corporation
948.	BUTTON-PRESS DETECTION AND FILTERING	13852812	3/28/2013	N/A	N/A	Fairchild Semiconductor Corporation
949.	MEMS DEVICE FRONT-END CHARGE AMPLIFIER	13857349	4/5/2013	9444404	9/13/2016	Fairchild Semiconductor Corporation
950.	MEMS DEVICE AUTOMATIC-GAIN CONTROL LOOP FOR MECHANICAL AMPLITUDE DRIVE	13857363	4/5/2013	N/A	N/A	Fairchild Semiconductor Corporation
951.	MEMS DEVICE QUADRATURE SHIFT CANCELLATION	13857377	4/5/2013	N/A	N/A	Fairchild Semiconductor Corporation
952.	AUDIO DEVICE SWITCHING WITH REDUCED POP AND CLICK	13860203	4/10/2013	8779962	7/15/2014	Fairchild Semiconductor Corporation
953.	MICRO-ELECTRO-MECHANICAL-SYSTEM (MEMS) DRIVER	13860761	4/11/2013	9094027	7/28/2015	Fairchild Semiconductor Corporation
954.	MEMS QUADRATURE CANCELLATION AND SIGNAL DEMODULATION	13860780	4/11/2013	N/A	N/A	Fairchild Semiconductor Corporation
955.	METHOD AND APPARATUS FOR INTEGRATED CIRCUIT PROTECTION	13862008	4/12/2013	9263431	2/16/2016	Fairchild Semiconductor Corporation
956.	METHOD AND APPARATUS FOR ELECTROSTATIC DISCHARGE PROTECTION	13870500	4/25/2013	9312255	4/12/2016	Fairchild Semiconductor Corporation
957.	FAST LOAD TRANSIENT RESPONSE POWER SUPPLY SYSTEM USING DYNAMIC REFERENCE GENERATION	13870583	4/25/2013	N/A	N/A	Fairchild Semiconductor Corporation
958.	SCALABLE VOLTAGE RAMP CONTROL FOR POWER SUPPLY SYSTEMS	13870627	4/25/2013	8860595	10/14/2014	Fairchild Semiconductor Corporation
959.	LOW-VOLTAGE BAND-GAP VOLTAGE REFERENCE CIRCUIT	13890727	5/9/2013	9164527	10/20/2015	Fairchild Semiconductor Corporation
960.	TRENCH-GATE FIELD EFFECT TRANSISTOR	13891794	5/10/2013	8884365	11/11/2014	Fairchild Semiconductor Corporation

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961.	VOLTAGE REGULATOR WITH IMPROVED LINE REJECTION	13895695	5/16/2013	9170593	10/27/2015	Fairchild Semiconductor Corporation
962.	MAXIMUM VOLTAGE SELECTION CIRCUIT AND METHOD AND SUB-SELECTION CIRCUIT	13913719	6/10/2013	8773168	7/8/2014	Fairchild Semiconductor Corporation
963.	ACCESSORY DETECTION CIRCUIT WITH IMPROVED FUNCTIONALITY	13915150	6/11/2013	9060228	6/16/2015	Fairchild Semiconductor Corporation
964.	WAFER LEVEL MOSFET METALLIZATION	13918562	6/14/2013	8866218	10/21/2014	Fairchild Semiconductor Corporation
965.	SWITCHING CIRCUIT AND CONTROLLER CIRCUIT	13920862	6/18/2013	8994442	3/31/2015	Fairchild Semiconductor Corporation
966.	NOISE-CANCELING HEADPHONE DEPLETION-MODE SWITCH	13920929	6/18/2013	9253564	2/2/2016	Fairchild Semiconductor Corporation
967.	SCHOTTKY-BARRIER DEVICE WITH LOCALLY PLANARIZED SURFACE AND RELATED SEMICONDUCTOR PRODUCT	13920933	6/18/2013	9105557	8/11/2015	Fairchild Semiconductor Corporation
