

TRADEMARK ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

ETAS ID: TM337262

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	Notice of Succession of Agency

CONVEYING PARTY DATA

Name	Formerly	Execution Date	Entity Type
Royal Bank of Canada (as successor to Morgan Stanley & Co. LLC)		04/02/2015	Bank: CANADA

RECEIVING PARTY DATA

Name:	Bank of America, N.A., as Successor Agent
Street Address:	One Independence Center 101 N Tryon Street., Mailcode: NC1-001-05-45
City:	Charlotte
State/Country:	NORTH CAROLINA
Postal Code:	28255-0001
Entity Type:	Association: UNITED STATES

PROPERTY NUMBERS Total: 39

Property Type	Number	Word Mark
Registration Number:	3325752	ACTEL FUSION
Registration Number:	2650743	LIBERO
Registration Number:	3832805	SMARTFUSION
Registration Number:	3711187	ACTEL
Registration Number:	3369085	IGLOO
Registration Number:	3381505	F FUSION
Registration Number:	2839980	PROASIC PLUS
Registration Number:	2824875	F
Registration Number:	2808307	PROASIC
Registration Number:	2808306	PROASIC PLUS
Registration Number:	2884794	AXCELERATOR
Registration Number:	1778715	ACTEL
Registration Number:	4339143	TRRUST-PURGE
Registration Number:	4238276	TRRUST-STOR
Registration Number:	3940357	DAZL!
Registration Number:	3994943	ALL CLEAR
Registration Number:	3893800	SAFESCREEN
Registration Number:	3156477	

OP \$990.00 3325752

TRADEMARK

Property Type	Number	Word Mark
Registration Number:	2962199	T-MAX
Registration Number:	4238027	ARMOR
Registration Number:	3685786	STRIKING THE BALANCE!
Registration Number:	3804265	ANALOG TO DIGITAL, CUSTOM TO STANDARD...
Registration Number:	3826561	MOBILESCAN
Registration Number:	3764316	GEN 2ADVANTAGE
Registration Number:	3614139	GEN 2
Registration Number:	3586204	HIPOE
Registration Number:	3614956	SCANPORT
Registration Number:	3400428	
Registration Number:	2683474	POWER MOS IV
Registration Number:	2552196	POWER MOS 7
Registration Number:	3177332	MMSM
Registration Number:	2603685	APT
Registration Number:	2856178	POWERMITE 3
Registration Number:	2335792	MICROSEMI
Registration Number:	2296881	THUNDERBOLT IGBT
Registration Number:	2166537	POWER MOS V
Registration Number:	2079692	PLASTIC PLUS
Registration Number:	1753737	APT
Registration Number:	1534019	

CORRESPONDENCE DATA

Fax Number:

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Email: marina.kelly@thomsonreuters.com

Correspondent Name: Elaine Carrera, Legal Assistant

Address Line 1: 80 Pine Street

Address Line 2: c/o Cahill Gordon & Reindel LLP

Address Line 4: New York, NEW YORK 10005

NAME OF SUBMITTER:	Elaine Carrera, Legal Assistant
SIGNATURE:	/Marina Kelly, Thomson Reuters/
DATE SIGNED:	04/03/2015

Total Attachments: 36

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NOTICE OF SUCCESSION OF AGENCY

V3600/D208
R025783/F0613
R027213/F0611
R4477/F0137
R4659/F0652
R031729/F0667

This NOTICE OF SUCCESSION OF AGENCY (this "Notice"), dated as of April 2, 2015 (the "Effective Date"), is executed by Royal Bank of Canada (the "Prior Agent"), in its capacity as Collateral Agent (and as successor, in such capacity as Collateral Agent, to Morgan Stanley & Co. LLC) (the "Original Agent") under the Original Agreements (as defined below) and Bank of America, N.A., in its capacity as Collateral Agent under the Current Agreements (as defined below) (the "Successor Agent").

WHEREAS, pursuant to that certain Credit Agreement, dated as of October 13, 2011, by and among Borrower, Original Agent and certain other parties thereto (the "Original Credit Agreement"), the Original Agent and certain grantor parties identified on the signature page hereto (the "Grantors") entered into that certain Guarantee and Collateral Agreement, dated as of November 2, 2010 (the "Original Guarantee and Collateral Agreement"), the Copyright Security Agreement, dated as of January 11, 2011 (the "Copyright Security Agreement"), the Patent Security Agreement, dated as of January 11, 2011, as supplemented by the Supplemental Patent Security Agreement dated as of October 26, 2011, the Patent Security Agreement dated as of November 25, 2013 and the Patent Security Agreement dated as of March 7, 2014 (the "Patent Security Agreements"), pursuant to which the Grantors granted a security interest in and to certain collateral and the Trademark Security Agreement dated as of January 11, 2011, as supplemented by the Supplemental Trademark Security Agreement dated as of October 26, 2011, the Trademark Security Agreement dated as of November 25, 2013 and the Trademark Security Agreement dated as of March 7, 2014 (the "Trademark Security Agreements"), pursuant to which, in each case, the Grantors granted a security interest in and to certain collateral;

WHEREAS, the Copyright Security Agreement was recorded with the United States Copyright Office on January 1, 2011 at Reel/Frame V3600/D208, with respect to the copyrights identified on Schedule A attached hereto, the Patent Security Agreements were recorded with the United States Patent and Trademark Office on February 11, 2011 at Reel/Frame 025783/0613, November 11, 2011 at Reel/Frame 027213/0611 and November 26, 2013 at Reel/Frame 031729/0667, with respect to the patents identified on Schedule A attached hereto and the Trademark Security Agreement with the United States Patent and Trademark Office on November 1, 2011 at Reel/Frame 4477/0137 and on November 11, 2011 at Reel/Frame 4659/0652, with respect to the trademarks identified on Schedule A attached hereto;

WHEREAS, the Original Credit Agreement and Original Guarantee and Collateral Agreement were amended and restated, as of March 18, 2014 (the Original Credit Agreement, as amended and restated, the "Original Amended and Restated Credit Agreement," the Original Guarantee and Collateral Agreement as amended, the "Original Amended and Restated Guarantee and Collateral Agreement" and together, the "Restated Agreements"), and in connection with the transactions under the Restated Agreements, the Original Agent, the Prior Agent, the Borrower and certain other parties entered into that certain Successor Agent Agreement dated as of March 18, 2014 (the "Original Successor Agent Agreement"), whereby the Original Agent resigned as Collateral Agent and is succeeded to and replaced by the Prior Agent as successor Collateral Agent.

WHEREAS, the Original Amended and Restated Credit Agreement was amended and restated, as of March 31, 2015 (as amended and restated, collectively, the "Current Credit Agreement"), and in

connection with the transactions under the Current Credit Agreement, the Prior Agent, the Successor Agent, Borrower and certain other parties have into that certain Successor Agent Agreement, dated as of March 31, 2015 (the "Successor Agreement"), whereby the Prior Agent resigned as Collateral Agent and is succeeded to and replaced by the Successor Agent as successor Collateral Agent;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties hereto agree as follows:

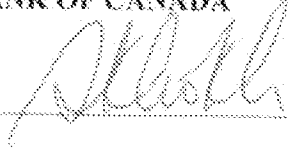
1. Defined Terms. All capitalized terms used, but not otherwise defined herein, shall have the respective meanings ascribed in or otherwise referenced in the Successor Agreement.

2. Succession and Replacement of Agency. Pursuant to the terms and conditions set forth in the Successor Agreement, the Prior Agent has ceased to be Collateral Agent under such capacity and is succeeded to and replaced by the Successor Agent as Collateral Agent under such capacity. Nothing herein shall be deemed to terminate, interrupt or impair the continuity of the security interest in the collateral originally granted to the Original Agent (as succeeded by Prior Agent) under the Copyright Security Agreement, Patent Security Agreements and Trademark Security Agreements, which security interest is now succeeded by and transferred to the Successor Agent.

IN WITNESS WHEREOF, the parties have executed this Notice effective as of the Effective
Date:

ROYAL BANK OF CANADA

By: _____



Name:

Susan Khokher
Manager, Agency

Title:

BANK OF AMERICA, N.A.

By 

Name: **Bridgett J. Manduk Mowry**
Vice President

Title:

[Signature Page to Notice of Succession of Agency]

United States Intellectual Property

U.S. Copyrights:

	Claimant	Title	Registration No.	Registration Date
1.	Actel Corporation	Act 1010	MW0000005995	05/17/1990
2.	Actel Corporation	Act 1020	MW0000005996	05/21/1990
3.	Actel Corporation	ACT 1280 field programmable gate array	MW0000008680	01/27/1993
4.	Microsemi Corporation	Microsemi data book : discrete semiconductors and assemblies	TX0002159337	07/13/1987

U.S. Patents and Patent Applications:

	Assignee	Patent Title	Serial No.	Patent No.
1.	Microsemi SOC Corp.	Dedicated interface architecture for a hybrid integrated circuit	12114143	20080204074
2.	Microsemi Semiconductor (U.S.) Inc.	Light activated silicon controlled switch	12061085	20090250706
3.	Microsemi Semiconductor (U.S.) Inc.	Methods of counter-doping collector regions in bipolar transistors	12061264	20090250789
4.	Microsemi Corporation	Millimeter Wave Concealed Object Detection System Using Portal Deployment	12867807	20110102597
5.	Microsemi Semiconductor (U.S.) Inc.	Control circuit and method for thin film head write driver	08447978	5550502
6.	Actel Corporation	Electrically programmable antifuse incorporating dielectric and amorphous silicon interlayers	08231634	5552627
7.	Microsemi Corporation	Low voltage dropout circuit with compensating capacitance circuitry	08376028	5552697
8.	Microsemi Corporation	Low voltage dropout circuit with compensating capacitance circuitry	08459734	5563501
9.	Actel Corporation	Esd protection device for antifuses with top polysilicon electrode	08289678	5572061
10.	Actel Corporation	Single-transistor electrically-alterable switch employing fowler nordheim tunneling for program and erase	08374494	5576568
11.	Microsemi Semiconductor (U.S.) Inc.	Implementation and method for a digital sigma-delta modulator	08510139	5581253
12.	Microsemi Semiconductor (U.S.) Inc.	Compact antenna for portable microwave radio	08514392	5583521
13.	Microsemi Semiconductor (U.S.) Inc.	Dc level control for an electronic telephone line card	08398295	5583934
14.	Microsemi Semiconductor (U.S.) Inc.	A multi-stage digital-to-analog conversion circuit and method	08333460	5585802
15.	Actel Corporation	Two-transistor zero-power electrically-alterable non-volatile latch	08369760	5587603
16.	Microsemi Semiconductor (U.S.) Inc.	Dtmf detector system and method which performs static and dynamic thresholding	08585530	5588053
17.	Actel Corporation	Antifuse with improved antifuse material	08423518	5592016
18.	Microsemi Corporation	Frequency stability bootstrapped current mirror	08399738	5592123
19.	Actel Corporation	Random access memory (ram) based configurable arrays	08334885	5594698
20.	Microsemi Corporation	Source and sink voltage regulator for terminators	08423748	5608312
21.	Actel Corporation	Metal-to-metal antifuse with conductive	08284054	5614756
22.	Microsemi Corporation	Current synchronous zero voltage switching resonant topology	08286359	5615093
23.	Actel Corporation	Two-transistor electrically-alterable switch employing hot electron injection and fowler nordheim tunneling	08371685	5625211
24.	Actel Corporation	Flexible fpga input/output architecture	08444243	5625301 >
25.	Microsemi Corporation	Elimination of motor negative voltages during motor brake	08434764	5631528 >
26.	Microsemi Corporation	Controllable active terminator for a computer bus	08423747	5635852 >

