

PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

EPAS ID: PAT3992750

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	SPANSION LLC	06/01/2015
RECEIVING PARTY DATA		
Name:	Cypress Semiconductor Corporation	
Street Address:	198 Champion Court	
City:	San Jose	
State/Country:	CALIFORNIA	
Postal Code:	95134	
PROPERTY NUMBERS Total: 1		
	Property Type	Number
	Application Number:	15060249
CORRESPONDENCE DATA		
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ATTORNEY DOCKET NUMBER:	SPN12033C1	
NAME OF SUBMITTER:	STOYCHO D. DRAGANOFF	
SIGNATURE:	/StoychoDDraganoff#56181/	
DATE SIGNED:	08/04/2016	
Total Attachments: 147		
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CORPORATE ASSIGNMENT

SPANSION LLC, a corporation duly organized under and pursuant to the laws of **DELAWARE** and having its principal place of business at **915 DE GUIGNE DRIVE, SUNNYVALE, CALIFORNIA 94085-3836** (hereafter referred to as the “Assignor”), is the owner by respective assignment of the Issued Patents and Pending Patent Applications set forth in **SCHEDULE A**, attached hereto (hereafter referred to as the “Patents and Applications”).

CYPRESS SEMICONDUCTOR CORPORATION, a corporation duly organized under and pursuant to the laws of **DELAWARE** and having its principal place of business at **198 CHAMPION COURT, SAN JOSE, CALIFORNIA 95134-1709** (hereafter referred to as the “Assignee”), desires to acquire the entire right, title, and interest in and to the Patents and Applications.

THEREFORE, in consideration of the sum of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, the Assignor hereby sells, assigns, transfers, and sets over to the Assignee, its successors, legal representatives and assigns the entire right, title and interest in and to the Patents and Applications and all inventions described and claimed therein, the right to file any and all classes and types of applications on the inventions (including utility patents, design patents, inventor’s certificates, utility models, and similar rights) for Letters Patent of the United States or other countries, and the entire right, title and interest in and to any and all classes and types of applications for Letters Patent of the United States or other countries claiming priority to the Patents and Applications, including continuations, divisions, continuations-in-part, and continuing prosecution applications of the Patents and Applications, and reissues, renewals, revisions, substitutions, extensions, and all results of oppositions, reexaminations, supplemental examinations and other review procedures (including ex parte reexaminations, inter partes review, post grant review, and covered business method review) of the Patents or Letters Patents, and any and all Letters Patent or Patents of the United States of America and all foreign countries that may be granted therefor and thereon, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by the Assignee, for its own use and behalf and the use and behalf of its successors, legal representatives, and assigns, to the full end of the term or terms for which the Patents and Applications have been granted, and for which Letters Patent or Patents may be

granted, as fully and entirely as the same would have been held and enjoyed by the Assignor had the present sale and assignment not been made.

By its undersigned representative, the Assignor agrees:

- a. to execute all papers necessary in connection with the Patents and Applications and any continuations, divisions, continuations-in-part, and continuing prosecution applications of the Patents and Applications, and reissues, renewals, revisions, substitutions, extensions, and all results of oppositions, reexaminations, supplemental examinations and other review procedures (including ex parte reexaminations, inter partes review, post grant review, and covered business method review) of the Patents and Applications in any country, and also to execute separate assignments in connection with such application as the Assignee may deem necessary or expedient;
- b. to execute all papers necessary in connection with any interference that may be declared concerning the Patents and Applications or any continuations, divisions, continuations-in-part, and continuing prosecution applications of the Patents and Applications, and reissues, renewals, revisions, substitutions, extensions, and all results of oppositions, reexaminations, supplemental examinations and other review procedures (including ex parte reexaminations, inter partes review, post grant review, and covered business method review) thereof, and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference; and
- c. to perform all affirmative acts and take all lawful oaths that may be necessary or required to obtain a grant of a valid patent to the Assignee on the Patents and Applications and on any continuations, divisions, continuations-in-part, and continuing prosecution applications of the Patents and Applications, and reissues, renewals, revisions, substitutions, extensions, and all results of oppositions, reexaminations, supplemental examinations and other review procedures (including ex parte reexaminations, inter partes review, post grant review, and covered business method review) of the Patents and Applications in any country, and for the procurement, maintenance, enforcement, and defense of Letters Patent or Patents for the inventions described and claimed therein, without charge to the Assignee, its successors, legal representatives, and assigns, but at the cost and expense of the Assignee, its successors, legal representatives, and assigns.

The Assignor hereby covenants that, at the time of execution and delivery of the present assignment, the Assignor is the sole and lawful owner of the entire right, title, and interest in and to the inventions set forth in the Patents and Applications identified above, and has the full and complete right, title, and interest to convey the entire interest herein assigned, and that it has not executed, and will not execute, any agreement in conflict therewith.

The undersigned has reviewed the documents in the Patents and Applications identified above, and, to the best of undersigned's knowledge and belief, title is in the Assignor identified

above.

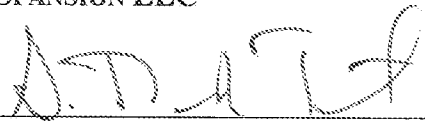
The undersigned is empowered to sign this assignment on behalf of the Assignor.

I hereby declare that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further, that these statements are made with the knowledge that willful false statements, and the like so made, are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the Patents and Applications, corresponding applications or any patents issuing thereon.

IN WITNESS WHEREOF, executed by the Assignor's undersigned representative on the date following the undersigned's name.

SPANSION LLC

By:


Thad Trent

Title: Secretary

Date: June 1, 2015

ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California

County of Santa Clara

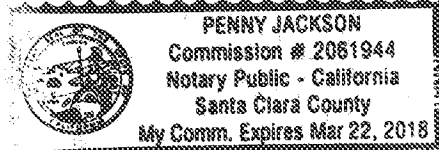
On June 1, 2015 before me, Penny Jackson, Notary
(insert name and title of the officer)

personally appeared Thad Trent
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/~~she~~/they executed the same in his/~~her~~/their authorized capacity(ies), and that by his/~~her~~/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature Penny Jackson (Seal)



ASSIGNMENT SCHEDULE A

PATENT OR APPL NO.	SPANSON REFERENCE NO.	COUNTRY	FILING DATE	ISSUE DATE	TITLE
2001280952	AF01073AU	Australia	07/31/2001		WORD LINE DECODING ARCHITECTURE IN A FLASH MEMORY
2001280932	AF01081US	Australia	08/11/2000	05/08/2001	BURST READ WORDLINE BOOSTING
2001266701	AF01085AU	Australia	06/04/2001		METHOD TO REDUCE CAPACITIVE LOADING IN FLASH MEMORY X- DECODER FOR ACCURATE VOLTAGE CONTROL AT WORDLINES AND SELECT LINES
2002239301	AF01090AU	Australia	11/14/2001		I/O PARTITIONING AND METHODOLOGY TO REDUCE BAND-TO-BAND TUNNELING CURRENT DURING ERASE
2002230944	AF01096AU	Australia	12/12/2001		SOFT PROGRAM AND SOFT PROGRAM VERIFY OF THE CORE CELLS IN FLASH MEMORY ARRAY
2003228271	AF01116WO	Australia	03/03/2003	10/17/2007	METHOD FOR MULTI-BIT FLASH READS USING DUAL DYNAMIC REFERENCES
26183/00	AF02593AU	Australia	01/18/2000		SHARED MEMORY APPARATUS AND METHOD FOR MULTIPROCESSOR SYSTEMS
2002245464	G0259AU	Australia	02/19/2002		FLASH MEMORY DEVICE WITH INCREASE OF EFFICIENCY DURING AN APDE (AUTOMATIC PROGRAM DISTURB AFTER ERASE) PROCESS
2003211090	G0863US	Australia	02/14/2003		OVERERASE CORRECTION METHOD
2003219707	G1255AU	Australia	02/05/2003		PARTIAL PAGE PROGRAMMING OF MULTI LEVEL FLASH
56618/01	P-2448WO	Australia	05/03/2001		PROGRAMMING OF NONVOLATILE MEMORY CELLS
2002363046	P-4006AU	Australia	10/24/2002		METHOD FOR ERASING A MEMORY CELL
2003222282	SE0002AU	Australia	03/11/2003		SYSTEM AND METHOD OF ERASE VOLTAGE CONTROL DURING MULTIPLE SECTOR ERASE OF A FLASH MEMORY DEVICE
1297534	AF01085AT	Austria	06/04/2001	03/14/2007	METHOD TO REDUCE CAPACITIVE LOADING IN FLASH MEMORY X- DECODER FOR ACCURATE VOLTAGE CONTROL AT WORDLINES AND SELECT LINES
1226586	AF01086AT	Austria	09/29/2000	06/18/2003	A WORD LINE TRACKING STRUCTURE FOR USE IN AN ARRAY OF FLASH EEPROM MEMORY CELLS
60043444.3	D833AT	Austria	08/29/2000	10/15/2009	1 TRANSISTOR FOR EEPROM APPLICATION
01910464.5	E0264	Austria	02/07/2001		TRIMMING METHOD FOR WORDLINE BOOSTER TO MINIMIZE PROCESS VARIATION OF BOOSTED WORDLINE VOLTAGE
09166120	FMA13-0289AT	Austria	08/21/2006		PRESALER AND BUFFER
01309289.5	P-2448US CON	Austria	11/01/2001		PROGRAMMING AND ERASING METHODS FOR A REFERENCE CELL OF AN NROM ARRAY
20010117103	H1979BR	Brazil	08/13/2001		MEMORY CELL
2,367,065	AF02593CA	Canada	01/18/2000		SHARED MEMORY APPARATUS AND METHOD FOR MULTIPROCESSOR SYSTEMS
ZL00814522.9	AF01002CN	China	10/07/2000	04/20/2005	LOW VOLTAGE READ CASCODE FOR 2V/3V AND DIFFERENT BANK COMBINATIONS WITHOUT METAL OPTIONS FOR A SIMULTANEOUS OPERATION FLASH MEMORY DEVICE
00814408.7	AF01006CN	China	10/09/2000		REDUNDANT DUAL BANK ARCHITECTURE FOR A SIMULTANEOUS OPERATION FLASH MEMORY
ZL01805509.5	AF01036CN	China	02/07/2001	11/30/2005	WORDLINE DRIVER FOR FLASH MEMORY READ MODE
455629	AF01054CN	China	10/16/2000	10/16/2000	HIGH TEMPERATURE OXIDE DEPOSITION PROCESS FOR FABRICATING AN ONO FLOATING-GATE ELECTRODE IN A TWO BIT EEPROM DEVICE
ZL01806877.4	AF01064CN	China	03/20/2001	04/20/2005	METHOD FOR FORMING HIGH QUALITY MULTIPLE THICKNESS OXIDE LAYERS USING HIGH TEMPERATURE DESCUM
ZL01806969.X	AF01066CN	China	03/20/2001	02/01/2006	METHOD FOR FORMING HIGHQUALITY MULTIPLE THICKNESS OXIDE LAYERS BY REDUCING DESCUM INDUCED DEFECTS
ZL01804591.X	AF01072CN	China	02/05/2001	10/18/2006	VOLTAGE BOOST LEVEL CLAMPING CIRCUIT FOR A FLASH MEMORY
ZL01814914.6	AF01073CN	China	07/31/2001	03/14/2007	WORD LINE DECODING ARCHITECTURE IN A FLASH MEMORY
ZL01806325.X	AF01075CN	China	03/12/2001	09/27/2006	MULTIPLE BANK SIMULTANEOUS OPERATION FOR A FLASH MEMORY
01810500.9	AF01076CN	China	05/21/2001	10/21/2009	BURST ARCHITECTURE FOR A FLASH MEMORY
200810135828.2	AF01076CN DIV	China	07/15/2008	04/10/2013	BURST ARCHITECTURE FOR A FLASH MEMORY
ZL01813382.7	AF01078CN	China	07/17/2001	09/13/2006	BURST READ INCORPORATING OUTPUT BASED REDUNDANCY
ZL01811070.3	AF01085CN	China	06/04/2001	07/12/2006	METHOD TO REDUCE CAPACITIVE LOADING IN FLASH MEMORY X- DECODER FOR ACCURATE VOLTAGE CONTROL AT WORDLINES AND SELECT LINES
ZL00813967.9	AF01086CN	China	09/29/2000	07/27/2005	A WORD LINE TRACKING STRUCTURE FOR USE IN AN ARRAY OF FLASH EEPROM MEMORY CELLS
z01806239.3	AF01088CN	China	03/05/2001	04/20/2005	SINGLE TUNNEL GATE OXIDATION PROCESS FOR FABRICATING NAND FLASH MEMORY
366895	AF01090CN	China	11/14/2001	12/26/2007	I/O PARTITIONING AND METHODOLOGY TO REDUCE BAND-TO-BAND TUNNELING CURRENT DURING ERASE
02814417.1	AF01094CN	China	03/14/2002	11/04/2009	VOLTAGE BOOST CIRCUIT USING SUPPLY VOLTAGE DETECTION TO COMPENSATE FOR SUPPLY VOLTAGE VARIATION IN READ MODE VOLTAGES
374910	AF01096CN	China	12/12/2001	01/30/2008	SOFT PROGRAM AND SOFT PROGRAM VERIFY OF THE CORE CELLS IN FLASH MEMORY ARRAY
01819608.X	AF01102CN	China	08/07/2001	08/19/2009	SIMULTANEOUS FORMATION CHARGE STORAGE AND BITLINE TO WORDLINE ISOLATION
03808311.6	AF01116CN	China	03/03/2003	10/28/2009	SYSTEM AND METHOD FOR MULTI-BIT FLASH READS USING DUAL DYNAMIC REFERENCES
320166	AF01124CN	China	12/11/2002	04/18/2007	MONOS DEVICE HAVING BURIED METAL SILICIDE BIT LINE
328863	AF01132CN	China	01/21/2003	06/06/2007	HARD MASK PROCESS FOR MEMORY DEVICE WITHOUT BITLINE SHORTS
352780	AF01134CN	China	01/21/2003	10/17/2007	METHOD OF MAKING MEMORY WORDLINE HARD MASK EXTENSION
323601	AF01137CN	China	02/14/2003	05/09/2007	MEMORY MANUFACTURING PROCESS WITH BITLINE ISOLATION
03819817.7	AF01165CN	China	06/10/2003		COLUMN-DECODING AND PRECHARGING IN A FLASH MEMORY DEVICE