968.	RESONANCE DRIVER FOR DETERMINING A RESONANT FREQUENCY OF A HAPTIC DEVICE	13930096	6/28/2013	9355536	5/31/2016	Fairchild Semiconductor Corporation
969.	CIRCUIT AND METHOD FOR OVERCURRENT DETECTION OF POWER SWITCH	13936331	7/8/2013	N/A	N/A	Fairchild Semiconductor Corporation
970.	SILICON CARBIDE BIPOLAR JUNCTION TRANSISTOR INCLUDING SHIELDING REGIONS	13938006	7/9/2013	N/A	N/A	Fairchild Semiconductor Corporation
971.	DETECTING ACCESSORIES ON AN AUDIO OR VIDEO JACK	13941889	7/15/2013	8914552	12/16/2014	Fairchild Semiconductor Corporation
972.	PULSED GATE DRIVER	13961059	8/7/2013	8810293	8/19/2014	Fairchild Semiconductor Corporation
973.	SENSORLESS CURRENT SENSE FOR REGULATING INDUCTOR CURRENT IN A BUCK CONVERTER	14018847	9/5/2013	9431902	8/30/2016	Fairchild Semiconductor Corporation

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974.	SEMICONDUCTOR DIE PACKAGE AND METHOD FOR MAKING THE SAME	14019351	9/5/2013	9159656	10/13/2015	Fairchild Semiconductor Corporation
975.	WIRELESS MODULE WITH ACTIVE DEVICES	14020775	9/6/2013	N/A	N/A	Fairchild Semiconductor Corporation
976.	THROUGH SILICON VIA INCLUDING MULTI-MATERIAL FILL	14023869	9/11/2013	9425328	8/23/2016	Fairchild Semiconductor Corporation
977.	BIPOLAR JUNCTION TRANSISTOR WITH SPACER LAYER	14048940	10/8/2013	9099517	8/4/2015	Fairchild Semiconductor Corporation
978.	DATA DURING ANALOG AUDIO	14049387	10/9/2013	9118527	8/25/2015	Fairchild Semiconductor Corporation
979.	OPERATIONAL AMPLIFIER CIRCUIT AND METHOD IMPLEMENTING THE SAME	14052244	10/11/2013	9154086	10/6/2015	Fairchild Semiconductor Corporation
980.	APPARATUS AND METHOD FOR OPERATING AND SWITCHING A SINGLE CONDUCTOR INTERFACE	14057245	10/18/2013	N/A	N/A	Fairchild Semiconductor Corporation
981.	TRENCH-BASED POWER SEMICONDUCTOR DEVICES WITH INCREASED BREAKDOWN VOLTAGE CHARACTERISTICS	14058954	10/21/2013	8963212	2/24/2015	Fairchild Semiconductor Corporation
982.	TRENCH-BASED POWER SEMICONDUCTOR DEVICES WITH INCREASED BREAKDOWN VOLTAGE CHARACTERISTICS	14058956	10/21/2013	8932924	1/13/2015	Fairchild Semiconductor Corporation
983.	SUPPLY VOLTAGE INDEPENDENT BANDGAP CIRCUIT	14061177	10/23/2013	9218014	12/22/2015	Fairchild Semiconductor Corporation
984.	FIELD EFFECT TRANSISTOR WITH GATED AND NON-GATED TRENCHES	14068781	10/31/2013	8742401	6/3/2014	Fairchild Semiconductor Corporation
985.	BIPOLAR JUNCTION TRANSISTOR IN SILICON CARBIDE WITH IMPROVED BREAKDOWN VOLTAGE	14068941	10/31/2013	8907351	12/9/2014	Fairchild Semiconductor Corporation
986.	BUFFER SYSTEM HAVING REDUCED THRESHOLD CURRENT	14072442	8/4/2015	9100004	11/5/2013	Fairchild Semiconductor Corporation