	Assignee	Patent Title	Serial No.	Patent No.
27.	Actel Corporation	Programmable non-volatile bidirectional switch for programmable logic	08506828	5640344
28.	Microsemi Semiconductor (U.S.) Inc.	Extended chip select reset apparatus and method	08504502	5675271
29.	Microsemi Semiconductor (U.S.) Inc.	Telephone ringing signal detector	08445236	5675640
30.	Microsemi Semiconductor (U.S.) Inc.	Computer system and method for performing wavetable music synthesis which stores wavetable data in system memory which minimizes audio infidelity due to wavetable data access latency	08622761	5689080
31.	Microsemi Semiconductor (U.S.) Inc.	Dtmf detector system and method which performs improved twist computation and thresholding	08588407	5694466
32.	Microsemi Semiconductor (U.S.) Inc.	Conversion of compressed speech codes between attenuated and unattenuated formats	08397907	5715309
33.	Microsemi Semiconductor (U.S.) Inc.	Computer system and method for performing wavetable music synthesis which stores wavetable data in system memory employing a high priority i/o bus request mechanism for improved audio fidelity	08622472	5717154
34.	Microsemi Semiconductor (U.S.) Inc.	Method of weak pull-up disable and mechanism therefor for use with microcontroller in integrated circuit and cordless telephone using the integrated circuit	08332430	5731738
35.	Microsemi Semiconductor (U.S.) Inc.	Apparatus for preventing accidental or intentional fuse blowing	08652640	5731760
36.	Microsemi Semiconductor (U.S.) Inc.	Dsp architecture for a fir-type filter and method	08555685	5732004
37.	Microsemi Semiconductor (U.S.) Inc.	Dsp with register file and multi-function instruction sequencer for vector processing by macu	08643342	5732251
38.	Microsemi Semiconductor (U.S.) Inc.	High swing, low power output stage for an operational amplifier	08600841	5739721
39.	Microsemi Semiconductor (U.S.) Inc.	Wavetable audio synthesizer with waveform volume control for eliminating zipper noise	08333562	5742695
40.	Actel Corporation	Flexible, high-performance static ram architecture for field-programmable gate arrays	08603597	5744980
41.	Microsemi Semiconductor (U.S.) Inc.	Implementation of a digital decimation filter and method	08557511	5751615
42.	Microsemi Corporation	Semi-soft switching and precedent switching in synchronous power supply controllers	08742094	5757173
43.	Actel Corporation	Floating gate fpga cell with select device on drain	08703683	5761120
44.	Microsemi Semiconductor (U.S.) Inc.	Ring-signal generation in a slic	08808605	5764755
45.	Microsemi Semiconductor (U.S.) Inc.	High conversion gain cmos mixer	08615734	5768700
46.	Actel Corporation	Floating gate fgpa cell with separated select device	08704853	5773862
47.	Actel Corporation	Antifuse with improved antifuse material	08745096	5789764
48.	Microsemi Semiconductor (U.S.) Inc.	High performance echo canceler for high speed modem	08739009	5790658
49.	Microsemi Semiconductor (U.S.) Inc.	Configurable digital wireless and wired communications system architecture for implementing baseband functionality	08719799	5790817
50.	Microsemi Semiconductor (U.S.) Inc.	Communications device with improved ring signal detection	08760818	5796815

	Assignee	Patent Title	Serial No.	Patent No.
51.	Microsemi Corporation	Self-aligned power mosfet device with recessed gate and source	08106406	5801417
52.	Actel Corporation	Fabrication process for raised tungsten plug antifuse	08657971	5804500
53.	Microsemi Semiconductor (U.S.) Inc.	High swing low power general purpose operational amplifier	08600843	5805021
54.	Microsemi Semiconductor (U.S.) Inc.	Transistor ratio controlled cmos transmission line equalizer	08706885	5805031
55.	Microsemi Semiconductor (U.S.) Inc.	Integrated ring sensor with fault detection	08457668	5809109
56.	Microsemi Semiconductor (U.S.) Inc.	Dtmf detector system and method which performs frequency domain energy calculations with improved performance	08653283	5809133
57.	Microsemi Semiconductor (U.S.) Inc.	Computer system and method for generating delay-based audio effects in a wavetable music synthesizer which stores wavetable data in system memory	08623850	5809342
58.	Microsemi Semiconductor (U.S.) Inc.	Combined analog and digital communications device	08696201	5815505
59.	Microsemi Semiconductor (U.S.) Inc.	High speed analog flip-flop with embedded logic and phase-locked-loop circuit employing the same	08806289	5818293
60.	Microsemi Semiconductor (U.S.) Inc.	Cable length estimation circuit using data signal edge rate detection and analog to digital conversion	08872272	5818378
61.	Actel Corporation	Field programmable gate array with mask programmed analog function circuits	08792902	5821776
62.	Actel Corporation	Nonvolatile reprogrammable interconnect cell with fn tunneling in sense	08829374	5838040
63.	Microsemi Semiconductor (U.S.) Inc.	System and method for performing automatic gain control with gain scheduling and adjustment at zero crossings for reducing distortion	08712870	5838269
64.	Microsemi Semiconductor (U.S.) Inc.	Receiver quality measurement system for use in digital cordless telephones and like apparatus	08531049	5839061
65.	Microsemi Semiconductor (U.S.) Inc.	System and method for performing combined digital/analog automatic gain control for improved clipping suppression	08712773	5841385
66.	Microsemi Semiconductor (U.S.) Inc.	Low voltage fully differential operational amplifier with improved common mode circuitry	08916135	5844442
67.	Microsemi Semiconductor (U.S.) Inc.	Adaptive echo cancellation used with echo suppression to reduce short and long duration echoes	08390320	5852661
68.	Microsemi Semiconductor (U.S.) Inc.	Dual voltage, self-monitoring line circuit	08693426	5854839
69.	Microsemi Semiconductor (U.S.) Inc.	Apparatus and method for automated testing of a programmable analog gain stage	08771337	5861774
70.	Microsemi Semiconductor (U.S.) Inc.	Communications system with multiple, simultaneous accesses to a memory	08980579	5872993
71.	Microsemi Semiconductor (U.S.) Inc.	Digital direct current feed control for a communication system	08699049	5878133
72.	Microsemi Semiconductor (U.S.) Inc.	Self-monitoring line interface circuit	08693428	5881129
73.	Microsemi Semiconductor (U.S.) Inc.	System and method for performing echo cancellation in a communications network employing a mixed mode lms adaptive balance filter	08594018	5887059
74.	Microsemi Semiconductor (U.S.) Inc.	Intermediate frequency gain stage with rectifier	08780691	5893028
75.	Actel Corporation	Floating gate fpga cell with counter-doped select device	08708074	5894148

	Assignee	Patent Title	Serial No.	Patent No.
76.	Microsemi Semiconductor (U.S.) Inc.	Burst synchronization of time division multiplexed transceiver pairs	08914015	5898685
77.	Microsemi Semiconductor (U.S.) Inc.	Method and apparatus for entering a test mode of an externally non-programmable device	08710937	5900739
78.	Microsemi Semiconductor (U.S.) Inc.	A threshold voltage level generator for time division duplex communications	08856358	5900749
79.	Microsemi Semiconductor (U.S.) Inc.	System and method for performing software patches in embedded systems	08759611	5901225
80.	Actel Corporation	Antifuse programmed prom cell	08797202	5909049
81.	Microsemi Semiconductor (U.S.) Inc.	Improved ring oscillator circuit	08769578	5909151
82.	Microsemi Semiconductor (U.S.) Inc.	Parallel decimator method and apparatus	08710321	5917734
83.	Actel Corporation	Raised tungsten plug antifuse and fabrication processes	08772241	5920109
84.	Microsemi Corporation	Apparatus and method for starting a fluorescent lamp	09042144	5923129
85.	Microsemi Corporation	High speed digital bus termination y	08739372	5926031
86.	Microsemi Semiconductor (U.S.) Inc.	Direct current feed with line status change adaptation in a communication system	08870895	5926544
87.	Microsemi Corporation	Os rectifying schottky and ohmic junction and w/wc/tic ohmic contacts on sic	08612216	5929523
88.	Microsemi Corporation	Direct drive backlight system	09042125	5930121
89.	Actel Corporation	Logic function module for field programmable array	08794096	5936426
90.	Microsemi Semiconductor (U.S.) Inc.	Signal detection circuit using a plurality of delay stages with edge detection logic	08974672	5942937
91.	Microsemi Corporation	Electronic circuit breaker	08928269	5943203
92.	Microsemi Semiconductor (U.S.) Inc.	Method and apparatus for external intermediate data processing	08909383	5946353
93.	Microsemi Semiconductor (U.S.) Inc.	Telephone subscriber line diagnostics system and method	08880007	5956386
94.	Actel Corporation	Field programmable gate array with mask programmed input and output buffers	08792482	5959466
95.	Actel Corporation	Improved metal-to-metal via-type antifuse	08895723	5962910
96.	Microsemi Semiconductor (U.S.) Inc.	Arrangement and method for controlling gain of analog-to-digital converters	08985586	5963159
97.	Microsemi Semiconductor (U.S.) Inc.	Apparatus and method for decoding differential multi-level data with adaptive threshold control	09047439	5969646
98.	Microsemi Semiconductor (U.S.) Inc.	Silent polarity reversal in a communication system	08870894	5970099
99.	Microsemi Semiconductor (U.S.) Inc.	System and method for detecting voice activity based on integrated absolute values of the differentiated zero crossing rate	09008967	5970447
100.	Microsemi Semiconductor (U.S.) Inc.	Apparatus and method for protocol interface	08726268	5978688
101.	Microsemi Corporation	Multiple channel class d audio amplifier	08899445	5982231