ASSIGNMENT SCHEDULE A

PATENT OR APPL NO.	SPANSION REFERENCE NO.	COUNTRY	FILING DATE	ISSUE DATE	TITLE
200480017247.9	AF01169CN	China	05/21/2004	10/21/2009	MEMORY WITH A CORE-BASED VIRTUAL GROUND AND DYNAMIC REFERENCE SENSING SCHEME
674356	AF01186CN	China	01/08/2004	09/22/2010	CHARGE-TRAPPING MEMORY ARRAYS RESISTANT TO DAMAGE FROM CONTACT HOLE FORMATION
200480012016.9	AF01209CN	China	04/13/2004	11/12/2008	METHOD FOR REDUCING SHORT CHANNEL EFFECTS IN MEMORY CELLS AND RELATED STRUCTURE
200480040446.1	AF01214CN	China	12/17/2004		EFFICIENT USE OF WAFER AREA WITH DEVICE UNDER THE PAD APPROACH
200480040892.2	AF01220CN	China	12/17/2004	02/13/2009	STRUCTURE AND METHOD FOR LOW VSS RESISTANCE AND REDUCED DIBL IN A FLOATING GATE MEMORY CELL
200580022719.4	AF01232CN	China	04/29/2005		BOND PAD STRUCTURE FOR COPPER METALLIZATION HAVING INCREASED RELIABILITY AND METHOD FOR FABRICATING SAME
200480042988.2	AF01240CN	China	03/26/2004	04/28/2010	ABORT CIRCUIT FOR MLC PROGRAMMING
200480043296.X	AF01241CN	China	04/13/2004		NEW COMMAND FOR SECTOR PROTECTION
200480043290.2	AF01248CN	China	04/21/2004	05/05/2010	NON-VOLATILE SEMICONDUCTOR DEVICE AND METHOD FOR AUTOMATICALLY RECOVERING ERASE FAILURE IN THE DEVICE
200680027637.3	AF01285CN	China	07/17/2006		PROGRAM/ERASE WAVESHAPING CONTROL TO INCREASE DATA RETENTION OF A MEMORY CELL
101023539	AF01306CN	China	06/30/2005	08/24/2011	SWITCHABLE MEMORY DIODE- A NEW MEMORY DEVICE
200580027947.0	AF01320CN	China	08/08/2005		SYSTEMS AND METHODS FOR ADJUSTING PROGRAMMING THRESHOLDS OF POLYMER MEMORY CELLS
201310228388.6	AF01320CN DIV	China	08/08/2005		SYSTEMS AND METHODS FOR ADJUSTING PROGRAMMING THRESHOLDS OF POLYMER MEMORY CELLS
200580027937.7	AF01321US	China	08/08/2005		POLYMER MEMORY DEVICE WITH VARIABLE PERIOD OF RETENTION TIME
744679	AF01329CN	China	08/30/2004	03/02/2011	ERASING METHOD FOR NONVOLATILE STORAGE, AND NONVOLATILE STORAGE
200480044696.2	AF01338CN	China	10/26/2004	08/19/2009	METHOD OF SETTING INFORMATION OF NON-VOLATILE MEMORY AND NON-VOLATILE MEMORY
200580022786.6	AF01361CN	China	06/30/2005		METHOD OF IMPROVING ERASE VOLTAGE DISTRIBUTION FOR A FLASH MEMORY ARRAY HAVING DUMMY WORDLINES
200580026253.5	AF01365CN	China	04/29/2005		FLASH MEMORY UNIT AND METHOD OF PROGRAMMING A FLASH MEMORY DEVICE
200480042780.0	AF01372CN	China	02/19/2004	08/19/2009	CURRENT-VOLTAGE CONVERTER CIRCUIT AND CONTROL METHOD THEREOF
200480042774.5	AF01376CN	China	02/20/2004	12/07/2011	A SEMICONDUCTOR MEMORY STORAGE DEVICE AND ITS REDUNDANT METHOD
ZL200480042775.X	AF01377CN	China	02/20/2004	11/06/2013	A SEMICONDUCTOR MEMORY STORAGE DEVICE AND ITS REDUNDANCY CONTROL METHOD
200580026447.5	AF01379CN	China	04/29/2005	11/02/2011	FLOATING GATE MEMORY CELL
200480042812.7	AF01380CN	China	02/20/2004	03/03/2010	A SEMICONDUCTOR MEMORY STORAGE DEVICE AND ITS CONTROL METHOD
756499	AF01383CN	China	09/20/2005	04/06/2011	READ APPROACH FOR MULTI-LEVEL VIRTUAL GROUND MEMORY
200580018934.7	AF01386CN	China	02/11/2005		ERASE ALGORITHM FOR MULTI-LEVEL BIT FLASH MEMORY
841560	AF01390CN	China	12/20/2005	09/14/2011	MULTI-LEVEL ONO FLASH PROGRAM ALGORITHM FOR THRESHOLD WIDTH CONTROL
200480044077.3	AF01402CN	China	07/30/2004	10/28/2009	NEW CASCADE AND SENSE-AMPLIFIER
200480044076.9	AF01403CN	China	07/30/2004	03/13/2009	MLC WRITE BUFFER CIRCUITRY
200480043688.6	AF01412CN	China	07/29/2004	09/01/2010	METHOD FOR SETTING INFORMATION IN NON-VOLATILE STORAGE DEVICE, NON-VOLATILE STORAGE DEVICE AND SYSTEM USING THE SAME
200480043591.5	AF01416CN	China	05/12/2004		IMPROVED NEGATIVE DECODING
200480043574.1	AF01417CN	China	05/11/2004		HIGH SPEED BOOST OPERATION
757179	AF01422CN	China	05/11/2004	04/06/2011	SEMICONDUCTOR DEVICE AND PROGRAM METHOD
200480043332.2	AF01423CN	China	05/11/2004	05/11/2004	MULTI BIT PROGRAMMING FOR VIRTUAL GROUND ARRAY
200480043511.6	AF01425CN	China	05/11/2004		IMPROVED APPARATUS FOR ADVANCED SECTOR PROTECTION (1)
200480043544.0	AF01427CN	China	05/12/2004	04/14/2010	IMPROVED SLATCH AND THE LAYOUT
789501	AF01438CN	China	12/24/2004	06/08/2011	METHOD AND APPARATUS FOR APPLYING BIAS TO A STORAGE DEVICE
200480044854.4	AF01439CN	China	11/30/2004		NON-VOLATILE SELECT GATE IN NAND FLASH MEMORY
200480044104.7	AF01441CN	China	07/29/2004		METHOD FOR INITIALIZING NON-VOLATILE STORAGE DEVICE, AND NOT-VOLATILE STORAGE DEVICE
689912	AF01443CN	China	05/11/2004	10/13/2010	CARRIER FOR MULTILAYER SEMICONDUCTOR DEVICE AND PROCESS FOR MANUFACTURING MULTILAYER SEMICONDUCTOR DEVICE
200480044895.3	AF01445CN	China	12/28/2004	12/28/2004	SONOS WITH USE OF SWITCH GATE, WITHOUT BURIED DIFFUSION LAYER BITLINE
642574	AF01446CN	China	05/20/2004	06/16/2010	Process for Producing Semiconductor Device and Semiconductor Dvice
637334	AF01451CN	China	04/24/2006	06/09/2011	THE FORMATION METHOD OF AN ARRAY SOURCE LINE IN NAND FLASH
200580019314.5	AF01453CN	China	02/11/2005		METHOD AND SYSTEMS FOR HIGH WRITE PERFORMANCE IN MULTI- BIT FLASH MEMORY DEVICES
200480044857.8	AF01454CN	China	11/30/2004	06/27/2012	NONVOLATILE STORAGE AND ITS MANUFACTURING METHOD
200480044770.0	AF01455CN	China	11/30/2004		NON-VOLATILE SEMICONDUCTOR MEMORY DEVICE
200680012958.6	AF01459CN	China	04/24/2006	06/13/2012	SELF-ALIGNED STI SONOS
200480044407.9	AF01463CN	China	09/30/2004		SEMICONDUCTOR DEVICE AND DATA WRITING METHOD
200680002239.6	AF01467CN	China	01/12/2006	03/30/2011	MEMORY DEVICE HAVING TRAPEZOIDAL BITLINES AND METHOD OF FABRICATING SAME
200480044750.3	AF01468CN	China	10/29/2004	08/19/2009	SEMICONDUCTOR DEVICE AND METHOD OF FABRICATING THE SAME
200480044853.X	AF01470CN	China	11/30/2004	03/21/2012	SEMICONDUCTOR DEVICE AND CONTROL METHOD THEREOF
200480044729.3	AF01479CN	China	12/28/2004	09/05/2012	SEMICONDUCTOR DEVICE AND OPERATION CONTROL METHOD FOR SAME