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987.	METHODS AND APPARATUS RELATED TO PROTECTION OF A SPEAKER	14074314	11/7/2013	N/A	N/A	Fairchild Semiconductor Corporation
988.	HIGH-VOLTAGE BULK DRIVER USING BYPASS CIRCUIT	14074334	11/7/2013	8947156	2/3/2015	Fairchild Semiconductor Corporation
989.	SECURITY MEASURES FOR DATA PROTECTION	14086591	11/21/2013	9202073	12/1/2015	Fairchild Semiconductor Corporation
990.	WINDOW REFERENCE TRIMMING FOR ACCESSORY DETECTION	14086608	11/21/2013	N/A	N/A	Fairchild Semiconductor Corporation
991.	COMBO ID DETECTION	14086628	11/21/2013	N/A	N/A	Fairchild Semiconductor Corporation
992.	APPARATUS RELATED TO AN IMPROVED PACKAGE INCLUDING A SEMICONDUCTOR DIE	14092485	11/27/2013	9177925	11/3/2015	Fairchild Semiconductor Corporation
993.	NO POP SWITCH	14103013	12/11/2013	8934642	1/13/2015	Fairchild Semiconductor Corporation
994.	DELAY TIME ADJUSTING CIRCUIT, METHOD, AND INTEGRATED CIRCUIT	14103078	12/11/2013	9018998	4/28/2015	Fairchild Semiconductor Corporation
995.	DELAY METHOD, CIRCUIT AND INTEGRATED CIRCUIT	14109161	12/17/2013	8937500	1/20/2015	Fairchild Semiconductor Corporation
996.	ADAPTIVE RESPONSE TIME ACCELERATION	14139193	12/23/2013	N/A	N/A	Fairchild Semiconductor Corporation
997.	POWER SUPPLY WITH DC BREAKER SWITCH AND REDUCED REGULATED DC LINK VOLTAGE	14149938	1/8/2014	9413266	8/9/2016	Fairchild Semiconductor Corporation
998.	DIRECT-DRAIN TRENCH FET WITH SOURCE AND DRAIN ISOLATION	14173587	2/5/2014	9018700	4/28/2015	Fairchild Semiconductor Corporation
999.	PERMANENT LOCKOUT ATTACK DETECTION	14174536	2/6/2014	9202041	12/1/2015	Fairchild Semiconductor Corporation
1000.	SECURE CRYPTO KEY GENERATION AND DISTRIBUTION	14175035	2/7/2014	N/A	N/A	Fairchild Semiconductor Corporation



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1001.	POWER SUPPLY PROTECTION SYSTEM	14176652	2/10/2014	9337728	5/10/2016	Fairchild Semiconductor Corporation
1002.	BATTERY STATE OF CHARGE TRACKING, EQUIVALENT CIRCUIT SELECTION AND BENCHMARKING	14185790	2/20/2014	N/A	N/A	Fairchild Semiconductor Corporation and The University of Connecticut
1003.	BATTERY STATE OF CHARGE TRACKING, EQUIVALENT CIRCUIT SELECTION AND BENCHMARKING	14185835	2/20/2014	N/A	N/A	Fairchild Semiconductor Corporation and The University of Connecticut
1004.	AUDIO AMPLIFIER PERFORMANCE WHILE MAINTAINING USB COMPLIANCE AND POWER DOWN PROTECTION	14190491	2/26/2014	9246445	1/26/2016	Fairchild Semiconductor Corporation
1005.	METHODS AND APPARATUS INCLUDING A CURRENT LIMITER	14199704	3/6/2014	N/A	N/A	Fairchild Semiconductor Corporation
1006.	METHODS AND APPARATUS RELATED TO TERMINATION REGIONS OF A SEMICONDUCTOR DEVICE	14204765	3/11/2014	N/A	N/A	Fairchild Semiconductor Corporation