	Assignee	Patent Title	Serial No.	Patent No.
102.	Microsemi Semiconductor (U.S.) Inc.	Test detection apparatus and method	08675297	5982815
103.	Microsemi Semiconductor (U.S.) Inc.	Silicon controlled rectifier with reduced substrate current	08994481	5986290
104.	Actel Corporation	Reduced leakage antifuse structure	08472050	5986322
105.	Microsemi Semiconductor (U.S.) Inc.	System and method for providing fdd and tdd modes of operation for a wireless communications device	08856541	5987010
106.	Microsemi Semiconductor (U.S.) Inc.	System and method for enhanced speech quality in voice storage and retrieval systems	08399497	5991725
107.	Microsemi Semiconductor (U.S.) Inc.	Apparatus and method for a combination d/a converter and fir filter employing active current division from a single current source	08526834	5995030
108.	Microsemi Semiconductor (U.S.) Inc.	Fourth order digital noise shaper circuit	08668532	6005505
109.	Microsemi Semiconductor (U.S.) Inc.	Arrangement for asynchronous decimation using a frequency ratio estimator and method thereof	08807836	6005901
110.	Microsemi Semiconductor (U.S.) Inc.	Method of using an audio transmission signal to transmit video data	08915667	6008856
111.	Microsemi Semiconductor (U.S.) Inc.	Multipoint access protocol utilizing a point-to-point methodology	08820526	6011781
112.	Microsemi Semiconductor (U.S.) Inc.	A communications system with a configurable data transfer architecture	08980578	6012136
113.	Microsemi Semiconductor (U.S.) Inc.	Configuring a communications system with a configurable data transfer architecture	08980580	6029239
114.	Microsemi Semiconductor (U.S.) Inc.	Digital communications using serialized delay line	08972227	6031473
115.	Microsemi Semiconductor (U.S.) Inc.	Electronic system having a multistage low noise output buffer system	08919126	6037810
116.	Actel Corporation	Sram bus architecture and interconnect to an fpga	09039923	6038627
117.	Microsemi Semiconductor (U.S.) Inc.	Method and apparatus for detecting signal misalignment	09159028	6046977
118.	Microsemi Semiconductor (U.S.) Inc.	Digital wavetable audio synthesizer with delay-based effects processing	08334462	6047073
119.	Actel Corporation	Embedded static random access memory for field programmable gate array	09039891	6049487
120.	Microsemi Semiconductor (U.S.) Inc.	System and method for programmable telephone subscriber line test	08879986	6058161
121.	Microsemi Semiconductor (U.S.) Inc.	Wavetable audio synthesizer with waveform volume control for eliminating zipper noise	08863887	6064743
122.	Actel Corporation	Nonvolatile reprogrammable interconnect cell with programmable buried bitline	09205876	6072720
123.	Microsemi Semiconductor (U.S.) Inc.	Fifo and system synchronization system and method	08923321	6075831
124.	Microsemi Semiconductor (U.S.) Inc.	System and method for bit interleaving of full-rate speech data	08873625	6101465
125.	Microsemi Semiconductor (U.S.) Inc.	Method of and apparatus for encoding of output symbol size	08915690	6108390
126.	Microsemi Semiconductor (U.S.) Inc.	Battery monitor with software trim	09110798	6118384
127.	Microsemi Semiconductor (U.S.) Inc.	Self-testing data modulator	08463683	6122313

	Assignee	Patent Title	Serial No.	Patent No.
128.	Actel Corporation	Raised tungsten plug antifuse and fabrication processes	09062298	6124193
129.	Microsemi Semiconductor (U.S.) Inc.	Narrowband digital cordless telephone	08760883	6125139
130.	Actel Corporation	Nonvolatile reprogrammable interconnect cell with programmable buried source/drain in sense transistor	09205678	6137728
131.	Microsemi Semiconductor (U.S.) Inc.	System and method for programmable telephone subscriber line test in ring mode	08880008	6144722
132.	Microsemi Semiconductor (U.S.) Inc.	Wireless telephony ring detection method for extended battery life	09059115	6144840
133.	Microsemi Corporation	Method of making os and w/wc/tic ohmic and rectifying contacts on sic	09251897	6150246
134.	Actel Corporation	Enhanced field programmable gate array	08807455	6150837
135.	Microsemi Semiconductor (U.S.) Inc.	Voltage sensing current foldback switch circuit	09162662	6169425
136.	Microsemi Semiconductor (U.S.) Inc.	Switch hook status determination in a communication system	08870892	6178241
137.	Via Optronics GmbH	Super bright low reflection liquid crystal display	09235584	6181394
138.	Microsemi Semiconductor (U.S.) Inc.	Circuit and methodology for transferring signals between semiconductor devices	08962667	6192069
139.	Microsemi Corporation	Dimmable backlight system	09328536	6198234
140.	Actel Corporation	Integrated circuit that includes a field-programmable gate array and a hard gate array having the same underlying structure	09318198	6211697
141.	Microsemi Semiconductor (U.S.) Inc.	Method and apparatus for generating tones in a multi-tone modem	09106993	6219377
142.	Microsemi Semiconductor (U.S.) Inc.	Ring trip detection in a communication system	08870893	6219417
143.	Microsemi Semiconductor (U.S.) Inc.	An integrated circuit having a programmable input/output processor that is used for increasing the flexibility of communications	09148103	6219824
144.	Microsemi Semiconductor (U.S.) Inc.	Method and apparatus for power regulation of digital data transmission	09097031	6226356
145.	Microsemi Corporation	Multiple channel class d audio amplifier	09388412	6229388
146.	Actel Corporation	Cyclic redundancy checking of a field programmable gate array having an sram memory architecture	09039924	6237124
147.	Actel Corporation	Programmable multi-standard i/o architecture for fpgas	09224929	6242943
148.	Microsemi Semiconductor (U.S.) Inc.	Method and system to meter and control usage of telephone systems	09270707	6246756
149.	Actel Corporation	Nonvolatile reprogrammable interconnect cell with fn tunneling device for programming and erase	09138838	6252273
150.	Actel Corporation	Block symmetrization in a field programmable gate array	09518974	6268743
151.	Microsemi Semiconductor (U.S.) Inc.	Arrangement and method for selectable time/frequency division multiplex communication	09031896	6269086
152.	Microsemi Semiconductor (U.S.) Inc.	Communications device including an improved cpe alerting signal (cas) detection system	09062894	6269160
153.	Actel Corporation	Block connector splitting in logic block of a field programmable gate array	09518973	6285212

	Assignee	Patent Title	Serial No.	Patent No.
154.	Microsemi Semiconductor (U.S.) Inc.	System and method for detecting floating nodes within a simulated integrated circuit	09540191	6285975
155.	Microsemi Corporation	Method and apparatus for programmable current sharing	09544769	6292378
156.	Microsemi Semiconductor (U.S.) Inc.	Method of coding a number for storing in a memory	08919958	6295011
157.	Microsemi Semiconductor (U.S.) Inc.	Integrated circuit reset incorporating battery monitor and watchdog timer	08914017	6307480
158.	Microsemi Semiconductor (U.S.) Inc.	Wireless telephony ring detection method for extended battery life	09570644	6311079
159.	Actel Corporation	Radiation tolerant flash FPGA	09737643	6324102
160.	Microsemi Semiconductor (U.S.) Inc.	System and method for bit interleaving of full-rate speech data	09580654	6324504
161.	Microsemi Semiconductor (U.S.) Inc.	Low operating power, high voltage ringing switch circuit	09643253	6333664
162.	Microsemi Semiconductor (U.S.) Inc.	Method and apparatus for scaling modem transfer capacity in a multi-channel communications system	09141216	6337877
163.	Microsemi Semiconductor (U.S.) Inc.	Collision handling scheme for discrete multi-tone data communications network	09286987	6339599
164.	Actel Corporation	Flash based control for field programmable gate array	09748648	6356478
165.	Microsemi Semiconductor (U.S.) Inc.	Method and apparatus for detecting and measuring foreign voltages	09128579	6356624
166.	Microsemi Semiconductor (U.S.) Inc.	Method and system for improved detection of analog signals	09160485	6370555
167.	Microsemi Semiconductor (U.S.) Inc.	Lateral bipolar junction transistor with reduced parasitic current loss	09563979	6372595
168.	Microsemi Semiconductor (U.S.) Inc.	Phase -locked loop arrangement with fast lock mode	08876816	6373912
169.	Microsemi Semiconductor (U.S.) Inc.	Telephone calling party announcement system and method	08936155	6373925
170.	Microsemi Semiconductor (U.S.) Inc.	Monitoring line conditions in the data transmission mode	08853300	6374375
171.	Microsemi Semiconductor (U.S.) Inc.	System and method for identifying and announcing a caller and a callee of an incoming telephone call	08969780	6385303
172.	Microsemi Corporation	W/wc/tac ohmic and rectifying contacts on sic	09628978	6388272
173.	Actel Corporation	Programmable multi-standard I/O architecture for FPGAs	09738508	6392437
174.	Microsemi Semiconductor (U.S.) Inc.	Method and apparatus for controlling reset	09642710	6400195
175.	Microsemi Semiconductor (U.S.) Inc.	Apparatus and method to reduce power amplifier noise generation in a multiplexed communication system	09212744	6404824
176.	Microsemi Semiconductor (U.S.) Inc.	Multi-tone transceiver for multiple users	09236122	6424674
177.	Actel Corporation	Embedded static random access memory for field programmable gate array	09513248	6430088
178.	Microsemi Semiconductor (U.S.) Inc.	Differential encoding arrangement for a discrete multi-tone transmission system	09286989	6434188
179.	Actel Corporation	Raised tungsten plug antifuse and fabrication processes	09669035	6437365
180.	Prosys Technology, Inc.	Method and apparatus for storing a validation number in a	09285563	6446242

	Assignee	Patent Title	Serial No.	Patent No.
		field-programmable gate array		
181.	Microsemi Semiconductor (U.S.) Inc.	Method and apparatus for frequency shifting with a clock signal	09286993	6449262
182.	Microsemi Semiconductor (U.S.) Inc.	Method and apparatus for achieving frequency diversity by use of multiple images	09286992	6456602
183.	Microsemi Semiconductor (U.S.) Inc.	Method and apparatus for transmitting data from a plurality of users in a multi-tone modem communications system	09357724	6498807
184.	Microsemi Semiconductor (U.S.) Inc.	Method and apparatus for allocating tones to a plurality of users in a multi-tone modem communications system	09359343	6501791
185.	Microsemi Corporation	Power mos device with asymmetrical channel structure for enhanced linear operation capability	09925289	6503786
186.	Microsemi Semiconductor (U.S.) Inc.	Method and apparatus for inserting idle symbols	09260251	6519280
187.	Actel Corporation	Antifuse programming method	09736898	6529038
188.	Actel Corporation	Method and apparatus of memory clearing with monitoring memory cells	10077188	6531891
189.	Microsemi Semiconductor (U.S.) Inc.	Transceiver with variable width cyclic prefix	09257674	6535550
190.	Microsemi Semiconductor (U.S.) Inc.	Method and apparatus for managing data transfer and acknowledgement	09340578	6545993
191.	Actel Corporation	High density antifuse based partitioned fpga architecture	09153828	6549035
192.	Microsemi Semiconductor (U.S.) Inc.	Method and apparatus for prioritizing interrupts in a communication system	09406936	6553443
193.	Microsemi Corporation	Charge pump regulator with load current control	09880545	6556067
194.	Microsemi Semiconductor (U.S.) Inc.	Signal detector with matched filter coefficient	09196258	6556674
195.	Microsemi Semiconductor (U.S.) Inc.	Method and apparatus for accessing variable sized blocks of data	09196537	6560652
196.	Actel Corporation	Cyclic redundancy checking of a field programmable gate array having an sram memory architecture	09734784	6560743
197.	Actel Corporation	Method and apparatus for bootstrapping a programmable antifuse circuit	N/A	6564273
198.	Actel Corporation	Block level routing architecture in a field programmable gate array	09519081	6567968
199.	Actel Corporation	Antifuse memory cell and antifuse memory cell array	10231708	6570798
200.	Actel Corporation	Antifuse memory cell and antifuse memory cell array	09742550	6570805
201.	Microsemi Semiconductor (U.S.) Inc.	Efficient dynamic energy thresholding in multiple-tone multiple frequency detectors	09160417	6574334
202.	Microsemi Semiconductor (U.S.) Inc.	Methods and apparatus for channel adaptation in a dmt based system	09286996	6577598
203.	Microsemi Semiconductor (U.S.) Inc.	Signal detector with automatic gain control	09225978	6580792
204.	Microsemi Semiconductor (U.S.) Inc.	Cross-frame dual tone multifrequency detector	09159143	6587559
205.	Actel Corporation	Architecture and interconnect scheme for programmable logic circuits	10117875	6597196
206.	Actel Corporation	Antifuse incorporating tantalum nitride barrier layer	09741374	6603142