ASSIGNMENT SCHEDULE A

PATENT OR APPL NO.	SPANSION REFERENCE NO.	COUNTRY	FILING DATE	ISSUE DATE	TITLE
200680015533.0	AF01482CN	China	05/26/2006		PAGE BUFFER ARCHITECTURE FOR PROGRAMMING, ERASING AND READING NANOSCALE RESISTIVE MEMORY DEVICES
201210105258.9	AF01482CN DIV	China	05/26/2006		PAGE BUFFER ARCHITECTURE FOR PROGRAMMING, ERASING AND READING NANOSCALE RESISTIVE MEMORY DEVICES
200580043866.X	AF01485CN	China	12/20/2005		METHOD OF PROGRAMMING, READING AND ERASING MEMORY-DIODE IN A MEMORY-DIODE ARRAY
691427	AF01491CN	China	11/10/2005	10/27/2010	DIODE ARRAYS ARCHITECTURE FOR ADDRESSING NANOSCALE RESISTIVE MEMORY ARRAYS
200580038928.8	AF01500CN	China	11/10/2005		PROTECTION OF ACTIVE LAYERS OF MEMORY CELLS DURING PROCESSING OF OTHER ELEMENTS
101088126	AF01523CN	China	12/20/2005	01/18/2012	SENSE AMPLIFIER WITH HIGH VOLTAGE SWING
201110358517.4	AF01523CN DIV	China	12/20/2005		SENSE AMPLIFIER WITH HIGH VOLTAGE SWING
200680007399.X	AF01524CN	China	03/07/2006	07/04/2012	DECODER FOR MEMORY DEVICE
200480044704.3	AF01645CN	China	10/26/2004		NON-VOLATILE MEMORY DEVICE
200580046970.4	AF01653CN	China	01/24/2005	03/06/2009	SEMICONDUCTOR DEVICE AND METHOD OF FABRICATING THE SAME
200680010627.9	AF01665CN	China	04/04/2006		SPLIT GATE MULTI-BIT MEMORY CELL
200680033325.3	AF01668CN	China	09/08/2006	05/02/2012	HIGH PERFORMANCE FLASH MEMORY DEVICE CAPABLE OF HIGH DENSITY DATA STORAGE
847573	AF01669CN	China	09/07/2006	09/07/2011	MULTI-BIT FLASH MEMORY DEVICE HAVING IMPROVED PROGRAM RATE
200480044666.1	AF01688CN	China	10/25/2004		IMPROVEMENT METHOD OF DATA RETENTION OF SEMICONDUCTOR MEMORY
200480044889.8	AF01691CN	China	12/24/2004	12/19/2012	SYNCHRONIZATION TYPE STORAGE DEVICE AND CONTROLLING METHOD THEREOF
101171683	AF01695CN	China	04/26/2006	02/12/2014	MULTI-CHIP MODULE AND METHOD OF MANUFACTURE
201310319901.2	AF01695CN DIV	China	04/26/2006		MULTI-CHIP MODULE AND METHOD OF MANUFACTURE
101138089	AF01696CN	China	01/31/2005	02/09/2011	LAYERED SEMICONDUCTOR DEVICE AND LAYERED SEMICONDUCTOR DEVICE MANUFACTURING METHOD
741645	AF01698CN	China	01/27/2005	02/16/2011	SEMICONDUCTOR DEVICE, ADDRESS ASSIGNMENT METHOD, AND VERIFY METHOD
200580048775.5	AF01707CN	China	03/31/2005		STACKED-TYPE SEMICONDUCTOR DEVICE AND METHOD OF MANUFACTURING THE SAME
685418	AF01709CN	China	03/22/2006	10/06/2010	VARIABLE BREAKDOWN CHARACTERISTIC DIODE
200580049592.5	AF01728CN	China	04/27/2005		SEMICONDUCTOR DEVICE AND MANUFACTURING METHOD THEREFOR
200580049950.2	AF01729CN	China	05/30/2005		IMPROVEMENT OF DATE RETENTION CHARACTERISTICS OF SONOS FLASH MEMORY
200680012623.4	AF01730CN	China	03/24/2006		MULTI CHIP MODULE AND METHOD OF MANUFACTURE
200680016641.X	AF01741CN	China	05/25/2006		READ-ONLY MEMORY ARRAY WITH DIELECTRIC BREAKDOWN PROGRAMMABILITY
200680033453.8	AF01746CN	China	09/06/2006		METHOD FOR FORMING SPACERS BETWEEN BITLINES IN A VIRTUAL GROUND MEMORY ARRAY AND REALTED STRUCTURE
200680015957.7	AF01775CN	China	04/26/2006		RESISTIVE MEMORY DEVICE WITH IMPROVED DATA RETENTION AND REDUCED POWER
794220	AF01777CN	China	10/06/2006	06/15/2011	METHOD FOR MANUFACTURING A SEMICONDUCTOR COMPONENT USING A SACRIFICIAL MASKING STRUCTURE
101203954	AF01792CN	China	06/28/2005	09/28/2011	SEMICONDUCTOR DEVICE AND FABRICATION METHOD THEREOF
200580050283.X	AF01802CN	China	06/28/2005	02/02/2011	SEMICONDUCTOR DEVICE AND CONTROL METHOD THEREOF
815563	AF01810CN	China	03/16/2007	07/27/2011	VERTICAL EEPROM DEVICE
845197	AF01852CN	China	07/07/2006	09/28/2011	INTEGRATED CIRCUIT TEST SOCKET
200680040776.X	AF01853CN	China	10/06/2006		MEMORY ARRAY ARRANGED IN BANKS AND SECTORS AND ASSOCIATED DECODERS
201410409924.7	AF01853CN DIV	China	10/06/2006		MEMORY ARRAY ARRANGED IN BANKS AND SECTORS AND ASSOCIATED DECODERS
200780012951.9	AF01907CN	China	04/05/2007	02/01/2012	MULTI MEDIA CARD WITH HIGH STORAGE CAPACITY
200780018096.2	AF01954CN	China	04/05/2007		MEMORY CELL ARRAY WITH LOW RESISTANCE COMMON SOURCE AND HIGH CURRENT DRIVABILITY
101449370	AF02071CN	China	05/21/2007	06/26/2013	MEMORY SYSTEM WITH SWITCH ELEMENT
1286359	AF02136CN	China	04/05/2007	10/16/2013	REDUCTION OF LEAKAGE CURRENT AND PROGRAM DISTURBS IN FLASH MEMORY DEVICES
201310403394.0	AF02136CN DIV	China	04/05/2007		REDUCTION OF LEAKAGE CURRENT AND PROGRAM DISTURBS IN FLASH MEMORY DEVICES
200780014867.0	AF02137CN	China	04/05/2007	11/28/2012	METHODS FOR ERASING AND PROGRAMMING MEMORY DEVICES
200780016294.5	AF02138CN	China	04/05/2007		METHODS FOR ERASING MEMORY DEVICES AND MULTI-LEVEL PROGRAMMING MEMORY DEVICE
1411492	AF02146CN	China	04/05/2007	06/04/2014	FLASH MEMORY PROGRAMMING AND VERIFICATION WITH REDUCED LEAKAGE CURRENT
201410172165.7	AF02146CN DIV	China	04/05/2007		FLASH MEMORY PROGRAMMING AND VERIFICATION WITH REDUCED LEAKAGE CURRENT
03109522.4	AF02208CN	China	04/08/2003	06/06/2007	NONVOLATILE SEMICONDUCTOR MEMORY AND
ZL03136844.1	AF02212CN	China	05/21/2003	09/06/2006	NONVOLATILE SEMICONDUCTOR MEMORY DEVICE
ZL03107621.1	AF02214CN	China	03/21/2003	02/15/2006	SEMICONDUCTOR MEMORY DEVICE
100358048	AF02219CN	China	09/12/2003	12/26/2007	SEMICONDUCTOR MEMORY FOR FUNCTION WELL
ZL03153352.3	AF02220CN	China	08/11/2003	12/19/2007	NONVOLATILE SEMICONDUCTOR MEMORY
ZL03156893.9	AF02221CN	China	09/11/2003	08/06/2008	MEMORY CIRCUIT HAVING
CN100351950C	AF02222CN	China	08/12/2003	11/28/2007	NONVOLATILE SEMICONDUCTOR MEMORY
CN 1685444B	AF02226CN	China	02/27/2003	07/06/2011	NONVOLATILE SEMICONDUCTOR MEMORY
03824062.9	AF02229CN	China	02/28/2003		FLASH MEMORY AND MEMORY CONTROL
200380100622.1	AF02230CN	China	12/17/2003	07/09/2008	SEMICONDUCTOR DEVICE AND TEST METHOD
03824185.4	AF02232CN	China	03/11/2003		MEMORY DEVICE
200380100721	AF02233CN	China	12/17/2003	01/21/2012	NONVOLATILE MEMORY AND METHOD AND WRITE METHOD OF THE SAME

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CN100442394C	AF02234CN	China	11/19/2003	12/10/2008	SEMICONDUCTOR MEMORY DEVICE AND CONTROL
1558423	AF02236CN	China	01/21/2004	04/28/2010	SEMICONDUCTOR MEMORY
03826339.4	AF02238CN	China	04/24/2003	12/02/2009	NONVOLATILE SEMICONDUCTOR MEMORY
100470676	AF02241CN	China	06/06/2003	03/18/2009	SEMICONDUCTOR STORAGE DEVICE AND SEMICONDUCTOR STORAGE DEVICE BIT LINE SELECTION METHOD
200880023742.9	AF02453CN	China	05/09/2008		SELF ALIGNED NARROW STORAGE ELEMENTS FOR ADVANCED MEMORY DEVICE
200880025232.5	AF02465CN	China	07/21/2008	03/13/2013	SYNCHRONOUS MEMORY DEVICES AND CONTROL METHODS FOR PERFORMING BURST WRITE OPERATIONS
ZL200880016146.8	AF02477CN	China	03/14/2008	07/09/2014	DIVISION-BASED SENSING AND PARTITIONING OF ELECTRONIC MEMORY
201180049007.7	AF03209CN	China	04/10/2013		STITCH BUMP STACKING DESIGN FOR OVERALL PACKAGE SIZE REDUCTION FOR MULTIPLE STACK
201180041602.6	AF03219CN	China	06/29/2011		METHOD AND SYSTEM FOR THIN MULTI CHIP STACK PACKAGE WITH FILM ON WIRE AND COPPER WIRE
03820714.1	AF04012US DIV	China	08/29/2003	03/05/2008	SEMICONDUCTOR MEMORY DEVICE
CN101048872B	AF04020US	China	10/19/2005	08/24/2011	Non-volatile memory and pseudo-sram based on resonant tunneling concept
20081147128	AF04022US	China	08/20/2008		CMOS LOGIC COMPATIBLE NON-VOLATILE MEMORY CELL STRUCTURE, OPERATION, AND ARRAY CONFIGURATION
201280070114.2	AF04035CN	China	12/18/2012		ACOUSTIC PROCESSING UNIT INTERFACE
201280070112.3	AF04036CN	China	12/18/2012		ARITHMETIC LOGIC UNIT ARCHITECTURE
ZL00813303.4	C656497CN	China	08/31/2000	03/09/2005	TUNGSTEN GATE MOS TRANSISTOR AND MEMORY CELL AND METHOD OF MAKING SAME
ZL 00811545.1	C725497CN	China	08/01/2000	11/03/2004	CIRCUIT IMPLEMENTATION TO QUENCH BIT LINE LEAKAGE CURRENT IN PROGRAM AND AUTO PROGRAM DISTURB MODE IN FLASH EPROM USING RESISTOR SOURCE LOAD
ZL00812395.0	D833CN	China	08/29/2000	11/30/2005	1 TRANSISTOR FOR EEPROM APPLICATION
ZL00815128.8	D838CN	China	10/24/2000	12/01/2004	SOLID-SOURCE DOPING FOR SOURCE/DRAIN OF FLASH MEMORY
ZL00811313.0	D844CN	China	07/14/2000	12/29/2004	RAMPED GATE TECHNIQUE FOR SOFT PROGRAMMING TO TIGHTEN THE VI DISTRIBUTION
00817240.4	D853CN	China	12/05/2000		METHOD TO PROVIDE A REDUCED CONSTANT E-FIELD DURING ERASE OF EEPROMS FOR RELIABILITY IMPROVEMENT
ZL00812201.6	D877CN	China	07/17/2000	12/29/2004	INTEGRATED CIRCUIT HAVING INCREASED GATE COUPLING CAPACITANCE
ZL00814181.9	D894CN	China	09/29/2000	01/26/2005	METHOD OF MANUFACTURING A SEMICONDUCTOR DEVICE WITH REDUCED ARC LOSS IN PERIPHERAL CIRCUITRY REGION
ZL00818639.1	D958CN	China	12/13/2000	04/06/2005	NOVEL NITRIDATION BARRIERS FOR NITRIDATED TUNNEL OXIDE FOR CIRCUITRY FOR FLASH TECHNOLOGY AND FOR LOCOS/STI ISOLATION
ZL00811367.X	DA01016CN	China	07/14/2000	12/01/2004	METHOD FOR PROVIDING A DOPANT LEVEL FOR POLYSILICON FOR FLASH MEMORY DEVICES
00811962.7	E0251CN	China	07/14/2000	10/21/2009	FLASH MEMORY ARCHITECTURE EMPLOYING THREE LAYER METAL INTERCONNECT
ZL01805426.9	E0264CN	China	02/07/2001	07/27/2005	TRIMMING METHOD FOR WORDLINE BOOSTER TO MINIMIZE PROCESS VARIATION OF BOOSTED WORDLINE VOLTAGE
01809611.5	E0302CN	China	05/01/2001	08/22/2008	UNIFORM BITLINE STRAPPING OF NON-VOLATILE MEMORY CELL
ZL01806324.1	E0370CN	China	03/12/2001	04/06/2005	A DUAL SPACER PROCESS NON-VOLATILE MEMORY DEVICES
ZL01810229.8	E0462CN	China	05/21/2001	06/01/2005	DUAL PORTED CAMS FOR SIMULTANEOUS OPERATION FLASH MEMORY
01805671.7	E1030CN	China	02/07/2001	08/05/2009	TEMPERATURE COMPENSATED BIAS GENERATOR
01812247.7	F0004CN	China	06/08/2001		AUTOMATED DETERMINATION AND DISPLAY OF THE PHYSICAL LOCATION OF A FAILED CELL IN AN ARRAY OF MEMORY CELLS
331606	F0257CN	China	08/07/2001	06/20/2007	METHOD AND SYSTEM FOR EMBEDDED CHIP ERASE VERIFICATION
02827260.9	F0258CN	China	12/17/2002		METHOD AND APPARATUS FOR SOFT PROGRAM VERIFICATION IN A MEMORY DEVICE
455657	F0260CN	China	12/12/2001	12/31/2008	METHOD AND APPARATUS FOR BOOSTING BITLINES FOR LOW VCC READ
464256	F0262CN	China	12/17/2002	01/28/2009	METHOD AND APPARATUS FOR SOFT PROGRAM VERIFICATION IN A MEMORY DEVICE
02827250.1	F0272CN	China	12/17/2002	11/12/2008	CHARGE INJECTION
414908	F0282CN	China	09/30/2002	07/30/2008	DOUBLE DENSED CORE GATES IN SONOS FLASH MEMORY
02819075.0	F0283CN	China	09/27/2002	12/26/2008	SALICIDED GATE FOR VIRTUAL GROUND ARRAYS
ZL01817852.9	F0499CN	China	08/06/2001	10/12/2005	A SOURCE SIDE BORON IMPLANTING AND DIFFUSING DEVICE ARCHITECTURE FOR DEEP SUBSTANCE 0.18UM FLASH MEMORY TECHNOLOGIES
ZL01817027.7	F0932CN	China	08/06/2001	01/03/2007	SOURCE SIDE BORON IMPLANT AND DRAIN SIDE MDD IMPLANT FOR DEEP SUB 0.18 MICRON FLASH MEMORY
100571326	FMA13-00305CN	China	09/15/2006	12/16/2009	IMAGE PROCESSING APPARATUS AND METHOD FOR IMAGE RESIZING MATCHING DATA SUPPLY SPEED
100547554	FMA13-00310CN	China	08/20/2007	10/07/2009	ERROR PROCESSING METHOD AND INFORMATION PROCESSING APPARATUS
100550588	FMA13-00312CN	China	10/30/2007	10/14/2009	POWER SUPPLY CIRCUIT, POWER SUPPLY CONTROL CIRCUIT, AND POWER SUPPLY CONTROL METHOD
101071984	FMA13-00313CN	China	05/10/2007	01/19/2011	CONTROLLER FOR DC-DC CONVERTER
101656477	FMA13-00313CN DIV	China	05/10/2007	10/03/2012	DC-DC CONVERTER AND CONTROLLER OF THE DC-DC CONVERTER
101106326	FMA13-00314CN	China	07/13/2007	06/09/2010	DC-DC CONVERTER
101154892	FMA13-00315CN	China	09/28/2007	06/23/2010	CONTROL CIRCUIT OF SYNCHRONOUS RECTIFICATION TYPE POWER SUPPLY UNIT, SYNCHRONOUS RECTIFICATION TYPE POWER SUPPLY UNIT AND CONTROL METHOD THEREOF
101087105	FMA13-00317CN	China	05/11/2007	03/14/2012	DC-DC CONVERTER AND CONTROL FOR DC-DC CONVERTER