1007.	MONOLITHIC IGNITION INSULATED-GATE BIPOLAR TRANSISTOR	14212682	3/14/2014	N/A	N/A	Fairchild Semiconductor Corporation
1008.	TEMPERATURE AND POWER SUPPLY CALIBRATION	14217863	3/18/2014	N/A	N/A	Fairchild Semiconductor Corporation
1009.	MAGNETIC SENSOR UTILIZING MAGNETIZATION RESET FOR SENSE AXIS SELECTION	14218771	3/18/2014	N/A	N/A	Fairchild Semiconductor Corporation
1010.	REVERSE CURRENT BLOCKING COMPARATOR	14228614	3/28/2014	9294080	3/22/2016	Fairchild Semiconductor Corporation
1011.	DIFFERENTIAL THERMISTOR CIRCUIT	14272832	5/8/2014	N/A	N/A	Fairchild Semiconductor Corporation
1012.	HEATED ACCELERATED BATTERY CHARGING	14275510	5/12/2014	N/A	N/A	Fairchild Semiconductor Corporation

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1013.	POWER SUPPLY CIRCUIT, METHOD, AND PORTABLE DEVICE	14286043	5/23/2014	N/A	N/A	Fairchild Semiconductor Corporation
1014.	METHOD, CIRCUIT AND INTEGRATED CIRCUIT FOR DETECTING RESONANCE FREQUENCY	14291609	5/30/2014	N/A	N/A	Fairchild Semiconductor Corporation
1015.	DIFFERENTIAL MEASUREMENTS WITH A LARGE COMMON MODE INPUT VOLTAGE	14291640	5/30/2014	9362874	6/7/2016	Fairchild Semiconductor Corporation
1016.	ACCUMULATION-MODE FIELD EFFECT TRANSISTOR WITH IMPROVED CURRENT CAPABILITY	14292894	5/31/2014	9368587	6/14/2016	Fairchild Semiconductor Corporation
1017.	SYSTEM FOR BATTERY MANAGEMENT AND PROTECTION	14293261	6/2/2014	N/A	N/A	Fairchild Semiconductor Corporation
1018.	GROUND FAULT CIRCUIT INTERRUPTER (GFCI) MONITOR	14307051	6/17/2014	N/A	N/A	Fairchild Semiconductor Corporation
1019.	OVERCURRENT PROTECTION METHOD, CIRCUIT AND INTEGRATED CIRCUIT	14313064	6/24/2014	N/A	N/A	Fairchild Semiconductor Corporation
1020.	QUIESCENT CURRENT EQUALIZATION METHOD, OUTPUT STAGE CIRCUIT, CLASS AB AMPLIFIER AND ELECTRONIC DEVICE	14315663	6/26/2014	9350304	5/24/2016	Fairchild Semiconductor Corporation
1021.	LOAD BALANCING IN DISCRETE DEVICES	14337627	7/22/2014	N/A	N/A	Fairchild Semiconductor Corporation
1022.	CHARGING CONTROL CIRCUIT, METHOD AND ELECTRONIC DEVICE THEREOF	14338146	7/22/2014	N/A	N/A	Fairchild Semiconductor Corporation
1023.	MODULATION SCHEME FOR DRIVING A PIEZO ELEMENT	14355874	5/2/2014	N/A	N/A	Fairchild Semiconductor Corporation
1024.	SIDE CHANNEL POWER ATTACK DEFENSE WITH PSEUDO RANDOM CLOCK OPERATION	14447792	7/31/2014	9401802	07/26/2016	Fairchild Semiconductor Corporation

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1025.	COMPLIMENTARY BIT SLICING SIDE CHANNEL ATTACK DEFENSE	14448412	7/31/2014	9423820	8/23/2016	Fairchild Semiconductor Corporation
1026.	COMMON-MODE FEEDBACK DIFFERENTIAL AMPLIFIER	14448855	7/31/2014	9431978	8/30/2016	Fairchild Semiconductor Corporation