	Assignee	Patent Title	Serial No.	Patent No.
207.	Microsemi Corporation	Switching regulator with transient recovery circuit	10136614	6605931
208.	Actel Corporation	Tileable field-programmable gate array architecture	10061955	6611153
209.	Microsemi Semiconductor (U.S.) Inc.	Method for conserving power in transceivers	09243391	6611564
210.	Microsemi Semiconductor (U.S.) Inc.	Method and apparatus for intra-bundle signaling	09363441	6614879
211.	Actel Corporation	Programmable multi-standard i/o architecture for fpgas	10246095	6617875
212.	Microsemi Corporation	Class d amplifier with passive rc network	10080932	6621335
213.	Microsemi Semiconductor (U.S.) Inc.	Method and apparatus for verifying and correcting connectivity	09225387	6621831
214.	Actel Corporation	Block connector splitting in logic block of a field programmable gate array	09880679	6624657
215.	Actel Corporation	Method and apparatus for universal program controlled bus architecture	10231320	6624658
216.	Microsemi Semiconductor (U.S.) Inc.	Method and apparatus for packet data transmission and reception	09340982	6625128
217.	Microsemi Semiconductor (U.S.) Inc.	Method and apparatus for improving voltage to current signal conversion	09778129	6628534
218.	Microsemi Semiconductor (U.S.) Inc.	Signal processing arrangement including variable length adaptive filter and method therefor	08853075	6633894
219.	Microsemi Corporation	Controller for switch mode power supply	10042600	6636025
220.	Microsemi Corporation	Multiple output charge pump	09880528	6636104
221.	Actel Corporation	Turn architecture for routing resources in a field programmable gate array	09519312	6636930
222.	Microsemi Semiconductor (U.S.) Inc.	Method for determining a decimation pattern in a network communications receiver	09510775	6651078
223.	Microsemi Corporation	Method and apparatus for controlling minimum brightness of a fluorescent lamp	10234653	6654268
224.	Microsemi Corporation	Apparatus for controlling a high voltage circuit using a low voltage circuit	09976700	6657274
225.	Microsemi Semiconductor (U.S.) Inc.	Amplifier circuit with regenerative biasing	10001274	6657496
226.	Microsemi Semiconductor (U.S.) Inc.	Method and apparatus for detecting an activation tone	09498435	6661891
227.	Microsemi Corporation	Power mos device with asymmetrical channel structure for enhanced linear operation capability	10268274	6664594
228.	Microsemi Semiconductor (U.S.) Inc.	Method and system for improved analog signal detection	09160484	6665350
229.	Microsemi Semiconductor (U.S.) Inc.	Method and apparatus for dc feed control	09420713	6671373
230.	Actel Corporation	Programming circuitry for configurable fpga i/o	09748745	6678848
231.	Actel Corporation, Inc.	Block symmetrization in a field programmable gate array	09880629	6680624
232.	Microsemi Corporation	Compound semiconductor protection device for low voltage and high speed data lines	10096995	6683334
233.	Actel Corporation	Tileable field-programmable gate array architecture	10066398	6700404

	Assignee	Patent Title	Serial No.	Patent No.
234.	Microsemi Corporation	Methods for fabricating a compound semiconductor protection device for low voltage and high speed data lines	10261362	6703284
235.	Actel Corporation	Architecture and interconnect scheme for programmable logic circuits	10269364	6703861
236.	Microsemi Semiconductor (U.S.) Inc.	Method and apparatus for generating comfort noise	09401088	6708024
237.	Microsemi Semiconductor (U.S.) Inc.	Tone detector with noise detection and dynamic thresholding for robust performance	09160415	6711540
238.	Actel Corporation	Antifuse incorporating tantalum nitride barrier layer	10157777	6713369
239.	Microsemi Semiconductor (U.S.) Inc.	Communication device with primitive synchronization signal	09477200	6714589
240.	Microsemi Semiconductor (U.S.) Inc.	Programmable memory based control for generating optimal timing to access serial flash devices	09577402	6714993
241.	Actel Corporation	Delay locked loop for an fpga architecture	09519311	6718477
242.	Actel Corporation	Antifuse memory cell and antifuse memory cell array	10231655	6721197
243.	Actel Corporation	Field programmable gate array architecture including a buffer module and a method of distributing buffer modules in a field programmable gate array	10293895	6727726
244.	Actel Corporation	Programming methods for an amorphous carbon metal-to-metal antifuse	10327675	6728126
245.	Microsemi Semiconductor (U.S.) Inc.	Method and apparatus for mixing down and spectrum folding frequency diverse modulated carrier	09497030	6728325
246.	Microsemi Semiconductor (U.S.) Inc.	Method and apparatus for impedance matching	09268011	6728370
247.	Actel Corporation	Routing structures for a tileable field-programmable gate array architecture	10077190	6731133
248.	Actel Corporation	Tileable field-programmable gate array architecture	10061951	6744278
249.	Actel Corporation	Architecture and interconnect scheme for programmable logic circuits	10428724	6747482
250.	Actel Corporation	Carry chain for use between logic modules in a field programmable gate array	10264288	6750674
251.	Actel Corporation	Field programmable gate array and microcontroller system-on-a-chip	09654237	6751723
252.	Actel Corporation	Programmable multi-standard i/o architecture for fpgas	10024661	6762621
253.	Microsemi Semiconductor (U.S.) Inc.	Method and apparatus for handling incoming calls	09263373	6763092
254.	Microsemi Semiconductor (U.S.) Inc.	Signal detector with duration-based frame width	09196267	6763106
255.	Microsemi Corporation	Multiple channel class d audio amplifier	09388269	6763114
256.	Microsemi Corporation	Method of fabricating self-aligned silicon carbide semiconductor devices	10360662	6764907
257.	Actel Corporation	Method and apparatus for bootstrapping a programmable antifuse circuit	10216332	6765427
258.	Actel Corporation	Metal-to-metal antifuse employing carbon-containing antifuse material	10405860	6767769
259.	Microsemi Semiconductor (U.S.) Inc.	Transcoder-codec circuit arrangement and method that supports voice- switched hands-free radio operation	09047866	6768776

	Assignee	Patent Title	Serial No.	Patent No.
260.	Microsemi Semiconductor (U.S.) Inc.	Signal detector with coefficient swapping transform unit	09225276	6771767
261.	Actel Corporation	Side mounted valve operator	10016728	6772387
262.	Actel Corporation	Method and apparatus for a flexible chargepump scheme for field-programmable gate arrays	10143721	6774667
263.	Actel Corporation	Field programmable gate array freeway architecture	10334338	6774669
264.	Actel Corporation	Intra-tile buffer system for a field programmable gate array	10334340	6774670
265.	Actel Corporation	Field-programmable gate array architecture	10334339	6774672
266.	Actel Corporation	Three input field programmable gate array logic circuit configurable as a three input look up table, a d-latch or a d flip-flop	10137729	6777977
267.	Microsemi Semiconductor (U.S.) Inc.	Method and apparatus for sensing current	09527768	6778663
268.	Microsemi Semiconductor (U.S.) Inc.	Method and apparatus for encryption and decryption	09373934	6778670
269.	Actel Corporation	Method and apparatus for universal program controlled bus architecture	10412975	6781410
270.	Microsemi Corporation	Transimpedance amplifier with selective dc compensation	10406071	6784750
271.	Microsemi Corporation	Apparatus and methods for generating an electronic signal responsive to selected light	09847908	6787757
272.	Actel Corporation	Enhanced field programmable gate array	09819084	6791353
273.	Microsemi Semiconductor (U.S.) Inc.	Apparatus for transmitting and receiving signals	09340576	6792286
274.	Actel Corporation	High density antifuse based partitioned fpga architecture	10411627	6794897
275.	Actel Corporation	Sram bus architecture and interconnect to an fpga	10406860	6799240
276.	Actel Corporation	Inter-tile buffer system for a field programmable gate array	10334393	6800884
277.	Microsemi Corporation	Implantable cardiac defibrillation with control circuit for controlling a high voltage circuit using a low voltage circuit	10650546	6800916
278.	Microsemi Corporation	Pseudo-differential transimpedance amplifier	10406064	6803825
279.	Actel Corporation	Metal-to-metal antifuse structure and fabrication method	09737642	6809398
280.	Microsemi Corporation	Multiple output charge pump	10667799	6812776
281.	Microsemi Corporation	Switching regulator with transient recovery circuit	10635426	6825642
282.	Actel Corporation	Clock tree network in a field programmable gate array	10448258	6825690
283.	Microsemi Semiconductor (U.S.) Inc.	Apparatus and method for facilitating standardized testing of signal lines	09362456	6826155
284.	Microsemi Corporation	Method and apparatus for dithering auto-synchronization of a multiphase switching power converter	10424557	6836103
285.	Microsemi Corporation	Compound semiconductor protection device for low voltage and high speed data lines	10744160	6838710
286.	Actel Corporation	Apparatus and method of error detection and correction in a	10335234	6838899

	Assignee	Patent Title	Serial No.	Patent No.
		radiation-hardened static random access memory field-programmable gate array		
287.	Actel Corporation	Synchronous first-in/first-out block memory for a field programmable gate array	10448259	6838902
288.	Actel Corporation	Block connector splitting in logic block of a field programmable gate array	10608454	6838903
289.	Actel Corporation	Antifuse structure and a method of forming an antifuse structure	10625491	6841846
290.	Microsemi Corporation	Low leakage input protection device and scheme for electrostatic discharge	09808676	6842318
291.				
292.	Microsemi Semiconductor (U.S.) Inc.	Frequency-dependent impedance synthesis for dsl interface circuits	10017883	6842518
293.	Microsemi Corporation	Power supply with control circuit for controlling a high voltage circuit using a low voltage circuit	10650534	6853047
294.	Actel Corporation	Radiation shielding die carrier package	10724531	6853055
295.	Actel Corporation	Block symmetrization in a field programmable gate array	10670883	6861869
296.	Microsemi Semiconductor (U.S.) Inc.	Method and apparatus for switch hook detection	09558187	6865269
297.	Actel Corporation	Dedicated input/output first in/first out module for a field programmable	10452764	6867615
298.	Microsemi Corp.	Shorted lamp detection in backlight system	10400326	6870330
299.	Actel Corporation	Tileable field-programmable gate array architecture	10429004	6870396
300.	Microsemi Corporation	Lamp inverter with pre-regulator	10463289	6876157
301.	Actel Corporation	Parallel programmable antifuse field programmable gate array device (fpga) and a method for programming and testing an antifuse fpga	10267917	6885218
302.	Actel Corporation	Tileable field-programmable gate array architecture	10429002	6888375
303.	Actel Corporation	Field-programmable gate array low voltage differential signaling driver utilizing two complimentary output buffers	10163096	6891394
304.	Actel Corporation	Repeatable block producing a non-uniform routing architecture in a field programmable gate array having segmented tracks	10330672	6891396
305.	Actel Corporation	Flash/dynamic random access memory field programmable gate array	10623111	6891769
306.	Actel Corporation	Flash/dynamic random access memory field programmable gate array	10623111	6891769
307.	Microsemi Corporation	Charge pump regulator with load current control	10382748	6897709
308.	Actel Corporation	Block level routing architecture in a field programmable gate array	10288778	6898777
309.	Actel Corporation	Programmable multi-standard i/o architecture for fpgas	10246094	6909306
310.	Microsemi Semiconductor (U.S.) Inc.	Double time-constant for electrostatic discharge clamping	10745382	6917207
311.	Microsemi Semiconductor (U.S.) Inc.	Returning ringing signals through the tip amplifier of subscriber-line interface circuitry	10646624	6925178