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101145731	FMA13-00319CN	China	08/22/2007	07/06/2011	CONTROL CIRCUIT OF POWER SUPPLY UNIT, POWER SUPPLY UNIT AND CONTROL METHOD THEREOF
101247078	FMA13-00320CN	China	02/15/2008	05/30/2012	DC-DC CONVERSION CIRCUIT, DC-DC CONVERSION CONTROL CIRCUIT, AND DC-DC CONVERSION CONTROL METHOD
101247075	FMA13-00321CN	China	02/13/2008	06/09/2010	POWER SOURCE CIRCUIT, POWER SOURCE CONTROL CIRCUIT AND POWER SOURCE CONTROL METHOD
101252356	FMA13-00322CN	China	01/28/2008	10/12/2011	FRACTIONAL FREQUENCY DIVIDER PLL DEVICE AND CONTROL METHOD THEREOF
100585996	FMA13-00323CN	China	09/14/2007	01/27/2010	METHOD AND CIRCUIT FOR CONTROLLING DC-DC CONVERTER
101636906	FMA13-00335CN	China	03/14/2007	01/02/2013	OUTPUT CIRCUIT
1251411	FMA13-00344US	China	09/12/2003	04/12/2006	PHASELOCKED LOOP CLOCK GENERATING CIRCUIT AND CLOCK GENERATING METHOD
101247081	FMA13-00347CN	China	01/24/2008	05/02/2012	DETECTION CIRCUIT AND POWER SOURCE SYSTEM
101247082	FMA13-00350CN	China	01/24/2008	05/02/2012	DETECTION CIRCUIT
201310537550.2	FMA13-00357CN	China	06/18/2007		STEP-UP/STEP-DOWN TYPE DC-DC CONVERTER, AND CONTROL CIRCUIT AND CONTROL METHOD OF THE SAME
101552556	FMA13-00366CN	China	12/12/2008	02/13/2013	DC-DC CONVERTER, DC-DC CONVERTER CONTROL METHOD, AND ELECTRONIC DEVICE
1183740	FMA13-0042CN	China	06/28/1997	01/05/2005	OSCILLATOR AND PHASELOCKED LOOP USING THE SAME
1086892	FMA13-0042US	China	06/28/1997	06/26/2002	OSCILLATOR AND PHASE-LOCKED LOOP EMPLOYING SAME
101714819	FMA13-00432US	China	09/17/2009	12/04/2013	OUTPUT-VOLTAGE CONTROL APPARATUS, OUTPUT-VOLTAGE CONTROL METHOD, AND ELECTRONIC APPARATUS (AS AMENDED)
101753020	FMA13-00471US CON	China	11/16/2009	06/05/2013	OUTPUT VOLTAGE CONTROLLER, ELECTRONIC DEVICE, AND OUTPUT VOLTAGE CONTROL METHOD
1584120	FMA13-00472US	China	11/11/2008	02/11/2015	METHOD OF DETECTING AN OPERATING CONDITION OF AN ELECTRIC STEPPER MOTOR
200710109427.5	FMA13-00491JP	China	06/18/2007		STEP-UP/STEP-DOWN TYPE DC-DC CONVERTER, AND CONTROL CIRCUIT AND CONTROL METHOD OF THE SAME
201410645436.6	FMA13-00503CN	China	03/14/2011		SEMICONDUCTOR MEMORY
1546287	FMA13-00503US	China	01/24/2013		SEMICONDUCTOR MEMORY
ZL201110174962.5	FMA13-00511US DIV	China	06/22/2011	09/17/2014	OSCILLATION CIRCUIT
201110180133.8	FMA13-00514CN	China	06/24/2011		OUTPUT SWITCHING CIRCUIT
201110240124.3	FMA13-00516US	China			SWITCHING REGULATOR
201110220791.5	FMA13-00517US	China	07/27/2011		SWITCHING REGULATOR
201110461288.9	FMA13-00518US	China	12/30/2011		SEMICONDUCTOR DEVICE
201110261652.7	FMA13-00519US	China	08/29/2011		LEVEL SHIFT CIRCUIT AND SEMICONDUCTOR DEVICE
201210055671.9	FMA13-00525CN	China	02/28/2012		MOTOR CONTROL DEVICE, CONTROL PROGRAM THEREFOR, AND METHOD FOR THE CONTROL
201110461257.3	FMA13-00526CN	China	12/26/2011		CONTROL CIRCUIT, ELECTRONIC DEVICE, AND METHOD FOR CONTROLLING POWER SUPPLY
201210177950.2	FMA13-00528US CON	China	05/29/2012		POWER SUPPLY DEVICE, CONTROL CIRCUIT, ELECTRONIC DEVICE AND CONTROL METHOD FOR POWER SUPPLY
201210275497.9	FMA13-00529US	China	07/31/2012		A/D CONVERTER
201210274218.7	FMA13-00531US	China	08/03/2012		SEMICONDUCTOR DEVICE AND VOLTAGE DIVIDER
201210310346.2	FMA13-00532CN	China	08/22/2012		CLOCK DATA RECOVERY CIRCUIT AND CLOCK DATA RECOVERY METHOD
101026334	FMA13-00533US	China	06/15/2006	05/22/2013	POWER SOURCE CONTROL CIRCUIT, POWER SUPPLY DEVICE, AND CONTROL METHOD FOR THE SAME
100483914	FMA13-00539US	China	03/04/2002	04/29/2009	OVERVOLTAGE PROTECTOR FOR ELECTRIC POWER SYSTEM, AC/DC CONVERTER AND DC/DC CONVERTER COMPOSED OF THE SAME ELECTRIC POWER SYSTEM
1240035	FMA13-00543CN	China	11/28/2002	02/01/2006	SEMICONDUCTOR DEVICE EQUIPPED WITH SERIES TRANSMISSION CIRCUIT
100376082	FMA13-00544CN	China	03/26/2002	03/19/2008	PLL CIRCUIT MODE SWITCHING METHOD AND PLL CIRCUIT MODE CONTROL CIRCUIT
1240178	FMA13-00551US	China	12/20/2000	02/01/2006	BIPOLAR SUPPLY VOLTAGE GENERATOR AND ITS SEMICONDUCTOR DEVICE
100574074	FMA13-00556US	China	06/19/2006	12/23/2009	DC-DC CONVERTER, AND ITS CONTROL CIRCUIT AND METHOD
101043151	FMA13-00561US	China	09/18/2006	07/20/2011	CIRCUIT AND METHOD FOR CONTROLLING DC-DC CONVERTER
101018013	FMA13-00562US	China	06/19/2006	08/10/2011	CURRENT-CONTROLLED DC-DC CONVERTER, CONTROL CIRCUIT AND CONTROL METHOD FOR THE SAME
100566162	FMA13-00563CN	China	08/30/2006	12/02/2009	CONTROL CIRCUIT OF POWER SUPPLY AND CONTROL METHOD OF THE POWER SUPPLY
200610112382.2	FMA13-00564US	China	08/31/2006		ELECTRONIC DEVICE INCORPORATING SYSTEM POWER SUPPLY UNIT AND METHOD FOR SUPPLYING POWER SUPPLY VOLTAGE
101145699	FMA13-00565US	China	09/14/2007	01/12/2011	POWER SUPPLY SYSTEM AND METHOD FOR CONTROLLING OUTPUT VOLTAGE
101034850	FMA13-00566US	China	10/11/2006	01/19/2011	DC-DC CONVERTER, CONTROL CIRCUIT THEREOF, CONTROL METHOD THEREOF, AND POWER SUPPLY UNIT
101039067	FMA13-00569US	China	09/27/2006	08/31/2011	CONTROL CIRCUIT OF POWER SUPPLY, POWER SUPPLY AND CONTROL METHOD THEREOF
200610086904.6	FMA13-00570US	China	02/22/2006		RECONFIGURABLE CIRCUIT
101247051	FMA13-00573CN	China	02/13/2008	08/22/2012	POWER SUPPLY CIRCUIT, POWER SUPPLY CONTROL CIRCUIT, AND POWER SUPPLY CONTROL METHOD
201310329567.9	FMA13-00574CN	China	07/31/2013		ADJUSTING APPARATUS AND ADJUSTMENT METHOD
1168212	FMA13-0093US DIV	China	08/18/2000	09/22/2004	FREQUENCY MEASUREMENT CIRCUIT
1238951	FMA13-0122US	China	03/07/2002	01/25/2006	DC-DC CONVERTER POWER SOURCE CIRCUIT, METHOD FOR CONTROLLING DC-DC CONVERTER AND METHOD FOR CONTROLLING POWER SOURCE CIRCUIT
1251400	FMA13-0129US	China	05/17/2002	04/12/2006	OPERATION AMPLIFIER WITH DEVIATION OFFSET FUNCTION
1197163	FMA13-0132CN	China	03/15/2002	04/13/2005	NON-VOLATILE SEMICONDUCTOR STORAGE DEVICE
100576351	FMA13-0132CN DIV	China	03/15/2002	12/30/2009	NONVOLATILE SEMICONDUCTOR MEMORY DEVICES