1027.	IGNITION CONTROL SHORT CIRCUIT PROTECTION	14449932	8/1/2014	N/A	N/A	Fairchild Semiconductor Corporation
1028.	AUDIO JACK SYSTEM	14453109	8/6/2014	N/A	N/A	Fairchild Semiconductor Corporation
1029.	JUNCTION-LESS INSULATED GATE CURRENT LIMITER DEVICE	14454435	8/7/2014	N/A	N/A	Fairchild Semiconductor Corporation
1030.	LOAD DRIVING METHOD, LOAD DRIVING CIRCUIT, AND APPLICATION DEVICES THEREOF	14488095	9/16/2014	N/A	N/A	Fairchild Semiconductor Corporation
1031.	SUPERJUNCTION STRUCTURES FOR POWER DEVICES AND METHODS OF MANUFACTURE	14491653	9/19/2014	9431481	8/30/2016	Fairchild Semiconductor Corporation
1032.	EDGE RATE CONTROL GATE DRIVER FOR SWITCHING POWER CONVERTERS	14511387	10/10/2014	N/A	N/A	Fairchild Semiconductor Corporation
1033.	LOW DROP OUT SUPPLY ASYMMETRIC DYNAMIC BIASING	14523233	10/24/2014	N/A	N/A	Fairchild Semiconductor Corporation
1034.	INTEGRATED WIRE BONDER AND 3D MEASUREMENT SYSTEM WITH DEFECT REJECTION	14523338	10/24/2014	N/A	N/A	Fairchild Semiconductor Corporation
1035.	DUAL-EDGE TRACKING SYNCHRONOUS RECTIFIER CONTROL TECHNIQUES FOR A RESONANT CONVERTER	14524423	10/27/2014	N/A	N/A	Fairchild Semiconductor Corporation
1036.	RESISTANCE MULTIPLIER	14524505	10/27/2014	9374066	6/21/2016	Fairchild Semiconductor Corporation

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1037.	CONSTANT POWER AVAILABILITY FOR LOAD SWITCHES WITH FOLDBACK CURRENT	14535617	11/7/2014	N/A	N/A	Fairchild Semiconductor Corporation
1038.	DUAL-MODE VOLTAGE DOUBLING BUCK CONVERTER WITH SMOOTH MODE TRANSITION	14560630	12/4/2014	N/A	N/A	Fairchild Semiconductor Corporation
1039.	PACKAGED SEMICONDUCTOR DEVICES AND METHODS OF MANUFACTURING	14560856	12/4/2014	N/A	N/A	Fairchild Semiconductor Corporation
1040.	HIGH-VOLTAGE PACKAGED DEVICE	14573147	12/17/2014	9142430	9/22/2015	Fairchild Semiconductor Corporation
1041.	APPARATUS AND METHODS OF CHARGING TO SAFE CELL VOLTAGE	14587221	12/31/2014	N/A	N/A	Fairchild Semiconductor Corporation
1042.	SUPERJUNCTION STRUCTURES FOR POWER DEVICES AND METHODS OF MANUFACTURE	14589544	1/5/2015	N/A	N/A	Fairchild Semiconductor Corporation
1043.	ISOLATION BETWEEN SEMICONDUCTOR COMPONENTS	14593642	1/9/2015	N/A	N/A	Fairchild Semiconductor Corporation
1044.	MOSFET BRIDGE CIRCUIT	14593691	1/9/2015	N/A	N/A	Fairchild Semiconductor Corporation
1045.	APPARATUS AND METHOD FOR DETECTING INSERTION ANOMALY OF AN AUDIO JACK	14597910	1/15/2015	N/A	N/A	Fairchild Semiconductor Corporation
1046.	APPARATUS AND METHOD FOR RECOVERING FROM PARTIAL INSERTION OF AN AUDIO JACK	14597953	1/15/2015	N/A	N/A	Fairchild Semiconductor Corporation