	Assignee	Patent Title	Serial No.	Patent No.
312.	Microsemi Semiconductor (U.S.) Inc.	Method and apparatus for reducing false hook detection	09758893	6930751
313.	Actel Corporation	Turn architecture for routing resources in a field programmable gate array	10429003	6934927
314.	Microsemi Corporation	Split-gate power module and method for suppressing oscillation therein	10352314	6939743
315.	Microsemi Corporation	Split-gate power module and method for suppressing oscillation therein	10352314	6939743
316.	Microsemi Semiconductor (U.S.) Inc.	Capacitor cancellation method and apparatus	10020379	6940969
317.	Microsemi Corporation	Memory module	10445283	6943454
318.	Actel Corporation	Chip carrier substrate with a land grid array and external bond terminals	10724530	6946726
319.	Microsemi Corporation	Method and apparatus for controlling minimum brightness of a fluorescent lamp	10719498	6946806
320.	Actel Corporation	Multi-level routing architecture in a field programmable gate array having transmitters and receivers	10323613	6946871
321.	Microsemi Semiconductor (U.S.) Inc.	Method and apparatus for phantom battery feed	10384300	6956945
322.	Actel Corporation and Texas Tech University System	Amorphous carbon metal-to-metal antifuse with adhesion promoting layers	10331144	6965156
323.	Microsemi Corp.	Method and apparatus for auto-interleaving synchronization in a multiphase switching power converter	10424549	6965219
324.	Actel Corporation	User available body scan chain	10071262	6968487
325.	Microsemi Corporation	Square wave drive system	10463280	6969958
326.	Actel Corporation	Methods of redundancy in a floating trap memory element based field programmable gate array	10459412	6970383
327.	Actel Corporation	Method and apparatus for universal program controlled bus architecture	10811422	6975138
328.	Actel Corporation	Delay locked loop for an fpga architecture	10722636	6976185
329.	Microsemi Corporation	Apparatus and method for striking a fluorescent lamp	10453760	6979959
330.	Microsemi Corporation	Apparatus and method for striking a fluorescent lamp	10453760	6979959
331.	Actel Corporation	Synchronous first-in/first-out block memory for a field programmable gate array	10948010	6980027
332.	Actel Corporation	Dedicated input/output first in/first out module for a field programmable gate array	11056983	6980028
333.	Microsemi Corporation	Silicon carbide semiconductor devices with a regrown contact layer	10339040	6982440
334.	Actel Corporation	Architecture and interconnect scheme for programmable logic circuits	10829527	6989688
335.	Actel Corporation	Deglitching circuits for a radiation-hardened static random access memory based programmable architecture	10636346	6990010
336.	Microsemi Semiconductor (U.S.) Inc.	Method and apparatus for handling voice and data signals	09751417	6990191
337.	Microsemi Corp.	Method and apparatus for load sharing in a multiphase switching power converter	10424556	7005835

	Assignee	Patent Title	Serial No.	Patent No.
338.	Microsemi Semiconductor (U.S.) Inc.	Device and method for determining characteristics of a digital subscriber line	09627680	7006445
339.	Microsemi Corporation	Pin or nip low capacitance transient voltage suppressors and steering diodes	10788536	7009831
340.	Actel Corporation	Tileable field-programmable gate array architecture	11056957	7015719
341.	Actel Corporation	Low-capacitance input/output and electrostatic discharge circuit for protecting an integrated circuit from electrostatic discharge	10619172	7019368
342.	Microsemi Semiconductor (U.S.) Inc.	Tone detector with noise detection and dynamic thresholding for robust performance	10805917	7024357
343.	Actel Corporation	Integrated circuit including programmable logic and external-device chip-enable override control	10877045	7030649
344.	Actel Corporation	Programmable system on a chip for power-supply voltage and current monitoring and control	10850054	7034569
345.	Microsemi Corporation	Front side illuminated photodiode with backside bump	10669081	7038288
346.	Microsemi Semiconductor (U.S.) Inc.	Method and apparatus for frequency hopping in a spread spectrum digital cordless telephone system	09361893	7042923
347.	Microsemi Semiconductor (U.S.) Inc.	Method and apparatus for accessing memories having a time-variant response over a pci bus by using two-stage dma transfers	09904748	7047328
348.	Actel Corporation	Clock tree network in a field programmable gate array	10916926	7049846
349.	Actel Corporation	Sram bus architecture and interconnect to an fpga	10802577	7054967
350.	Microsemi Corporation	Zigzag topology for balancing current among paralleled gas discharge lamps	11095294	7061183
351.	Actel Corporation	Field programmable gate array and microcontroller system-on-a-chip	10821533	7069419
352.	Microsemi Semiconductor (U.S.) Inc.	Wavetable audio synthesizer with left offset, right offset and effects volume control	09352659	7088835
353.	Actel Corporation	Sram cell controlled by non-volatile memory cell	10959404	7099189
354.	Microsemi Inc.	Method and apparatus to switch operating modes in a pfm converter	10760626	7102339
355.	Microsemi Corporation	Dual-mode pfm boost converter	10761801	7102340
356.	Actel Corporation	Non-volatile memory architecture for programmable-logic-based system on a chip	10898149	7102384
357.	Actel Corporation	Clock-generator architecture for a programmable-logic-based system on a chip	10903473	7102391
358.	Microsemi Corporation	Full-bridge and half-bridge compatible driver timing schedule for direct drive backlight system	11090246	7112929
359.	Actel Corporation	Non-volatile memory configuration scheme for volatile-memory-based programmable circuits in an fpga	11021472	7112993
360.	Microsemi Semiconductor (U.S.) Inc.	Method and apparatus for a differential feedback in an active impedance feedback circuit	10384299	7113590
361.	Actel Corporation	Voltage- and temperature-compensated rc oscillator circuit	11022331	7116181
362.	Actel Corporation	Transistor having fully-depleted junctions to reduce capacitance and increase radiation immunity in an integrated circuit	10629337	7119393

	Assignee	Patent Title	Serial No.	Patent No.
363.	Actel Corporation	Power-up and power-down circuit for system-on-a-chip integrated circuit	11021092	7119398
364.	Actel Corporation	Deglitching circuits for a radiation-hardened static random access memory based programmable architecture	11323417	7126842
365.	Actel Corporation	System-on-a-chip integrated circuit including dual-function analog and digital inputs	10877043	7129746
366.	Actel Corporation	Non-volatile look-up table for an fpga	11026336	7129748
367.	Actel Corporation	Integrated multi-function analog circuit including voltage, current, and temperature monitor and gate-driver circuit blocks	11016699	7138824
368.	Actel Corporation	Method for erasing programmable interconnect cells for field programmable gate arrays using reverse bias voltage	11171489	7161841
369.	Actel Corporation	Bi-directional pin or nip low capacitance transient voltage suppressors and steering diodes	11071513	7164568
370.	Actel Corporation	Programmable system on a chip	10843701	7170315
371.	Microsemi Semiconductor (U.S.) Inc.	Method and apparatus for a single power supply for dual power mode	10384296	7181002
372.	Microsemi Corporation	Inverter with two switching stages for driving lamp	11011754	7183724
373.	Microsemi Corporation	Optical and temperature feedbacks to control display brightness	10937889	7183727
374.	Microsemi Corporation	Device for protecting i/o lines using pin or nip conducting low capacitance transient voltage suppressors and steering diodes	11071127	7187012
375.	Microsemi Corporation	Split phase inverters for ccfl backlight system	10903636	7187139
376.	Microsemi Corporation	Lamp current control using profile synthesizer	11011753	7187140
377.	Microsemi Semiconductor (U.S.) Inc.	Method and apparatus for adaptive dc level control	09751421	7190784
378.	Actel Corporation	Radiation tolerant sram bit	10752222	7193885
379.	Actel Corporation	Dedicated input/output first in/first out module for a field programmable gate array	11428944	7199609
380.	Microsemi Corporation	Spray coating apparatus and fixtures	10339800	7208046
381.	Actel Corporation	Field programmable gate array long line routing network	11028471	7212030
382.	Actel Corporation	Sram bus architecture and interconnect to an fpga	11410415	7213091
383.	Microsemi Semiconductor (U.S.) Inc.	Current sensing echo cancellation device	10068780	7215764
384.	Actel Corporation	Integrated circuit wafer with inter-die metal interconnect lines traversing scribe-line boundaries	11171510	7224042
385.	Actel Corporation	Sram cell controlled by flash memory cell	11427456	7224603
386.	Actel Corporation	Synchronous first-in/first-out block memory for a field programmable gate array	11297088	7227380
387.	Microsemi Corporation	Method and apparatus to drive led arrays using time sharing technique	11011752	7239087
388.	Microsemi Semiconductor (U.S.) Inc.	Method and apparatus for controlling atm streams	09587722	7239640
389.	Microsemi Semiconductor (U.S.) Inc.	Method and apparatus for detecting line card threshold	09753343	7239695

	Assignee	Patent Title	Serial No.	Patent No.
390.	Microsemi Corporation	Wide bandgap semiconductor device construction	10630238	7241699
391.	Microsemi Corporation	Current sharing scheme for multiple ccf lamp operation	10958668	7242147
392.	Actel Corporation	Chip carrier substrate with a land grid array and external bond terminals	11128682	7244633
393.	Actel Corporation	Non-volatile programmable memory cell for programmable logic array	11233396	7245535
394.	Actel Corporation	Circuit and method for supplying programming potential at voltages larger than bv_{dss} of programming transistors	10997688	7248094
395.	Microsemi Corporation	Systems and methods for a transformer configuration with a tree topology for current balancing in gas discharge lamps	10970243	7250726
396.	Microsemi Corporation	Primary side current balancing scheme for multiple ccf lamp operation	11099995	7250731
397.	Microsemi Semiconductor (U.S.) Inc.	Bipolar transistor with geometry optimized for device performance, and method of making same	10885250	7253498
398.	Microsemi Semiconductor (U.S.) Inc.	Method and apparatus for an active impedance feedback	10384304	7254229
399.	Actel Corporation	Programmable system on a chip for temperature monitoring and control	10850568	7256610
400.	Microsemi Semiconductor (U.S.) Inc.	Unbalanced slic with a built-in ring circuit	10384302	7260210
401.	Microsemi Corporation	Current-mode direct-drive inverter	11011760	7265499
402.	Actel Corporation	System for signal routing line aggregation in a field-programmable gate array	11027789	7268585
403.	Actel Corporation	Address transition detector for fast flash memory device	11303863	7268589
404.	Actel Corporation	Parallel programmable antifuse field programmable gate array device (fpga) and a method for programming and testing an antifuse fpga	11532757	7269814
405.	Microsemi Semiconductor (U.S.) Inc.	Methods of forming a p-well in an integrated circuit device	10899596	7273776
406.	Microsemi Corporation	Systems and methods for fault protection in a balancing transformer	10970248	7279851
407.	Microsemi Corporation	Apparatus and method for striking a fluorescent lamp	11255563	7279852
408.	Actel Corporation	Architecture for routing resources in a field programmable gate array	11202686	7279930
409.	Actel Corporation	Mixed-signal system-on-a-chip analog signal direct interconnection through programmable logic control	11465530	7280058
410.	Actel Corporation	Non-volatile two-transistor programmable logic cell and array layout	11155005	7285818
411.	Actel Corporation	Apparatus and method of error detection and correction in a radiation-hardened static random access memory field-programmable gate array	11617559	7288957
412.	Microsemi Corporation	Balancing transformers for ring balancer	10959667	7294971
413.	Actel Corporation	Clock-generator architecture for a programmable-logic-based system on a chip	11427717	7298178
414.	Actel Corporation	Volatile data storage in a non-volatile memory cell array	11251074	7301821
415.	Actel Corporation	Apparatus and method for initializing an integrated circuit device and activating a function of the device once an input	10318281	7310760