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1246951	FMA13-0136US	China	05/29/2002	03/22/2006	DC/DC CONVERTER CONTROL CIRCUIT AND DC/DC CONVERTER SYSTEM
405451	FMA13-0147CN	China	01/10/2003	07/23/2008	LIQUID DISPLAY DEVICE AND SIGNAL TRANSMITTING SYSTEM
1235182	FMA13-0147US	China	01/10/2003	01/04/2006	INTEGRATED CIRCUIT FOR ELIMINATING CUMULATION OF DUTY RATIO ERROR
1278277	FMA13-0158US	China	02/25/2003	10/04/2006	FINGER MOBILE DETECTION METHOD AND APPTS. THEREOF
100397441	FMA13-0164US	China	05/21/2003	06/25/2008	SEMICONDUCTOR DEVICE, DISPLAY DEVICE AND SIGNAL TRANSMISSION SYSTEM
1225840	FMA13-0169US	China	05/20/2003	11/02/2005	CIRCUIT FOR FREQUENCY SYNTHESIZER
100521542	FMA13-0172CN	China	12/26/2002	07/29/2009	SIGNADELTA MODULATOR OF PLL CIRCUIT
1266841	FMA13-0177US DIV2	China	12/24/2003	07/26/2006	SPREAD SPECTRUM CLOCK GENERATING CIRCUIT
100334455	FMA13-0185US	China	04/10/2003	08/29/2007	PULSE WIDTH MEASURING APPARATUS WITH AUTO-RANGE SETTING FUNCTION
100571040	FMA13-0197CN	China	11/28/2003	12/16/2009	SIGMA-DELTA MODULATOR OF PLL CIRCUIT
101394131	FMA13-0210CN	China	03/29/2005	12/05/2012	SWITCHING REGULATOR CONTROL CIRCUIT, SWITCHING REGULATOR AND SWITCHING REGULATOR CONTROL METHOD
100440096	FMA13-0210US	China	03/29/2005	12/03/2008	SWITCHING REGULATOR CONTROL CIRCUIT, SWITCHING REGULATOR AND SWITCHING REGULATOR CONTROL METHOD
100374868	FMA13-0211US	China	04/22/2005	03/12/2008	CAPACITANCE DIFFERENCE DETECTING CIRCUIT AND MEMS SENSOR
101015124	FMA13-0217US	China	09/08/2004	04/20/2011	PLL FREQUENCY SYNTHESIZER
100530630	FMA13-0224US	China	02/25/2005	08/19/2009	SEMICONDUCTOR DEVICE
200510002822.4	FMA13-0225US	China	01/25/2005		SEMICONDUCTOR DEVICE
100397334	FMA13-0227US	China	03/16/2005	06/25/2008	SEMICONDUCTOR DEVICE
101388239	FMA13-0234CN	China	05/25/2005	05/23/2012	SEMICONDUCTOR MEMORY DEVICE
100477007	FMA13-0234US DIV CON	China	05/25/2005	04/08/2009	SEMICONDUCTOR MEMORY DEVICE
100555872	FMA13-0238CN	China	06/13/2005	10/28/2009	SPREAD SPECTRUM CLOCK GENERATION CIRCUIT AND A METHOD OF CONTROLLING THEREOF
100423424	FMA13-0240US	China	06/17/2005	10/01/2008	MULTIPHASE DC-DC CONVERTER
100456199	FMA13-0241US	China	06/13/2005	01/28/2009	EARLY EFFECT CANCELLING CIRCUIT, DIFFERENTIAL AMPLIFIER, LINEAR REGULATOR, AND EARLY EFFECT CANCELING METHOD
100530917	FMA13-0257US	China	02/24/2006	08/19/2009	DC-DC CONVERTER AND ITS CONTROL METHOD, AND SWITCHING REGULATOR AND ITS CONTROL METHOD
1913363	FMA13-0260US	China	12/08/2005	07/18/2012	SUCCESSIVE APPROXIMATION A/D CONVERTER
100414535	FMA13-0263CN	China	02/17/2006	08/27/2008	RECONFIGURABLE INTEGRATED CIRCUIT DEVICE
1940991	FMA13-0264US	China	02/16/2006	05/12/2010	RECONFIGURABLE ADDRESS GENERATION CIRCUIT FOR IMAGE PROCESSING, AND RECONFIGURABLE LSI COMPRISING THE SAME
101075809	FMA13-0265US	China	12/21/2005	12/22/2010	CLOCK GENERATION CIRCUIT AND METHOD
1885720	FMA13-0266US	China	11/23/2005	05/12/2010	CLOCK GENERATING CIRCUIT AND CLOCK GENERATING METHOD
100514813	FMA13-0273US	China	02/17/2006	07/15/2009	DC-DC CONVERTER AND DC-DC CONVERTER CONTROL METHOD
1929274	FMA13-0276US	China	03/27/2006	05/18/2011	CONTROLLER AND CONTROL METHOD FOR DC-DC CONVERTER
100530916	FMA13-0278US	China	03/17/2006	08/19/2009	STEP-UP TYPE DC-DC CONVERTER AND METHOD FOR CONTROLLING STEP-UP TYPE DC-DC CONVERTER
100461595	FMA13-0279US	China	03/17/2006	02/11/2009	CONTROL CIRCUIT AND CONTROL METHOD FOR DC-DC CONVERTER
100511941	FMA13-0280US	China	03/31/2006	07/08/2009	CONTROL CIRCUIT AND CONTROL METHOD FOR DC-DC CONVERTER
100514815	FMA13-0281US	China	04/27/2006	07/15/2009	CONTROL CIRCUIT FOR DC-DC CONVERTER AND CONTROL METHOD THEREFOR
100520971	FMA13-0282CN	China	09/27/2006	07/29/2009	NON-VOLATILE SEMICONDUCTOR MEMORY DEVICE, ERASE METHOD FOR SAME, AND TEST METHOD FOR SAME
101034387	FMA13-0287US	China	10/25/2006	12/14/2011	RECONFIGURABLE CIRCUIT
101047372	FMA13-0288CN	China	08/30/2006	12/02/2009	PULSE WIDTH MODULATION CIRCUIT
101047380	FMA13-0300CN	China	08/07/2006	09/29/2010	COMMON INPUT/OUTPUT TERMINAL CONTROL CIRCUIT
1992494	FMA13-0302US DIV	China	06/09/2006	07/13/2011	DC-DC CONVERTER AND CONTROL CIRCUIT FOR DC-DC CONVERTER
395811	G0063CN	China	11/14/2001	05/14/2008	ACCURATE VERIFY APPARATUS AND METHOD FOR NOR FLASH MEMORY CELLS IN THE PRESENCE OF HIGH COLUMN LEAKAGE
02810072.7	G0259CN	China	02/19/2002		FLASH MEMORY DEVICE WITH INCREASE OF EFFICIENCY DURING AN APDE (AUTOMATIC PROGRAM DISTURB AFTER ERASE) PROCESS
03817695.5	G0391CN	China	06/10/2003	12/26/2008	BUILT-IN-SELF-TEST (BIST) OF FLASH MEMORY CELLS AND IMPLEMENTATION OF BIST INTERFACE
357578	G0689CN	China	12/11/2002	11/14/2007	SHALLOW TRENCH ISOLATION APPROACH FOR IMPROVED STI CORNER ROUNDING
375132	G0730CN	China	09/24/2003	01/30/2008	METHOD AND SYSTEM FOR REDUCING CONTACT DEFECTS USING NON CONVENTIONAL CONTACT FORMATION METHOD FOR SEMICONDUCTOR CELLS
200480003688.3	G0752CN	China	01/08/2004	02/27/2009	IMPROVED PERFORMANCE IN FLASH MEMORY DEVICES
03807746.9	G0861CN	China	02/14/2003		IMPROVED ERASE METHOD FOR SINGLE SIDED MIRROR OPERATION
03807744.2	G0862CN	China	02/14/2003	04/28/2010	REFRESH SCHEME FOR DYNAMIC PAGE PROGRAMMING
03807742.6	G0864CN	China	02/14/2003	09/09/2009	REFRESH SCHEME FOR DYNAMIC PAGE PROGRAMMING
03825406.9	G0865CN	China	07/10/2003	04/08/2009	MOCVD FORMATION OF Cu ₂ S
ZL03811863.7	G0866CN	China	04/22/2003	04/22/2003	STEPPED PRE-ERASE VOLTAGE FOR MIRRORBIT ERASE
422711	G0871CN	China	07/10/2003	08/27/2008	LATERAL DOPED CHANNEL
03825466.2	G0878CN	China	07/10/2003		A METHOD AND SYSTEM FOR ERASING A NITRIDE MEMORY DEVICE
03803612.6	G1255CN	China	02/05/2003	05/23/2012	PARTIAL PAGE PROGRAMMING OF MULTI LEVEL FLASH
03824885.9	H0297CN	China	07/10/2003	03/21/2012	CONTROL OF MEMORY ARRAYS UTILIZING ZENER DIODE-LIKE DEVICES