1047.	CONTROL AND CURRENT MEASUREMENT FUNCTION FOR BATTERY CHARGING, PROTECTION AND FUEL GAUGE COULOMB COUNTING	14606689	1/27/2015	N/A	N/A	Fairchild Semiconductor Corporation
1048.	ENHANCED PEAK CURRENT MODE DC-DC POWER CONVERTER	14611459	2/2/2015	N/A	N/A	Fairchild Semiconductor Corporation
1049.	ADAPTIVE CRITICAL-DUTY-CYCLE CLAMP FOR POWER CONVERTERS	14614915	2/5/2015	N/A	N/A	Fairchild Semiconductor Corporation

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1050.	RESONANT CONVERTER CONTROL TECHNIQUES TO MANAGE NEGATIVE SR CURRENT	14616987	2/9/2015	N/A	N/A	Fairchild Semiconductor Corporation
1051.	USB ADAPTER PROTECTION	14619659	2/11/2015	N/A	N/A	Fairchild Semiconductor Corporation
1052.	ELECTRO-STATIC DISCHARGE FILTERING CIRCUIT AND METHOD, RESET CIRCUIT, AND ELECTRONIC DEVICE	14622320	2/13/2015	N/A	N/A	Fairchild Semiconductor Corporation
1053.	OVERCURRENT DETECTION CIRCUIT AND METHOD, LOAD SWITCH, AND PORTABLE DEVICE	14632764	2/26/2015	N/A	N/A	Fairchild Semiconductor Corporation
1054.	AUDIO ACCESSORY COMMUNICATION WITH ACTIVE NOISE CANCELLATION	14639629	3/5/2015	N/A	N/A	Fairchild Semiconductor Corporation
1055.	MEMS PROOF MASS WITH SPLIT Z-AXIS PORTIONS	14658579	3/16/2015	N/A	N/A	Fairchild Semiconductor Corporation
1056.	UNIFORM DISTRIBUTION DITHERING IN SIGMA-DELTA A/D CONVERTERS	14661388	3/18/2015	9356617	5/31/2016	Fairchild Semiconductor Corporation
1057.	APPARATUS AND METHOD FOR EXTENDING ANALOG FRONT END SENSE RANGE OF A HIGH-Q MEMS SENSOR	14661426	3/18/2015	N/A	N/A	Fairchild Semiconductor Corporation
1058.	TRENCH-BASED POWER SEMICONDUCTOR DEVICES WITH INCREASED BREAKDOWN VOLTAGE CHARACTERISTICS	14670139	3/26/2015	N/A	N/A	Fairchild Semiconductor Corporation
1059.	IGNITION CONTROL CIRCUIT WITH DUAL (TWO-STAGE) CLAMP	14671550	3/27/2015	N/A	N/A	Fairchild Semiconductor Corporation
1060.	SILICON CARBIDE POWER BIPOLAR DEVICES WITH DEEP ACCEPTOR DOPING	14671561	3/27/2015	N/A	N/A	Fairchild Semiconductor Corporation
1061.	ENABLE AND DISABLE COMPARATOR VOLTAGE REFERENCE	14689247	4/17/2015	N/A	N/A	Fairchild Semiconductor Corporation
1062.	AUDIO JACK INSERTION/REMOVAL FAULT DETECTION	14707482	5/8/2015	N/A	N/A	Fairchild Semiconductor Corporation

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1063.	FULL BRIDGE DC/DC CONVERTER CONTROL TECHNIQUES	14734217	6/9/2015	N/A	N/A	Fairchild Semiconductor Corporation
1064.	CLAMP CIRCUIT AND METHOD FOR CLAMPING VOLTAGE	14734268	6/9/2015	9350337	5/24/2016	Fairchild Semiconductor Corporation
1065.	REPORTED STATE-OF-CHARGE SCALING	14741262	6/16/2015	N/A	N/A	Fairchild Semiconductor Corporation
1066.	SIC POWER DEVICE HAVING A HIGH VOLTAGE TERMINATION	14750655	6/25/2015	N/A	N/A	Fairchild Semiconductor Corporation