	Assignee	Patent Title	Serial No.	Patent No.
		power supply has reached a threshold voltage		
416.	Microsemi Corporation	Shoot-through prevention circuit for passive level-shifter	11183554	7313006
417.	Microsemi Corporation	Square wave drive system	11240115	7321200
418.	Actel Corporation	Non-volatile look-up table for an fpga	11551973	7321237
419.	Microsemi Semiconductor (U.S.) Inc.	Optical isolator device, and method of making same	11621863	7326582
420.	Microsemi Corporation	Split-gate power module for suppressing oscillation therein	11145042	7342262
421.	Actel Corporation	Non-volatile two-transistor programmable logic cell and array layout	11750650	7342278
422.	Actel Corporation	Tileable field-programmable gate array architecture	11561705	7342416
423.	Actel Corporation	Bit line pre-settlement circuit and method for flash memory sensing scheme	11281253	7342832
424.	Actel Corporation	Integrated circuit device having state-saving and initialization feature	10857472	7352206
425.	Actel Corporation	Amorphous carbon metal-to-metal antifuse with adhesion promoting layers	11210492	7358589
426.	Actel Corporation	Architecture for face-to-face bonding between substrate and multiple daughter chips	11171488	7358601
427.	Actel Corporation	Block level routing architecture in a field programmable gate array	11088621	7360195
428.	Actel Corporation	Integrated circuit including programmable logic and external-device chip-enable override control	11279046	7362131
429.	Actel Corporation	Programming method for non-volatile memory and non-volatile memory-based programmable logic device	11319751	7362610
430.	Actel Corporation	Programmable system on a chip for power-supply voltage and current monitoring and control	11345549	7365565
431.	Actel Corporation	Three input field programmable gate array logic circuit configurable as a three input look up table, a d-latch or a d flip-flop	11426158	7365567
432.	Actel Corporation	Radiation tolerant sram bit	11676188	7366008
433.	Microsemi SOC Corporation	Non-volatile programmable memory cell and array for programmable logic array	11152018	7368789
434.	Actel Corporation	Clock tree network in a field programmable gate array	11387636	7375553
435.	Actel Corporation	Field-programmable gate array low voltage differential signaling driver utilizing two complimentary output buffers	11548199	7378867
436.	Actel Corporation	Enhanced field programmable gate array	10916214	7382155
437.	Actel Corporation	Method and apparatus for universal program controlled bus architecture	11219597	7382156
438.	Actel Corporation	Non-volatile memory architecture for programmable-logic-based system on a chip	11460055	7385418
439.	Actel Corporation	Dedicated input/output first in/first out module for a field programmable gate array	11677432	7385419
440.	Actel Corporation	Repeatable block producing a non-uniform routing architecture in a field programmable gate array having segmented tracks	11426541	7385420

	Assignee	Patent Title	Serial No.	Patent No.
441.	Actel Corporation	Block symmetrization in a field programmable gate array	11748865	7385421
442.	Microsemi Corporation	Ramp generator with fast reset	11181649	7388413
443.	Microsemi SOC Corporation	Dedicated interface architecture for a hybrid integrated circuit	09069054	7389487
444.	Actel Corporation	Switching ratio and on-state resistance of an antifuse programmed below 5 ma and having a ta or tan barrier metal layer	11078952	7390726
445.	Microsemi Corporation	Optical and temperature feedbacks to control display brightness	11679046	7391172
446.	Actel Corporation	Reprogrammable metal-to-metal antifuse employing carbon-containing antifuse material	11195002	7393722
447.	Actel Corporation	Field programmable gate array long line routing network	11692717	7394286
448.	Actel Corporation	Synchronous first-in/first-out block memory for a field programmable gate array	11737030	7394289
449.	Actel Corporation	Circuit and method for supplying programming potential at voltages larger than bvdss of programming transistors	11769169	7400185
450.	Microsemi SOC Corporation	Mixed signal system-on-a-chip integrated simultaneous multiple sample/hold circuits and embedded analog comparators	11612771	7400283
451.	Actel Corporation	Deglitching circuits for a radiation-hardened static random access memory based programmable architecture	11484243	7403411
452.	Microsemi SOC Corporation	Fpga architecture having two-level cluster input interconnect scheme without bandwidth limitation	11855974	7408383
453.	Actel Corporation	Sram cell controlled by flash memory cell	11740458	7408815
454.	Microsemi SOC Corporation	Architecture and interconnect scheme for programmable logic circuits	11299248	7409664
455.	Microsemi Corporation	Apparatus and method for striking a fluorescent lamp	11868229	7411360
456.	Microsemi Corporation	Voltage regulation loop with variable gain control for inverter circuit	11600002	7414371
457.	Actel Corporation	Integrated multi-function analog circuit including voltage, current, and temperature monitor and gate-driver circuit blocks	11562049	7414427
458.	Actel Corporation	Non-volatile memory configuration scheme for volatile-memory-based programmable circuits in an fpga	11465899	7414428
459.	Actel Corporation	Programmable system on a chip for power-supply voltage and current monitoring and control	11932661	7421605
460.	Actel Corporation	System-on-a-chip integrated circuit including dual-function analog and digital inputs	11551857	7423451
461.	Microsemi Corporation	Slope compensation circuit	11154488	7425819
462.	Actel Corporation	Tileable field-programmable gate array architecture	10066539	7426665
463.	Actel Corporation	Apparatus and method for initializing an integrated circuit device and activating a function of the device once an input power supply has reached a threshold voltage	11844581	7426667
464.	Actel Corporation	Non-volatile memory cells in a field programmable gate array	11868694	7430137
465.	Actel Corporation	Multi-level routing architecture in a field programmable gate array having transmitters and receivers	11531375	7432733

	Assignee	Patent Title	Serial No.	Patent No.
466.	Actel Corporation	Apparatus for interfacing and testing a phase locked loop in a field programmable gate array	10235245	7434080
467.	Microsemi Corporation	High temperature, high voltage sic void-less electronic package	11973573	7435993
468.	Actel Corporation	Voltage-and temperature-compensated rc oscillator circuit	11467475	7439818
469.	Actel Corporation	Apparatus and method of error detection and correction in a radiation-hardened static random access memory field-programmable gate array	11859497	7443191
470.	Actel Corporation	Non-volatile look-up table for an fpga	11929287	7443198
471.	Actel Corporation	Sram bus architecture and interconnect to an fpga	11688688	7444456
472.	Actel Corporation	Non-volatile look-up table for an fpga	11929287	7446378
473.	Actel Corporation	Programmable system on a chip for temperature monitoring and control	11774676	7446560
474.	Microsemi Corporation	Charge limited high voltage switch circuits	11737172	7449841
475.	Microsemi Semiconductor (U.S.) Inc.	Method and apparatus for longitudinal balance calibration	10717365	7453896
476.	Actel Corporation	Reprogrammable metal-to-metal antifuse employing carbon-containing antifuse material	10784903	7459763
477.	Actel Corporation	Face-to-face bonded i/o circuit die and functional logic circuit die system	10955929	7459772
478.	Actel Corporation	Apparatus and method for reducing leakage of unused buffers in an integrated circuit	11185426	7463061
479.	Microsemi Corporation	Method and apparatus to control display brightness with ambient light correction	11023295	7468722
480.	Actel Corporation	Non-volatile two-transistor programmable logic cell and array layout	11927265	7473960
481.	Actel Corporation	Three input field programmable gate array logic circuit configurable as a three input look up table, a d-latch or a d flip-flop	12046160	7477071
482.	Microsemi Corporation	Front side illuminated photodiode with backside bump	11414128	7479401
483.	Actel Corporation	Low-capacitance input/output and electrostatic discharge circuit for protecting an integrated circuit from electrostatic discharge	11677441	7482218
484.	Actel Corporation	Method and apparatus of memory clearing with monitoring ram memory cells in a field programmable gated array	11552482	7482835
485.	Actel Corporation	Delay locked loop for an fpga architecture	11561695	7484113
486.	Actel Corporation	Radiation tolerant sram bit	12045424	7486538
487.	Actel Corporation	Programmable system on a chip	11932462	7487376
488.	Actel Corporation	Non-volatile look-up table for an fpga	11858322	7492182
489.	Actel Corporation	Programmable system on a chip for power-supply voltage and current monitoring and control	11932710	7492183
490.	Actel Corporation	Programmable system on a chip for power-supply voltage and current monitoring and control	11932778	7493506

	Assignee	Patent Title	Serial No.	Patent No.
491.	Actel Corporation	Non-volatile look-up table for an fpga	11858330	7495473
492.	Microsemi Corporation	Junction termination structures for wide-bandgap power devices	11/286144	7498651
493.	Actel Corporation	Flash/dynamic random access memory field programmable gate array	11619547	7499360
494.	Actel Corporation	Non-volatile two-transistor programmable logic cell and array layout	11962615	7501681
495.	Actel Corporation	Clock-generator architecture for a programmable-logic-based system on a chip	11871741	7501872
496.	Microsemi Corporation	Method of fabricating self-aligned silicon carbide semiconductor devices	10997057	7508000
497.	Actel Corporation	Field programmable gate array and microcontroller system-on-a-chip	11187068	7516303
498.	Actel Corporation	Integrated circuit including programmable logic and external-device chip-enable override control	11932901	7521960
499.	Actel Corporation	Non-volatile memory with source-side column select	11961134	7522453
500.	Microsemi Corporation	Spray coating apparatus and fixtures	10845746	7524537
501.	Microsemi Corporation	Split phase inverters for ccfl backlight system	11682242	7525255
502.	Microsemi Corporation	Linearly regulated battery charger	10760126	7525291
503.	Microsemi Corporation	Battery charging and discharging by using a bi-directional transistor	10758952	7528582
504.	Actel Corporation	Address transition detector for fast flash memory device	11833833	7532035
505.	Actel Corporation	Non-volatile two-transistor programmable logic cell and array layout	11303865	7538379
506.	Actel Corporation	Non-volatile two-transistor programmable logic cell and array layout	11927237	7538382
507.	Actel Corporation	Non-volatile look-up table for an fpga	11858341	7538576
508.	Actel Corporation	Circuit and method for supplying programming potential at voltages larger than v_{dss} of programming transistors	12172675	7538598
509.	Actel Corporation	Cyclic redundancy checking of a field programmable gate array having an sram memory architecture	11550336	7543216
510.	Actel Corporation	Field-programmable gate array low voltage differential signaling driver utilizing two complimentary output buffers	12109487	7545166
511.	Actel Corporation	Clock tree network in a field programmable gate array	12105524	7545168
512.	Actel Corporation	Fpga architecture having two-level cluster input interconnect scheme without bandwidth limitation	12173225	7545169
513.	Actel Corporation	Isolation scheme for static and dynamic fpga partial programming	12022921	7548095
514.	Actel Corporation	Parallel programmable antifuse field programmable gate array device (fpga) and a method for programming and testing an antifuse fpga	11837700	7549138
515.	Actel Corporation	Nonvolatile memory integrated circuit having assembly buffer and bit-line driver, and method of operation thereof	11859073	7554860
516.	Microsemi Corporation	Primary side current balancing scheme for multiple ccf lamp operation	11830685	7557517