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691233	H0325CN	China	09/19/2005	10/27/2010	CONTROL OF MEMORY DEVICES POSSESSING VARIABLE RESISTANCE CHARACTERISTICS
03825408.5	H0343CN	China	07/10/2003	03/03/2010	MOCVD FORMATION OF Cu ₂ S
479416	H0346CN	China	02/11/2005	10/31/2008	IN-SITU SURFACE TREATMENT FOR MEMORY CELL FORMATION
200480006699.7	H0354CN	China	03/01/2004		SPIN ON POLYMERS FOR ORGANIC MEMORY DEVICES
200580017617.3	H0368CN	China	02/11/2005		POLYMER DIELECTRICS FOR ME ARRAY INTERN CONNECT
201410164564.9	H0368CN DIV	China	02/11/2005		POLYMER DIELECTRICS FOR ME ARRAY INTERN CONNECT
652843	H0385CN	China	09/08/2003	07/28/2010	AN ORGANIC MEMORY DEVICE AND METHOD FOR FORMING A MEMORY CELL
200480039780.5	H0416CN	China	09/23/2004	04/17/2009	SIDEWALL FORMATION FOR HIGH DENSITY POLYMER MEMORY ELEMENT ARRAY
791975	H0422CN	China	05/11/2004	06/08/2011	METHOD AND SYSTEM FOR MANUFACTURING POLYMER MEMORY DEVICE IN VIA OPENING
689908	H0423CN	China	09/16/2004	10/13/2010	SELF ASSEMBLY OF CONDUCTING POLYMER FOR FORMATION OF POLYMER MEMORY CELL
03824963.4	H0434CN	China	07/10/2003	09/09/2009	STACKED ORGANIC MEMORY DEVICES AND METHODS OF OPERATING AND FABRICATING
200480015312.4	H0437CN	China	05/11/2004	08/08/2008	PLANAR POLYMER MEMORY DEVICE
200480025672.2	H0442CN	China	05/21/2004		ORGANIC MEMORY DEVICE AND METHODS OF USING AND MAKING THE DEVICE
03824837.9	H0514CN	China	06/10/2003	07/18/2008	NITROGEN OXIDATION TO REDUCE ENCROACHMENT
200480022338.1	H0541CN	China	07/15/2004	08/08/2012	LOW POWER CHARGE PUMP
03825526.X	H0570CN	China	07/24/2003		IMPROVED SYSTEM FOR PROGRAMMING A NON-VOLATILE MEMORY CELL
03825514.6	H0575CN	China	07/24/2003	08/19/2009	IMPROVED PRE-CHARGE METHOD FOR READING A NON-VOLATILE MEMORY CELL ARRAY WITH STAGGERED LOCAL INTERCONNECT STRUCTURE
200480030197.8	H0576CN	China	09/16/2004	04/28/2010	RECESS CHANNEL FLASH ARCHITECTURE FOR REDUCED SHORT CHANNEL EFFECT
200480029724.3	H0577CN	China	09/16/2004		METHOD OF PROGRAMMIN DUAL CELL MEMORY DEVICE TO STORE MULTIPLE DATA STATES PER CELL
200480010297.4	H0587CN	China	03/08/2004		METHOD OF DUAL CELL MEMORY DEVICE OPERATION FOR IMPROVED END-OF-LIFE READ MARGIN
204480011031.1	H0588CN	China	03/08/2004	03/08/2004	IMPROVED METHOD FOR READING A NON-VOLATILE MEMORY CELL ADJACENT TO AN INACTIVE REGION OF A NON-VOLATILE MEMORY CELL ARRAY
844990	H0625CN	China	01/08/2004	09/28/2011	MEMORY DEVICE AND METHOD USING POSITIVE GATE STRESS TO RECOVER OVERERASED CELL
691340	H0626CN	China	09/16/2004	10/27/2010	IMPROVED PERFORMANCE IN FLASH MEMORY DEVICES
200480003682.6	H0671CN	China	01/08/2004	08/26/2009	CASCADE AMPLIFIER CIRCUIT FOR PRODUCING A FAST, STABLE AND ACCURATE BITLINE VOLTAGE
03825310.0	H1203CN	China	07/10/2003	04/08/2009	SELECTION CIRCUIT FOR ACCURATE MEMORY READ OPERATIONS
200480003827.2	H1204CN	China	01/08/2004	06/05/2009	CIRCUIT FOR ACCURATE MEMORY READ OPERATIONS
03825566.9	H1205CN	China	07/24/2003		PECVD SILICON-RICH OXIDE LAYER FOR REDUCED UV CHARGING
382619	H1368CN	China	06/18/2004	03/05/2008	NON-VOLATILE MEMORY DEVICE
200480016228.4	H1414CN	China	06/05/2004		FLASH MEMORY DEVICE
839249	H1415CN	China	10/26/2004	09/14/2011	CIRCUIT FOR FAST AND ACCURATE MEMORY READ OPERATIONS
200480006883.1	H1513CN	China	03/01/2004	03/01/2004	MEMORY CELL STRUCTURE HAVING NITRIDE LAYER WITH REDUCED CHARGE LOSS AND METHOD FOR FABRICATING SAME
2004800255363	H1862CN	China	08/31/2004	12/26/2008	FAST, ACCURATE AND LOW POWER SUPPLY VOLTAGE BOOSTER USING A/D CONVERTER
200480009300.0	H1892CN	China	03/08/2004	10/21/2009	A MEMORY DEVICE WITH A SELF-ASSEMBLED POLYMER FILM AND METHOD OF MAKING THE SAME
02811337.3	H1971CN	China	05/07/2002		FLOATING GATE MEMORY DEVICE USING COMPOSITE MOLECULAR MATERIAL
ZL02812491.X	H1973CN	China	05/07/2002	09/20/2006	MEMORY SWITCH
02811743.3	H1975CN	China	05/07/2002		ORGANIC THIN FILM ZENER DIODES
03821987.5	H1978CN	China	09/08/2003		MEMORY CELL
01823537.9	H1979CN	China	08/13/2001		METHODS AND APPARATUS FOR WORDLINE PROTECTION IN FLASH MEMORY DEVICES
200580014381.8	H1984CN	China	02/11/2005	12/26/2012	POCKET IMPLANT FOR COMPLEMENTARY BIT DISTURB IMPROVEMENT AND CHARGING IMPROVEMENT OF SONOS MEMORY CELL
200480040307.9	H1985CN	China	12/17/2004		POCKET IMPLANT FOR COMPLEMENTARY BIT DISTURB IMPROVEMENT AND CHARGING IMPROVEMENT OF SONOS MEMORY CELL
201010126772.1	H1985CN DIV	China	02/22/2010		METHOD OF FORMING NARROWLY SPACED FLASH MEMORY CONTACT OPENINGS
635824	H1990CN	China	04/29/2005	06/09/2010	BITLINE IMPLANT UTILIZING DUAL POLY
200580015098.7	H1993CN	China	02/11/2005	04/15/2009	NON-CRITICAL COMPLEMENTARY MASKING METHOD FOR POLY-1 DEFINITION IN FLASH MEMORY DEVICE FABRICATION
200680010634.9	H1998CN	China	04/04/2006		USE OF SUPERCRITICAL FLUID TO DRY WAFER AND CLEAN LENS IN IMMERSION LITHOGRAPHY
101467102	H2114CN	China	06/23/2006	01/11/2012	METHOD FOR FORMING A SHALLOW TRENCH ISOLATION STRUCTURE WITH IMPROVED CORNER ROUNDING
357578	P116WO-CN	China	12/11/2002	11/14/2007	METHOD SYSTEM AND CIRCUIT FOR PROGRAMMING A NON-VOLATILE MEMORY ARRAY
200480039400.8	P-5484US	China	10/27/2004		METHOD CIRCUIT AND SYSTEM FOR DETERMINING A REFERENCE VOLTAGE
200480038992.1	P-5487-CN	China	10/27/2004		METHOD CIRCUIT AND SYSTEM FOR DETERMINING A REFERENCE VOLTAGE
200480039234.1	P-5487-CN	China	10/27/2004		THRESHOLD VOLTAGE SHIFT IN NROM CELLS
200610091700.1	P-7632EP	China	04/11/2006		

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PATENT OR APPL NO.	SPANSION REFERENCE NO.	COUNTRY	FILING DATE	ISSUE DATE	TITLE
455864	SE0002CN	China	03/11/2003	03/11/2003	A SYSTEM AND METHOD OF ERASE VOLTAGE CONTROL DURING MULTIPLE SECTOR ERASE OF A FLASH MEMORY DEVICE
201080029411.3	SP09-0001CN	China	12/29/2011		ELECTRONIC DEVICE HAVING A MOLDING COMPOUND INCLUDING A COMPOSITE MATERIAL
201380041113.X	SP09-0030CN	China	05/24/2013		METHOD, APPARATUS, AND MANUFACTURE FOR FLASH MEMORY ADAPTIVE ALGORITHM
201280069204.X	SP09-0056US	China	12/07/2012		HIGH SPEED SERIAL PERIPHERAL INTERFACE MEMORY SUBSYSTEM
201380040574.5	SP09-0058CN	China	07/31/2013		POWER SAVINGS APPARATUS AND METHOD FOR MEMORY DEVICE USING DELAY LOCKED LOOP
201180067812.2	SP10-0007CN	China	12/17/2011		SELF-ALIGNED NAND FLASH SELECT-GATE WORDLINES FOR SPACER DOUBLE PATTERNING
201180067895.5	SP10-0008CN	China	12/19/2011		EDGE ROUNDED FIELD EFFECT TRANSISTORS AND METHODS OF MANUFACTURING
201180067986.9	SP10-0009CN	China	12/19/2011		PROCESS MARGIN ENGINEERING IN CHARGE TRAPPING FIELD EFFECT TRANSISTORS
201180068369.0	SP10-0012CN	China	12/29/2011		MEMORY WITH EXTENDED CHARGE TRAPPING LAYER
201380037766.0	SP11-0015US	China	05/14/2013		SOFT ERROR RESISTANT CIRCUITRY
201310106856.2	SP11-0021CN	China	03/29/2013		APPARATUS AND METHOD FOR A REDUCED PIN COUNT (PRC) MEMORY BUS INTERFACE INCLUDING A READ DATA STROBE SIGNAL
201380020561.1	SP11-0027CN	China	02/08/2013		IMPROVING REDUNDANCY LOADING EFFICIENCY
201310030270.2	SP11-0034US	China	01/25/2013		CONTINUOUS READ BURST SUPPORT AT HIGH CLOCK RATES
201380070070.3	SP11-0042CN	China	12/14/2012		ACOUSTIC PROCESSING UNIT
201380018825.X	SP12-0013CN	China	04/01/2013		ADAPTIVELY PROGRAMMING OR ERASING FLASH MEMORY BLOCKS
201380047005.3	SP12-0017CN	China	07/08/2013		LEAKAGE REDUCING WRITELINE CHARGE PROTECTION CIRCUIT
201380049319.7	SP12-0021CN	China	07/29/2013		BITLENE VOLTAGE REGULATION IN NON-VOLATILE MEMORY
201510087363.8	SP13-0036CN	China	02/25/2015		MEMORY SUBSYSTEM WITH WRAPPED-TO-CONTINUOUS READ
0656628	A938EP	EPO	11/10/1994	04/09/2003	PROGRAMMED REFERENCE
1222663	AF01002EP	EPO	10/07/2000	06/30/2004	LOW VOLTAGE READ CASCODE FOR 2V/3V AND DIFFERENT BANK COMBINATIONS WITHOUT METAL OPTIONS FOR A SIMULTANEOUS OPERATION FLASH MEMORY DEVICE
01918843.2	AF01064EP	EPO	03/20/2001		METHOD FOR FORMING HIGH QUALITY MULTIPLE THICKNESS OXIDE LAYERS BY USING HIGH TEMPERATURE DESCUM
01959947.1	AF01066EP	EPO	03/20/2001		METHOD FOR FORMING HIGH QUALITY MULTIPLE THICKNESS OXIDE LAYERS BY REDUCING DESCUM INDUCED DEFECTS
1344221	AF01073EP	EPO	07/31/2001	11/05/2008	WORD LINE DECODING ARCHITECTURE IN A FLASH MEMORY
1226586	AF01086WO	EPO	09/29/2000	06/18/2003	WORD LINE TRACKING IN WHOLE CHIP
01931109.1	AF01088EP	EPO	03/05/2001		SINGLE TUNNEL GATE OXIDATION PROCESS FOR FABRICATING NAND FLASH MEMORY
02721396.6	AF01094EPC	EPO	03/14/2002		VOLTAGE BOOST CIRCUIT USING SUPPLY VOLTAGE DETECTION TO COMPENSATE FOR SUPPLY VOLTAGE VARIATIONS IN READ MODE VOLTAGES
1415302	AF01096EP	EPO	12/12/2001	12/07/2005	SOFT PROGRAM AND SOFT PROGRAM VERIFY OF THE CORE CELLS IN FLASH MEMORY ARRAY
1338034	AF01102EP	EPO	08/07/2001	01/06/2010	SIMULTANEOUS FORMATION CHARGE STORAGE AND BITLENE TO WORDLINE ISOLATION
1338037	AF01112EP	EPO	11/15/2001	03/30/2011	NON-VOLATILE SONOS SEMICONDUCTOR MEMORY DEVICE
60316931.7	AF01116WO	EPO	03/03/2003		METHOD FOR MULTI-BIT FLASH READS USING DUAL DYNAMIC REFERENCES
02792367.1	AF01124EP	EPO	12/11/2002		MONOS DEVICE HAVING BURIED METAL SILICIDE BIT LINE
1493185	AF01137EP	EPO	02/14/2003	11/11/2009	MEMORY MANUFACTURING PROCESS WITH BITLENE ISOLATION
1665387	AF01182	EPO	05/21/2004	08/13/2008	MEMORY DEVICE HAVING HIGH WORK FUNCTION GATE AND METHOD OF ERASING SAME
04815008.0	AF01214EP	EPO	12/17/2004		EFFICIENT USE OF WAFER AREA WITH DEVICE UNDER THE PAD APPROACH
06786259.9	AF01293EP	EPO	06/30/2006		PREAMORPHIZATION TO MINIMIZE VOID FORMATION
06803004.8	AF01310EP	EPO	09/06/2006		SEMICONDUCTOR MEMORY DEVICE COMPRISING ONE OR MORE INJECTING BILAYER ELECTRODES
1788582	AF01329EP	EPO	08/30/2004	04/28/2010	ERASE METHOD OF A NON-VOLATILE MEMORY DEVICE AND A NON-VOLATILE MEMORY DEVICE
1717816	AF01372	EPO	02/19/2004	12/24/2008	CURRENT-VOLTAGE CONVERTER CIRCUIT AND CONTROL METHOD THEREOF
04713227.9	AF01376EP	EPO	02/20/2004		SEMICONDUCTOR STORAGE DEVICE AND REDUNDANCY METHOD FOR SEMICONDUCTOR STORAGE DEVICE
1720172	AF01377EP	EPO	02/20/2004	06/06/2012	A SEMICONDUCTOR MEMORY STORAGE DEVICE AND ITS REDUNDANCY CONTROL METHOD
1782460	AF01379EP	EPO	04/29/2005	06/01/2011	METHOD FOR FABRICATING A FLOATING GATE MEMORY CELL
1717814	AF01380EP	EPO	02/20/2004	09/19/2012	SEMICONDUCTOR STORAGE DEVICE AND SEMICONDUCTOR STORAGE DEVICE CONTROL METHOD
1788578	AF01432EP	EPO	08/31/2004	05/11/2011	THE SEMICONDUCTOR MEMORY STORAGE DEVICE WHICH CARRIED THE NEGATIVE VOLTAGE GENERATING CIRCUIT
1830366	AF01438EP	EPO	12/24/2004	07/13/2011	BIAS APPLICATION METHOD OF STORAGE AND STORAGE
04808002.2	AF01445EP	EPO	12/28/2004		SONOS WITH USE OF SWITCH GATE, WITHOUT BURIED DIFFUSION LAYER BITLENE
18832929	AF01482EP	EPO	05/26/2006	02/06/2008	PAGE BUFFER ARCHITECTURE FOR PROGRAMMING, ERASING AND READING NANOSCALE RESISTIVE MEMORY DEVICES
1829048	AF01485EP	EPO	12/20/2005	06/15/2011	METHOD OF PROGRAMMING, READING AND ERASING MEMORY-DIODE IN A MEMORY-DIODE ARRAY
1899977	AF01586EP	EPO	06/30/2006	07/30/2014	METHOD FOR PROGRAMMING A MEMORY DEVICE
06788225.8	AF01638EP	EPO	07/21/2006		MEMORY DEVICE WITH BARRIER LAYER
06749242.1	AF01665EP	EPO	04/04/2006		SPLIT GATE MULTI-BIT MEMORY CELL