1067.	SCHOTTKY-BARRIER DEVICE AND RELATED SEMICONDUCTOR PRODUCT	14750682	6/25/2015	N/A	N/A	Fairchild Semiconductor Corporation
1068.	REDUCTION OF DEGRADATION DUE TO HOT CARRIER INJECTION	14752373	6/26/2015	N/A	N/A	Fairchild Semiconductor Corporation
1069.	MULTI-DIE MEMS PACKAGE	14804691	7/21/2015	N/A	N/A	Fairchild Semiconductor Corporation
1070.	BIASED ESD CIRCUIT	14834554	8/25/2015	N/A	N/A	Fairchild Semiconductor Corporation
1071.	OPTIMIZED CHARGING APPARATUS AND METHODS	14834577	8/25/2015	N/A	N/A	Fairchild Semiconductor Corporation
1072.	AUXILIARY SELF-PROTECTING TRANSISTOR STRUCTURE	14834772	8/25/2015	N/A	N/A	Fairchild Semiconductor Corporation
1073.	A FAST AND STABLE ULTRA LOW DROP-OUT (LDO) VOLTAGE CLAMP DEVICE	14855033	9/15/2015	N/A	N/A	Fairchild Semiconductor Corporation
1074.	PACKAGE INCLUDING A SEMICONDUCTOR DIE AND A CAPACITIVE COMPONENT	14927871	10/30/2015	N/A	N/A	Fairchild Semiconductor Corporation
1075.	AUDIO CROSSTALK CALIBRATION SWITCH	14928157	10/30/2015	N/A	N/A	Fairchild Semiconductor Corporation
1076.	METHOD AND APPARATUS FOR ZERO CURRENT DETECTION	14937667	11/10/2015	N/A	N/A	Fairchild Semiconductor Corporation

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1077.	REMOTE GROUND SENSING FOR REDUCED CROSSTALK OF HEADSET AND MICROPHONE AUDIO SIGNALS	14944702	11/18/2015	N/A	N/A	Fairchild Semiconductor Corporation
1078.	VIDEO LINE RATE VERTICAL SCALER	08948196	10/09/1997	6281873	8/28/2001	Fairchild Semiconductor Corporation
1079.	PRIMARY SIDE LAMP CURRENT SENSING FOR MINATURE COLD CATHODE FLUORESCENT LAMP SYSTEM	08726970	10/07/1996	5754012	5/19/1998	Fairchild Semiconductor Corporation
1080.	SWITCHING REGULATOR HAVING LOW POWER MODE RESPONSIVE TO LOAD POWER CONSUMPTION	08917205	08/25/1997	5747977	5/5/1998	Fairchild Semiconductor Corporation
1081.	UNIVERSAL PULSE WIDTH MODULATING POWER CONVERTER	09971844	10/04/2001	6469914	10/22/2002	Fairchild Semiconductor Corporation
1082.	ONE MASK, POWER SEMICONDUCTOR DEVICE FABRICATION PROCESS	08861562	05/22/1997	6110763	8/29/2000	Fairchild Semiconductor Corporation
1083.	PROCESS FOR FORMING HIGH VOLTAGE JUNCTION TERMINATION EXTENSION OXIDE	09167177	10/06/1998	6309952	10/30/2001	Fairchild Semiconductor Corporation
1084.	TRENCH FORMING PROCESS AND INTEGRATED CIRCUIT DEVICE INCLUDING A TRENCH	08959197	10/28/1997	6103635	8/15/2000	Fairchild Semiconductor Corporation
1085.	METHOD OF FABRICATING SCHOTTKY DIODE AND RELATED STRUCTURE	09364232	07/29/1999	6261932	7/17/2001	Fairchild Semiconductor Corporation
1086.	SINGLE POLYSILICON EMITTER BIPOLAR JUNCTION TRANSISTOR PROCESSING TECHNIQUE USING CUMULATIVE PHOTO RESIST APPLICATION AND PATTERNING	10395499	03/24/2003	7018778	3/28/2006	Fairchild Semiconductor Corporation