	Assignee	Patent Title	Serial No.	Patent No.
517.	Actel Corporation	Block level routing architecture in a field programmable gate array	12034555	7557611
518.	Actel Corporation	Block symmetrization in a field programmable gate array	12130876	7557612
519.	Actel Corporation	Sram cell controlled by flash memory cell	12173117	7558112
520.	Actel Corporation	Encryption for a stream file in an fpga integrated circuit	09953580	7558967
521.	Microsemi Corporation	Balancing transformers for multi-lamp operation	11937693	7560875
522.	Actel Corporation	Integrated circuit device having state-saving and initialization feature	12028615	7560952
523.	Actel Corporation	Programmable system on a chip for temperature monitoring and control	12178874	7560954
524.	Microsemi Corporation	Rf power transistor package	11233180	7569927
525.	Microsemi Corporation	Striking and open lamp regulation for ccfl controller	11773611	7569998
526.	Actel Corporation	Non-volatile two-transistor programmable logic cell and array layout	11927282	7573093
527.	Actel Corporation	Volatile data storage in a non-volatile memory cell array	11861504	7573746
528.	Microsemi Corporation	Self aligned process for bjt fabrication	11536581	7579252
529.	Actel Corporation	Architecture for routing resources in a field programmable gate array	11843575	7579868
530.	Actel Corporation	Repeatable block producing a non-uniform routing architecture in a field programmable gate array having segmented tracks	12131258	7579869
531.	Actel Corporation	Clock-generator architecture for a programmable-logic-based system on a chip	11932807	7579895
532.	Actel Corporation	Method for secure delivery of configuration data for a programmable logic device	11185427	7581117
533.	Actel Corporation	Non-volatile programmable memory cell for programmable logic array	11762451	7590000
534.	Actel Corporation	Method for erasing programmable interconnect cells for field programmable gate arrays using reverse bias voltage	11567625	7593268
535.	Microsemi Semiconductor (U.S.) Inc.	Method and apparatus for multi-phy communication without an atm bus master	09844747	7594026
536.	Microsemi Corporation	Broadband energy illuminator	11835930	7601958
537.	Actel Corporation	Programmable system on a chip for power-supply voltage and current monitoring and control	12350419	7603578
538.	Microsemi Semiconductor (U.S.) Inc.	Integrated silicon optical isolator	12122771	7605010
539.	Actel Corporation	Programmable system on a chip	11931772	7613943
540.	Actel Corporation	Programmable logic device adapted to enter a low-power mode	11928428	7616025
541.	Actel Corporation	System-on-a-chip integrated circuit including dual-function analog and digital inputs	12176560	7616026
542.	Actel Corporation	Reconfigurable delta sigma analog-to-digital converter and customized digital filters with embedded flash fpga and flash memory	12022064	7616143

	Assignee	Patent Title	Serial No.	Patent No.
543.	Actel Corporation	Flash-based fpga with secure reprogramming	11463846	7616508
544.	Actel Corporation	Programming method for non-volatile memory and non-volatile memory-based programmable logic device	12024867	7623390
545.	Microsemi Semiconductor (U.S.) Inc.	Method and apparatus for dc feed	09752160	7630490
546.	Actel Corporation	High-voltage dual-polarity i/o p-well pump esd protection circuit	12028692	7633731
547.	Actel Corporation	System for signal routing line aggregation in a field-programmable gate array	11745134	7634753
548.	Microsemi Corporation	Full-bridge and half-bridge compatible driver timing schedule for direct drive backlight system	11526324	7646152
549.	Actel Corporation	Architecture and interconnect scheme for programmable logic circuits	12215118	7646218
550.	Actel Corporation	Esd protection structure for I/O pad subject to both positive and negative voltages	12179243	7659585
551.	Actel Corporation	Quadratic and cubic compensation of sigma-delta d/a and a/d converters	12187541	7659841
552.	Actel Corporation	Flexible carry scheme for field programmable gate arrays	11962922	7663400
553.	Actel Corporation	Mixed signal system-on-a-chip integrated simultaneous multiple sample/hold circuits and embedded analog comparators	12139354	7667631
554.	Microsemi Corporation	Design and fabrication of rugged fred, power mosfet or igbt	11614897	7671410
555.	Actel Corporation	Deglitching circuits for a radiation-hardened static random access memory based programmable architecture	12172860	7672153
556.	Actel Corporation	Apparatus and method for initializing an integrated circuit device and activating a function of the device once an input power supply was reached a threshold voltage	11844569	7673194
557.	Actel Corporation	Non-volatile memory architecture for programmable-logic-based system on a chip	12131377	7675320
558.	Actel Corporation	Programmable logic device with a microcontroller-based control system	12023299	7683660
559.	Actel Corporation	Split gate memory cell for programmable circuit device	12177680	7692972
560.	Actel Corporation	Non-volatile memory array having drain-side segmentation for an fpga device	11961203	7697330
561.	Actel Corporation	Programmable delay line compensated for process, voltage, and temperature	12175399	7701246
562.	Actel Corporation	(N+1) input flip-flop packing with logic in fpga architectures	12360971	7701250
563.	Microsemi Semiconductor (U.S.) Inc.	Optically triggered electro-static discharge protection circuit	12046683	7715162
564.	Microsemi Corporation	Method and apparatus for stacked die package with insulated wire bonds	12269798	7718471
565.	Actel Corporation	Integrated circuit wafer with inter-die metal interconnect lines traversing scribe-line boundaries	11695992	7718512
566.	Microsemi Corporation	Method for producing shock and tamper resistant microelectronic devices	11942572	7723162
567.	Microsemi Corporation	Plastic surface mount large area power device	11542090	7741706
568.	Microsemi Corporation	Coaxial-to-microstrip transitions and manufacturing methods	12038546	7750764

	Assignee	Patent Title	Serial No.	Patent No.
569.	Actel Corporation	Enhanced field programmable gate array	12111660	7755386
570.	Microsemi Corporation	Dual-slope brightness control for transfective displays	11145877	7755595
571.	Microsemi Corporation	Linearly regulated battery charger	12430426	7759906
572.	Microsemi Corporation	Battery charging and discharging by using a bi-directional transistor	12434416	7759907
573.	Actel Corporation	Isolated-nitride-region non-volatile memory cell and fabrication method	11152019	7768056
574.	Actel Corporation	Radiation-tolerant flash-based fpga memory cells	12124661	7768317
575.	Actel Corporation	Radiation tolerant sram bit	12345388	7768810
576.	Actel Corporation	Single event transient mitigation and measurement in integrated circuits	12352512	7772874
577.	Actel Corporation	Logic module including versatile adder for fpga	12101589	7772879
578.	Actel Corporation	Apparatus for testing a phrase-locked loop in a boundary scan enabled device	12198249	7774665
579.	Microsemi Corporation	System and method for manipulating real-time video playback time-synchronized with millimeter wave imagery	12110508	7781717
580.	Microsemi Corporation	Voltage level shifter	12422060	7782115
581.	Actel Corporation	Circuits and methods for testing fpga routing switches	12205656	7804321
582.	Microsemi Corporation	Distributed amplifier with negative feedback	12391144	7804362
583.	Microsemi Semiconductor (U.S.) Inc.	Method and apparatus for ringing	09752167	7813500
584.	Actel Corporation	Inverting flip-flop for use in field programmable gate arrays	12360948	7816946
585.	Microsemi Semiconductor (U.S.) Inc.	Light activated silicon controlled switch	12061085	7821016
586.	Actel Corporation	Push-pull fpga cell	12334059	7839681
587.	Microsemi Corporation	Schottky barrier diode (sbd) and its off-shoot merged pn/schottky diode or junction barrier schottky (jbs) diode	12365083	7851881
588.	Microsemi Corporation	Using a triangular waveform to synchronize the operation of an electronic circuit	11955477	7852019
589.	Microsemi Corporation	System for deployment of a millimeter wave concealed object detection system using an outdoor passively illuminated structure	12135698	7858938
590.	Actel Corporation	Programmable system on a chip for power-supply voltage and current monitoring and control	12555492	7859302
591.	Microsemi Corporation	Method and apparatus to compensate for supply voltage variations in a pwm-based voltage regulator	11866262	7868603
592.	Microsemi Corporation	Multiple camera imaging method and system for detecting concealed objects	11835905	7873182
593.	Actel Corporation	Single event transient mitigation and measurement in integrated circuits	12828821	7884636
594.	Actel Corporation	Pld providing soft wakeup logic	12340358	7884640

	Assignee	Patent Title	Serial No.	Patent No.
595.	Actel Corporation	Flash-based fpga with secure reprogramming	12569084	7885122
596.	Actel Corporation	Field programmable gate array and microcontroller system-on-a-chip	12345409	7886130
597.	Actel Corporation	Programmable logic device adapted to enter a low-power mode	11928445	7886261
598.	Actel Corporation	Non-volatile two-transistor programmable logic cell and array layout	12359481	7898018
599.	Actel Corporation	Reduced-edge radiation-tolerant non-volatile transistor memory cells	12196978	7906805
600.	Microsemi Corporation	Fine tuned multiple output converter	12340717	7906868
601.	Microsemi Corporation	Boost converter with adaptive coil peak current	11961176	7906943
602.	Microsemi Semiconductor (U.S.) Inc.	Protection circuit for a subscriber line interface circuit	12046642	7907381
603.	Actel Corporation	Isolated-nitride-region non-volatile memory cell and fabrication method	12823369	7910436
604.	Actel Corporation	Power-up and power-down circuit for system-on-a-chip integrated circuit	11467279	7911226
605.	Microsemi Corporation	Voltage level shifter for arbitrary input signals	12840996	7911255
606.	Actel Corporation	Non-volatile two-transistor programmable logic cell and array layout	12417189	7915665
607.	Actel Corporation	Method and apparatus for universal program controlled bus architecture	12915454	7915918
608.	Microsemi Corporation	Coaxial-to-microstrip transitions	12788328	7915981
609.	Microsemi Corporation	Automatic gain control technique for current monitoring in current-mode switching regulators	11084892	7919952
610.	Actel Corporation	Circuits and methods for testing fpga routing switches	12860004	7919977
611.	Actel Corporation	Field programmable gate array including a non-volatile user memory and method for programming	11336396	7919979
612.	Actel Corporation	Programmable logic device with a microcontroller-based control system	12701068	7924051
613.	Actel Corporation	Field programmable gate array architecture having cmos network-based input interconnect	12361835	7924052
614.	Actel Corporation	Clustered field programmable gate array architecture	12362844	7924053
615.	Microsemi Corporation	Inter-stage matching network to enhance common mode stability	12446311	7924092
616.	Actel Corporation	Push-pull memory cell configured for simultaneous programming of n-channel and p-channel non-volatile transistors	12343308	7929345
617.	Microsemi Corporation	Balancing transformers for multi-lamp operation	12497401	7932683
618.	Actel Corporation	Staggered i/o groups for integrated circuits	12142118	7932744
619.	Actel Corporation	Inverting flip-flop for use in field programmable gate arrays	12879306	7932745
620.	Actel Corporation	Programmable system on a chip	12535814	7937601