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06803199.6	AF01668EP	EPO	09/08/2006		HIGH PERFORMANCE FLASH MEMORY DEVICE USING A PROGRAMMING WINDOW FOR PREDETERMINATION OF BITS TO BE PROGRAMMED AND DC-TO-DC CONVERTER
06814339.5	AF01669EP	EPO	09/07/2006		MULTI-BIT FLASH MEMORY DEVICE HAVING IMPROVED PROGRAM RATE
06814331.2	AF01673EP	EPO	09/07/2006		FLASH MEMORY PROGRAMMING USING AN INDICATION BIT TO INTERPRET STATE
1908077	AF01676EP	EPO	07/17/2006	01/19/2009	IMPROVED READ MODE FOR FLASH MEMORY
05737365.6	AF01728EP	EPO	04/27/2005		SEMICONDUCTOR DEVICE AND MANUFACTURING METHOD THEREFOR
06739368.6	AF01730EP	EPO	03/24/2006		MULTI CHIP MODULE AND METHOD OF MANUFACTURE
06802940.4	AF01746EP	EPO	09/06/2006		SPACERS BETWEEN BITLINES IN VIRTUAL GROUND MEMORY
1898460	AF01792EP	EPO	06/28/2005	01/04/2012	MIRRORBIT DEVICE HAVING STI AND DUAL POLY FILMS
07753350.3	AF01810EP	EPO	03/16/2007		VERTICAL EEPROM DEVICE
06804173.0	AF01828EP	EPO	09/26/2006		DIGITAL DATA TRANSFER BETWEEN DIFFERENT CLOCK DOMAINS
07852715.7	AF01836	EPO	10/12/2007		SEMICONDUCTOR DEVICE AND METHOD OF CONTROLLING THE SAME
1907868	AF01852EP	EPO	07/07/2006	07/29/2010	INTEGRATED CIRCUIT TEST SOCKET
06816539.8	AF01853EP	EPO	10/06/2006		MEMORY ARRAY ARRANGED IN BANKS AND SECTORS AND ASSOCIATED DECODERS
07754965.7	AF01907WO	EPO	04/05/2007		MULTI MEDIA CARD WITH HIGH STORAGE CAPACITY
07754992.1	AF01954	EPO	04/05/2007		MEMORY CELL ARRAY WITH LOW RESISTANCE COMMON SOURCE AND HIGH CURRENT DRIVABILITY
07837325.5	AF02067EP	EPO	08/23/2007		MEMORY ERASE MANAGEMENT SYSTEM
1310994	AF02184EP	EPO	07/17/2000	02/13/2013	NONVOLATILE MEMORY DEVICE AND
01402621.5	AF02192EP	EPO	10/10/2001		SEMICONDUCTOR MEMORY AND MANUFACTURING
01118675.6	AF02198EP	EPO	08/03/2001		SEMICONDUCTOR MEMORY DEVICE AND DRIVING
1286359	AF02200	EPO	03/18/2002	01/17/2007	MEMORY CONTROLLER FOR MULTI LEVEL
03009892.5	AF02212EP	EPO	05/15/2003		NONVOLATILE SEMICONDUCTOR MEMORY DEVICE
1574867	AF02230EP	EPO	12/17/2003	08/08/2007	SEMICONDUCTOR DEVICE AND TEST METHOD
06811935.3	AF02243EP	EPO	10/18/2006		A VOLTAGE DETECTOR CIRCUIT
07811531.8	AF02282EP	EPO	08/23/2007		MULTIPLE COMMUNICATION CHANNELS ON MMC OR SD CMD LINE
08780275.7	AF02465EP	EPO	07/21/2008		TERMINATE CYCLE FOR BURST WRITE OPERATION
08743943.6	AF02477EP	EPO	03/14/2008		DIVISION-BASED SENSING AND PARTITIONING OF ELECTRONIC MEMORY
08755298.0	AF02560EP	EPO	05/12/2008		DIE ATTACHMENT, DIE STACKING, AND WIRE EMBEDDING USING FILM
00904420.7	AF02593EP	EPO	01/18/2000		SHARED MEMORY APPARATUS AND METHOD FOR MULTIPROCESSOR SYSTEMS
11816997.8	AF03209EP	EPO	08/10/2011		STITCH BUMP STACKING DESIGN FOR OVERALL PACKAGE SIZE REDUCTION FOR MULTIPLE STACK
11804189.6	AF03219EP	EPO	06/29/2011		METHOD AND SYSTEM FOR THIN MULTI CHIP STACK PACKAGE WITH FILM ON WIRE AND COPPER WIRE
12860893.2	AF04035EP	EPO	12/18/2012		ACOUSTIC PROCESSING UNIT INTERFACE
12859642.6	AF04036EP	EPO	12/18/2012		ARITHMETIC LOGIC UNIT ARCHITECTURE
0963587	C144496EP	EPO	02/05/1998	01/16/2002	HIGH VOLTAGE NMOS PASS GATE FOR INTEGRATED CIRCUIT WITH HIGH VOLTAGE GENERATOR AND FLASH NON-VOLATILE MEMORY DEVICE HAVING THE PASS GATE
0944907	C196596EP	EPO	11/13/1997	10/17/2001	BANK ARCHITECTURE FOR A NON-VOLATILE MEMORY ENABLING SIMULTANEOUS READING AND WRITING
1040486	C369297EP	EPO	12/18/1998	02/27/2002	BIASING METHOD AND STRUCTURE FOR REDUCING BAND-TO-BAND AND/OR AVALANCHE CURRENTS DURING THE ERASE OF FLASH MEMORY DEVICES
1042810	C627497EP	EPO	12/18/1998	05/20/2010	METHODS AND ARRANGEMENTS FOR IMPROVED FORMATION OF CONTROL AND FLOATING GATES IN NON-VOLATILE MEMORY SEMICONDUCTOR DEVICES
1247299	C656497EP	EPO	08/31/2000	04/11/2007	TUNGSTEN GATE MOS TRANSISTOR AND MEMORY CELL AND METHOD OF MAKING SAME
1204989	C695497EP	EPO	06/29/2000	04/02/2014	THIN FLOATING GATE AND CONDUCTIVE SELECT GATE IN SITU
1116240	C715497	EPO	09/21/1999	11/13/2002	WORDLINE DRIVER FOR FLASH ELECTRICALLY ERASABLE PROGRAMMABLE READ-ONLY MEMORY (EEPROM)
1125302	D138	EPO	10/05/1999	01/08/2003	SCHEME FOR PAGE ERASE AND ERASE VERIFY IN A NON-VOLATILE MEMORY ARRAY
1116238	D139	EPO	08/16/1999	02/26/2003	BANK SELECTOR CIRCUIT FOR A SIMULTANEOUS OPERATION FLASH MEMORY DEVICE WITH A FLEXIBLE BANK PARTITION ARCHITETURE
1116239	D168	EPO	08/16/1999	05/15/2002	SIMULTANEOUS OPERATION FLASH MEMORY DEVICE WITH A FLEXIBLE DEVICE WITH A FLEXIBLE BANK PARTITION ARCHITECTURE
1116236	D169	EPO	08/16/1999	05/15/2002	METHOD OF MAKING FLEXIBLY PARTITIONED METAL LINE SEGMENTS FOR A SIMULTANEOUS OPERATION FLASH MEMORY DEVICE WITH A FLEXIBLE BANK PARTITION ARCHITECTURE
1125301	D170	EPO	08/16/1999	10/16/2002	MEMORY ADDRESS DECODING CIRCUIT FOR A SIMULTANEOUS OPERATION FLASH MEMORY DEVICE WITH A FLEXIBLE BANK PARTITION ARCHITECTURE
1175680	D832EP	EPO	05/05/2000	02/26/2003	RAMPED OR STEPPED GATE CHANNEL ERASE FOR FLASH MEMORY APPLICATION
1214715	D833EP	EPO	08/29/2000	10/15/2009	1 TRANSISTOR FOR EEPROM APPLICATION
00983940.8	D853	EPO	12/05/2000		METHOD TO PROVIDE A REDUCED CONSTANT E-FIELD DURING ERASE OF EEPROMS FOR RELIABILITY IMPROVEMENT
1218941	D877EP	EPO	07/17/2000	04/02/2014	NON-VOLATILE MEMORY HAVING HIGH GATE COUPLING CAPACITANCE