1087.	TEMPERATURE MONITORING CIRCUIT WITH THERMAL HYSTERESIS	09193659	11/17/1998	6002244	12/14/1999	Fairchild Semiconductor Corporation
1088.	PARTIAL SWITCH GATE DRIVER	11903338	10/21/2007	7551007	6/23/2009	Fairchild Semiconductor Corporation
1089.	PARTIAL SWITCH GATE DRIVER	12489254	06/22/2009	7990187	8/2/2011	Fairchild Semiconductor Corporation

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1090.	SINGLE-STAGE DIGITAL POWER CONVERTER FOR DRIVING LEDS	11086955	03/22/2005	7378805	5/27/2008	Fairchild Semiconductor Corporation
1091.	LARGE SUPPLY RANGE DIFFERENTIAL LINE DRIVER	11188415	07/25/2005	7362146	4/22/2008	Fairchild Semiconductor Corporation
1092.	FLEX CLIP CONNECTOR FOR SEMICONDUCTOR DEVICE	12544159	8/19/2009	7824966	11/2/2010	Fairchild Semiconductor Corporation
1093.	UNIVERSAL SERIAL BUS (USB) TO DIGITAL VIDEO	12815552	6/15/2010	8255576	8/28/2012	Fairchild Semiconductor Corporation
1094.	UNIVERSAL SERIAL BUS (USB) TO DIGITAL VIDEO	12815563	6/15/2010	8316164	11/20/2012	Fairchild Semiconductor Corporation
1095.	WAFER LEVEL EMBEDDED AND STACKED DIE POWER SYSTEM-IN-PACKAGE PACKAGES	13171577	6/29/2011	8247269	8/21/2012	Fairchild Semiconductor Corporation
1096.	SINGLE CRYSTAL U-MOS GATES USING MICROWAVE CRYSTAL REGROWTH	13543033	7/6/2012	8658500	2/25/2014	Fairchild Semiconductor Corporation
1097.	UNIVERSAL SERIAL BUS (USB) TO DIGITAL VIDEO	13680916	11/19/2012	8825930	9/2/2014	Fairchild Semiconductor Corporation
1098.	COMMON DRAIN POWER CLIP FOR BATTERY PACK PROTECTION MOSFET	14026181	9/13/2013	9379045	6/28/2016	Fairchild Semiconductor Corporation
1099.	TRENCH-BASED POWER SEMICONDUCTOR DEVICES WITH INCREASED BREAKDOWN VOLTAGE CHARACTERISTICS	14628989	2/23/2015	9391193	7/12/2016	Fairchild Semiconductor Corporation
1100.	APPARATUS AND METHODS FOR PLL-BASED GYROSCOPE GAIN CONTROL, QUADRATURE CANCELLATION AND DEMODULATION	14217842	3/18/2014	N/A	N/A	Fairchild Semiconductor Corporation
1101.	IMPEDANCE DETECTION CIRCUIT, METHOD, AND INTEGRATED CIRCUIT	14622544	2/13/2015	N/A	N/A	Fairchild Semiconductor Corporation
1102.	AUDIO SWITCH CIRCUIT WITH SLOW TURN-ON	14748066	6/23/2015	N/A	N/A	Fairchild Semiconductor Corporation



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1103.	SWITCH DEVICE WITH SWITCH CIRCUITS THAT PROVIDE HIGH VOLTAGE SURGE PROTECTION	14793382	7/7/2015	N/A	N/A	Fairchild Semiconductor Corporation
1104.	VBUS POWER SWITCH	14960908	12/7/2015	N/A	N/A	Fairchild Semiconductor Corporation
1105.	LOW VOLTAGE SWITCH CONTROL	15079291	3/24/2016	N/A	N/A	Fairchild Semiconductor Corporation