	Assignee	Patent Title	Serial No.	Patent No.
621.	Actel Corporation	Error-detecting and correcting fpga architecture	11829335	7937647
622.	Microsemi Corporation	Method and apparatus for stacked die package with insulated wire bonds	12731420	7939928
623.	Actel Corporation	Delay locked loop for an fpga architecture	12337201	7941685
624.	Actel Corporation	(N+1) input flip-flop packing with logic in fpga architectures	12717315	7944238
625.	Microsemi Corporation	Split phase inverters for CCFL backlight system	12430715	7952298
626.	Actel Corporation	Non-volatile two-transistor programmable logic cell and array layout	12370828	7956404
627.	Microsemi Corporation	RF power transistor package	12492858	7956455
628.	Microsemi Corporation	Integrated multi-transformer	12404971	7956491
629.	Microsemi Corporation	Full-bridbe and half-bridge compatible driver timing schedule for direct drive backlight system	12638889	7965046
630.	Microsemi Corporation	Direct coupled balancer drive for floating lamp structure	12363806	7977888
631.	Microsemi Corporation	Method and apparatus for modifying right half-plane zero in a cascaded dc-dc buck-boost converter	12405255	7977928
632.	Actel Corporation	Enhanced field programmable gate array	12794279	7977970
633.	Microsemi Corporation	Balancing arrangement with reduced amount of balancing transformers	12363807	7990072
634.	Microsemi Semiconductor (U.S.) Inc.	Method and apparatus for multi-phy communication without an atm bus master	12546486	7996557
635.	Microsemi Corporation	Flexible diode package and method of manufacturing	12589682	8003446
636.	Microsemi Semiconductor (U.S.) Inc.	Bootstrap supply for switched mode power converter	12190907	8004122
637.	Microsemi Corporation	Single led string lighting	12365901	8008864
638.	Microsemi Corporation	Arrangement suitable for driving floating ccfl based backlight	12363805	8008867
639.	Microsemi Semiconductor (U.S.) Inc.	Method of forming a light activated silicon controlled switch	12882640	8012775
640.	Microsemi Semiconductor (U.S.) Inc.	Method and apparatus for accessing variable sized blocks of data	10261126	8015258
641.	Microsemi Corporation	Integrated circuit with flexible planar leads	12315741	8018042
642.	Microsemi Corporation	Ccfl controller with multi-function terminal	12469702	8022635
643.	Microsemi Corporation	Multi-layer thick-film rf package	12941401	8034666
644.	Microsemi Corporation	Passive outdoor millimeter wave illuminator	12118960	8035091
645.	Microsemi Semiconductor (U.S.) Inc.	Methods of counter-doping collector regions in bipolar transistor	12061264	8035196
646.	Actel Corporation	Programmable logic device with programmable wakeup pins	12340440	8040151
647.	Microsemi Corporation	Integrated circuit with flexible planer leads	11728624	8058719

	Assignee	Patent Title	Serial No.	Patent No.
648.	Microsemi Corporation	Structural system for optimizing performance of a millimeter wave concealed object detection system	12136000	8061599
649.	Microsemi Corporation	Four quadrant mosfet based switch	12652045	8063516
650.	Microsemi Corporation	Mirror scanning system	12043246	8079719
651.	Microsemi Semiconductor (U.S.) Inc.	Method and apparatus for power-mode control	11621426	8090095
652.	Microsemi Corporation	Method and apparatus for driving cfl at low burst duty cycle rates	12610327	8093839
653.	Microsemi Corporation	Semiconductor package with embedded magnetic component and method of manufacture	12383468	8094458
654.	Microsemi Corporation	Phase-cut dimming circuit	12404979	8102167
655.	Microsemi Corporation	Edge termination for high voltage semiconductor device	12206954	8110888
656.	Microsemi Corporation	System and method for overlaying computer generated highlights in a display of millimeter wave imagery	12142982	8116520
657.	Actel Corporation	Array and control method for flash based fpga cell	12371483	8120955
658.	Microsemi Corporation	Power supply with standby power	12472539	8143748
659.	Microsemi Semiconductor (U.S.) Inc.	Echo cancellation balance using noise generator and average power detection	12127818	8160240
660.	Microsemi Corporation	Low voltage drop closed loop unidirectional electronic valve	12815496	8169252
661.	Actel Corporation	Single event transient mitigation and measurement in integrated circuits	12361955	8191021
662.	Microsemi Corporation	Battery charging and discharging by using a bi-directional transistor	12838254	8193779
663.	Microsemi Corporation	Systems and methods for building tamper resistant coatings	10941628	8210120
664.	Microsemi Corporation	Millimeter wave imaging method and system to detect concealed objects	11835886	8213672
665.	Microsemi Corporation	Balancing transformers for multi-lamp operation	13084229	8222836
666.	Microsemi Corporation	Method and apparatus to control display brightness with ambient light correction	12336990	8223117
667.	Microsemi Corporation	High voltage high package pressure semiconductor package	12658576	8237171
668.	Microsemi SOC Corporation	Fast carry lookahead circuits	12022721	8244791
669.	Microsemi Corporation	Bus voltage optimizer for switched power converter	12536596	8253395
670.	Microsemi Semiconductor (U.S.) Inc.	Method and apparatus for metallic line testing of a subscriber line	12263628	8259908
671.	Microsemi Semiconductor (U.S.) Inc.	Circuit and method for temperature and process independent transimpedance amplifier arrangement	12861919	8263927
672.	Microsemi Semiconductor (U.S.) Inc.	A trench capacitor for high voltage processes and method of manufacturing the same	12172532	8269265
673.	Microsemi Corporation	Method of fabricating a light-emitting device (LED) utilizing powder/pelletized homogeneously mixed molding compound	11079323	8269409
674.	Microsemi Corporation	Less expensive high power plastic surface mount package	12590377	8274164

	Assignee	Patent Title	Serial No.	Patent No.
675.	Microsemi Corporation	Method and system for dynamically altering the analysis methodology of millimeter wave imagery in response to the range and direction of motion of a subject	12131539	8306272
676.	Microsemi Semiconductor (U.S.) Inc.	Method and apparatus for detecting ring trip precursors	12537926	8325908
677.	Microsemi Corporation	Pulse transformer driver	12416363	8345779
678.	Microsemi Corporation	Integrated backlight control system	12815441	8350488
679.	Microsemi Corporation	Striking and open lamp regulation for CCFL controller	12501700	8358082
680.	Microsemi Corporation	Non-dissipative start up circuit	12960504	8363436
681.	Microsemi Semiconductor (U.S.) Inc.	Method and apparatus for battery switching during ringing	12537937	8363822
682.	Microsemi Corporation	Rf switchable balun	12903387	8368481
683.	Microsemi Semiconductor (U.S.) Inc.	Method and apparatus for ringing	12879968	8369510
684.	Microsemi Corporation	Distributed architecture voltage controlled backlight driver	12895875	8378586
685.	Microsemi Semiconductor (U.S.) Inc.	Method and apparatus for controlling ringing voltage	12537914	8379839
686.	Microsemi Semiconductor (U.S.) Inc.	Method and apparatus for dynamically scheduling ringing signals	12576941	8406414
687.	Microsemi Semiconductor (U.S.) Inc.	Overvoltage protection with power sink	12550816	8406417
688.	Microsemi Corporation	Rf package	12938974	8410601
689.	Microsemi Corporation	Software methodology for autonomous concealed object detection and threat assessment	12338807	8437566
690.	Microsemi Semiconductor (U.S.) Inc.	Method and apparatus for shared positive protection	12550782	8442213
691.	Microsemi Corporation	High-speed comparator	13012645	8456196
692.	Microsemi Corporation	Dimming input suitable for multiple dimming signal types	13017128	8482218
693.	Microsemi Corporation	Converter with crossover frequency responsive to switching frequency	12960505	8493049
694.	Microsemi Corporation	Inclusion of assessment data in millimeter wave concealed object detection systems	12338780	8547274
695.	Microsemi Corporation	Silicon carbide semiconductor	12658328	8587107
696.	Microsemi Semiconductor (U.S.) Inc.	Shared protection scheme for multiple variable batteries	12885906	8705728
697.	Microsemi Corporation	Security system housing	29283233	D571244
698.	Microsemi Corporation	Pedestal mount for security camera	29306748	D618269
699.	Microsemi Corporation	Security system housing	29306747	D634229
700.	Microsemi Corporation	Security system portal	29385710	D662221
701.	Microsemi Corporation	Hand held scanner	29385707	D663634

	Assignee	Patent Title	Serial No.	Patent No.
702.	Microsemi Corporation	Mobile security system housing	29379049	D678792

U.S. Trademarks and Trademark Applications:

	Owner	Trademark	Serial No.	Reg. No.
1.	Microsemi SOC Corp.	ACTEL FUSION	78478264	3325752
2.	Microsemi SOC Corp.	LIBERO	78058935	2650743
3.	Microsemi SOC Corp.	SMARTFUSION	77734222	3832805
4.	Microsemi SOC Corp.	ACTEL	77592693	3711187
5.	Microsemi SOC Corp.	IGLOO	77212539	3369085
6.	Microsemi SOC Corp.	F FUSION	77212534	3381505
7.	Microsemi SOC Corp.	PROASIC PLUS	76531635	2839980
8.	Microsemi SOC Corp.	F	76522140	2824875
9.	Microsemi SOC Corp.	PROASIC	76496592	2808307
10.	Microsemi SOC Corp.	PROASIC PLUS	76496590	2808306
11.	Microsemi SOC Corp.	AXCELERATOR	76416140	2884794
12.	Microsemi SOC Corp.	ACTEL	74122814	1778715
13.	Microsemi Corporation	TRRUST-PURGE	85206155	4339143
14.	Microsemi Corporation	TRRUST-STOR	85206146	4238276
15.	Microsemi Corporation	DAZL!	85088755	3940357
16.	Microsemi Corporation	ALL CLEAR	85032977	3994943
17.	Microsemi Corporation	SAFESCREEN	85032771	3893800
18.	Microsemi Corporation	DESIGN ONLY	78584208	3156477
19.	Microsemi Corporation	T-MAX	78302971	2962199
20.	Microsemi Corporation	ARMOR	77818811	4238027
21.	Microsemi Corporation	STRIKING THE BALANCE!	77684813	3685786
22.	Microsemi Corporation	ANALOG TO DIGITAL, CUSTOM TO STANDARD...STRIKING THE BALANCE!	77684802	3804265
23.	Microsemi Corporation	MOBILESCAN	77531833	3826561
24.	Microsemi Corporation	GEN 2ADVANTAGE	77531816	3764316
25.	Microsemi Corporation	GEN 2	77531804	3614139
26.	Microsemi Corporation	HIPOE	77518682	3586204

	Owner	Trademark	Serial No.	Reg. No.
27.	Microsemi Corporation	SCANPORT	77481855	3614956
28.	Microsemi Corporation	DESIGN ONLY	76627604	3400428
29.	Microsemi Corporation	POWER MOS IV	76404088	2683474
30.	Microsemi Corporation	POWER MOS 7	76153383	2552196
31.	Microsemi Corporation	MMSM	76110512	3177332
32.	Microsemi Corporation	APT	76104815	2603685
33.	Microsemi Corporation	POWERMITE 3	75912836	2856178
34.	Microsemi Corporation	MICROSEMI	75696235	2335792
35.	Microsemi Corporation	THUNDERBOLT IGBT	75449083	2296881
36.	Microsemi Corporation	POWER MOS V	75201291	2166537
37.	Microsemi Corporation	PLASTIC PLUS	74629083	2079692
38.	Microsemi Corporation	APT	74285445	1753737
39.	Microsemi Corporation	DESIGN ONLY	73715905	1534019