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1222690	D894EP	EPO	09/29/2000	01/23/2008	METHOD OF MANUFACTURING A SEMICONDUCTOR DEVICE WITH REDUCED ARC LOSS IN PERIPHERAL CIRCUITRY REGION
00984473.9	D958EP	EPO	12/13/2000		NOVEL NITRIDATION BARRIERS FOR NITRIDATED TUNNEL OXIDE FOR CIRCUITRY FOR FLASH TECHNOLOGY AND FOR LOCOS/STI ISOLATION
1218938	DA01016EP	EPO	07/14/2000	12/19/2007	METHOD FOR PROVIDING A DOPANT LEVEL FOR POLYSILICON FOR FLASH MEMORY DEVICES
00943282.4	E0197EP	EPO	06/29/2000		NEW METHOD OF FORMING SELECT GATE TO IMPROVE RELIABILITY AND PERFORMANCE FOR NAND-TYPE FLASH MEMORY DEVICES
1256116	E0251	EPO	07/14/2000	09/03/2003	FLASH MEMORY ARCHITECTURE EMPLOYING THREE LAYER METAL INTERCONNECT
01916283.3	E0255EP	EPO	02/27/2001		CHARGE SHARING TO HELP BOOST THE WORDLINES DURING APDE VERIFY
1266382	E0264	EPO	02/07/2001	01/02/2004	TRIMMING METHOD FOR WORDLINE BOOSTER TO MINIMIZE PROCESS VARIATION OF BOOSTED WORDLINE VOLTAGE
1282915	E0302EP	EPO	05/01/2001	11/05/2014	UNIFORM BITLINE STRAPPING OF NON-VOLATILE MEMORY CELL
01916603.2	E0370EP	EPO	03/12/2001		A DUAL SPACER PROCESS NON-VOLATILE MEMORY DEVICES
1350253	F0257EP	EPO	08/07/2001	09/22/2010	METHOD AND SYSTEM FOR EMBEDDED CHIP ERASE VERIFICATION
01990221.2	F0260EP	EPO	12/12/2001		METHOD AND APPARATUS FOR BOOSTING BITLINES FOR LOW VCC READ
1366497	F0274EP	EPO	11/01/2001	06/04/2014	HIGHER PROGRAM VT AND FASTER PROGRAMMING RATES BASED ON IMPROVED ERASE METHODS
02800870.4	F0282EP	EPO	09/30/2002		DOUBLE DENSED CORE GATES IN SONOS FLASH MEMORY
1435114	F0283EP	EPO	09/27/2002	12/08/2010	SALICIDED GATE FOR VIRTUAL GROUND ARRAYS
01959586.7	F0499EP	EPO	08/06/2001		A SOURCE SIDE BORON IMPLANTING AND DIFFUSING DEVICE ARCHITECTURE FOR DEEP SUBSTANCE 0.18UM FLASH MEMORY TECHNOLOGIES
01957475.5	F0932EP	EPO	08/06/2001		SOURCE SIDE BORON IMPLANT AND DRAIN SIDE MDD IMPLANT FOR DEEP SUB 0.18 MICRON FLASH MEMORY
1386323	F1067EP	EPO	02/19/2002	06/17/2009	THRESHOLD VOLTAGE COMPACTING FOR NON-VOLATILE SEMICONDUCTOR MEMORY DESIGNS
92307223.5	FMA13-0002US CON	EPO	08/07/1992		PLL SYNTHESIZER CIRCUITRY
0664604	FMA13-0011DE	EPO	12/13/1994	03/26/2003	TRANSIMPEDANCE AMPLIFIER
0627807	FMA13-0015US CON	EPO	05/26/1994	08/12/1998	POWER LINE CONNECTION CIRCUIT AND POWER LINES SWITCH IC FOR THE SAME
06254768.2	FMA13-00305EP	EPO	09/13/2006		IMAGE PROCESSING APPARATUS AND RESIZING
06798412.0	FMA13-00309EP	EPO	09/28/2006		SIGNAL RECEIVER APPARATUS AND WAVEFORM SHAPING METHOD
03019668.7	FMA13-00344CN	EPO	09/08/2003		PLL CLOCK GENERATOR CIRCUIT AND CLOCK GENERATION METHOD
08158811.3	FMA13-00346US	EPO	06/23/2008		SIMULATION OF PROGRAM EXECUTION TO DETECT PROBLEM SUCH AS DEADLOCK
07117198.7	FMA13-00348US	EPO	09/25/2007		CIRCUIT FOR CORRECTING SENSOR TEMPERATURE CHARACTERISTICS
07831164.4	FMA13-00353US CON	EPO	11/02/2007		SIGNAL PROCESSOR AND COMMUNICATION DEVICE
07101756.0	FMA13-0043EP	EPO	11/18/1996		SEMICONDUCTOR INTEGRATED CIRCUIT OPERABLE AS A PHASE-LOCKED LOOP
07101761.0	FMA13-0043EP DIV	EPO	11/18/1996		SEMICONDUCTOR INTEGRATED CIRCUIT OPERABLE AS A PHASE-LOCKED LOOP
96308327.4	FMA13-0043US	EPO	11/18/1996		SEMICONDUCTOR INTEGRATED CIRCUIT OPERABLE AS A PHASE-LOCKED LOOP
0990987	FMA13-00448DE	EPO	04/22/1999	03/22/2006	ELECTRONIC DEVICE WITH FLASH MEMORY BUILT-IN
2345148	FMA13-00472DE	EPO	11/11/2008	09/03/2014	METHOD OF DETECTING AN OPERATING CONDITION OF AN ELECTRIC STEPPER MOTOR
2381450	FMA13-00503DE	EPO	02/03/2011	07/16/2014	SEMICONDUCTOR MEMORY
12158984.0	FMA13-00503EP	EPO	02/03/2011		SEMICONDUCTOR MEMORY
12159036.8	FMA13-00503EP DIV	EPO	02/03/2011		SEMICONDUCTOR MEMORY
11179428.5	FMA13-00508US CON	EPO	08/30/2011		NODE SYSTEM AND SUPERVISORY NODE
0845864	FMA13-0051DE	EPO	07/11/1997	02/09/2005	LEVEL CONVERTER AND SEMICONDUCTOR DEVICE
12180833.1	FMA13-00532EP	EPO	08/17/2012		PROCESSOR USING INTERRUPT SIGNAL TO DEFINE INSTRUCTION DECODING
1239573	FMA13-00539DE	EPO	01/07/2002	05/26/2010	OVERVOLTAGE PROTECTOR FOR ELECTRIC POWER SYSTEM, AC/DC CONVERTER AND DC/DC CONVERTER CONSTITUTING THE POWER SYSTEM
1246369	FMA13-00544EP	EPO	03/18/2002	08/17/2005	MODE SWITCHING METHOD FOR PLL CIRCUIT AND MODE CONTROL CIRCUIT FOR PLL CIRCUIT
1324477	FMA13-00551DE	EPO	12/06/2002	08/09/2006	BIPOLAR SUPPLY VOLTAGE GENERATOR AND SEMICONDUCTOR DEVICE FOR THE SAME
06007107.3	FMA13-00552US	EPO	04/04/2006		ANALOG MULTISTAGE AMPLIFICATION CIRCUIT IN THE FIELD OF SENSOR
06252787.4	FMA13-00570CN	EPO	05/30/2006		RECONFIGURABLE CIRCUIT
0878910	FMA13-0063DE	EPO	11/10/1997	05/23/2007	SKEW-REDUCTION CIRCUIT
1016969	FMA13-0076DE	EPO	12/22/1999	03/24/2004	MICROCONTROLLER PROVIDED WITH SUPPORT FOR DEBUGGING
1058385	FMA13-0089DE-1	EPO	03/29/2000	06/01/2005	COMPARATOR CIRCUIT
1530293	FMA13-0089EP	EPO	03/29/2000	01/24/2007	VOLTAGE CONTROLLED OSCILLATOR CIRCUIT
1227591	FMA13-0093DE	EPO	08/18/2000	01/25/2006	FREQUENCY MEASUREMENT CIRCUIT??

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00400579.9	FMA13-0096EP	EPO	03/03/2000		DEVICE AND METHOD OF SUPPLYING POWER TO PLURALITY OF SEMICONDUCTOR INTEGRATED CIRCUIT DEVICES
01101163.2	FMA13-0101US	EPO	01/23/2001		INTERFACE APPARATUS
1202245	FMA13-0110DE	EPO	05/02/2002	10/05/2011	DOT-INVERSION DATA DRIVER FOR LIQUID CRYSTAL DISPLAY DEVICE WITH REDUCED POWER CONSUMPTION
1164701	FMA13-0115DE	EPO	05/09/2001	09/13/2006	FRACTIONAL-N-PLL FREQUENCY SYNTHESIZER AND PHASE ERROR CANCELING METHOD THEREFOR
1239574	FMA13-0122DE	EPO	03/05/2002	05/16/2007	DC-DC CONVERTER, POWER SUPPLY CIRCUIT AND METHOD FOR CONTROLLING THE SAME
02250636.4	FMA13-0132EP	EPO	01/30/2002		NONVOLATILE SEMICONDUCTOR MEMORY DEVICE
1826775	FMA13-0132EP DIV	EPO	01/30/2002	09/07/2011	NONVOLATILE SEMICONDUCTOR MEMORY DEVICE
1826776	FMA13-0132EP DIV1	EPO	01/30/2002	04/27/2011	NONVOLATILE SEMICONDUCTOR MEMORY DEVICE
1830364	FMA13-0132EP DIV2	EPO	01/30/2002	12/10/2008	NONVOLATILE SEMICONDUCTOR MEMORY DEVICE
07109299.3	FMA13-0132EP DIV3	EPO	01/30/2002		NONVOLATILE SEMICONDUCTOR MEMORY DEVICE
1349106	FMA13-0158DE	EPO	01/31/2003	12/14/2005	FINGER MOVEMENT DETECTION METHOD AND APPARATUS
1435694	FMA13-0177DE2	EPO	12/23/2003	08/30/2006	SPREAD SPECTRUM CLOCK GENERATION CIRCUIT JITTER GENERATION CIRCUIT AND SEMICONDUCTOR DEVICE
1641124	FMA13-0177EP	EPO	12/23/2003	08/30/2006	SPREAD SPECTRUM CLOCK GENERATION CIRCUIT
1672800	FMA13-0177EP DIV	EPO	12/23/2003	08/19/2009	JITTER GENERATION CIRCUIT
1553636	FMA13-0178DE	EPO	03/03/2003	05/01/2013	MOS TYPE VARIABLE CAPACITANCE DEVICE
1657821	FMA13-0197EP	EPO	11/28/2003	05/23/2007	SD MODULATOR OF PLL CIRCUIT
1557682	FMA13-0200DE	EPO	06/16/2004	08/04/2010	TEST MODE ACTIVATION BY PHASE COMPARISON
1830196	FMA13-0200EP	EPO	06/16/2004	08/04/2010	TEST MODE ACTIVATION BY PHASE COMPARISON
1596208	FMA13-0211DE	EPO	04/04/2005	08/07/2013	CAPACITANCE DIFFERENCE DETECTING CIRCUIT AND MEMS SENSOR
1857826	FMA13-0211EP	EPO	04/04/2005	08/07/2013	CAPACITANCE DIFFERENCE DETECTING CIRCUIT AND MEMS SENSOR
04258184.3	FMA13-0225CN	EPO	12/30/2004		SEMICONDUCTOR DEVICE HAVING AN ARITHMETIC UNIT OF A RECONFIGURABLE CIRCUIT
1612682	FMA13-0227DE	EPO	01/26/2005	07/25/2012	DYNAMIC MEMORY RECONFIGURATION
1906312	FMA13-0227EP	EPO	01/26/2005	07/25/2012	DYNAMIC MEMORY CONFIGURATION
05009065.3	FMA13-0236US CON	EPO	04/26/2005		ANALOG FILTER CIRCUIT AND ADJUSTMENT METHOD THEREOF
05009782.3	FMA13-0237US	EPO	05/04/2005		SIGNAL DETECTION DEVICE, FREQUENCY DETECTION DEVICE, POWER CONSUMPTION CONTROL DEVICE, CORRESPONDING METHODS AND ELECTRONIC APPARATUS USING THE SAME
1689088	FMA13-0238EP	EPO	05/17/2005	09/02/2009	SPREAD SPECTRUM CLOCK GENERATION CIRCUIT AND A METHOD OF CONTROLLING THEREOF
1708359	FMA13-0248DE	EPO	08/08/2005	03/14/2012	AMPLIFICATION CIRCUIT AND CONTROL METHOD OF AMPLIFICATION
1748562	FMA13-0266DE	EPO	11/01/2005	05/07/2008	CLOCK GENERATING CIRCUIT AND CLOCK GENERATING METHOD
1764922	FMA13-0269DE	EPO	12/13/2005	10/29/2008	CLOCK GENERATION CIRCUIT AND CLOCK GENERATION METHOD
06124192.3	FMA13-0284US	EPO	11/16/2006		METHOD AND CIRCUIT FOR CORRECTING SENSOR TEMPERATURE DEPENDENCY CHARACTERISTIC
1832985	FMA13-0287DE	EPO	09/26/2006	07/04/2012	RECONFIGURABLE CIRCUIT
06119080.7	FMA13-0288EP	EPO	08/17/2006		PULSE WIDTH MODULATION CIRCUIT
06119268.8	FMA13-0289EP	EPO	08/21/2006		PRESALER CIRCUIT AND BUFFER CIRCUIT
2107681	FMA13-0289EP DIV	EPO	08/21/2006	07/19/2007	PRESALER CIRCUIT AND BUFFER CIRCUIT
06251768.5	FMA13-0295US	EPO	03/30/2006		COMPARATOR CIRCUIT AND CONTROL METHOD THEREOF
01274195.5	G0063EP	EPO	11/14/2001		ACCURATE VERIFY APPARATUS AND METHOD FOR NOR FLASH MEMORY CELLS IN THE PRESENCE OF HIGH COLUMN LEAKAGE
1399965	G0074EP	EPO	12/14/2001	01/12/2011	SOURCE DRAIN IMPLANT DURING ONO FORMATION FOR IMPROVED ISOLATION OF SONOS DEVICES
02713624.1	G0259EP	EPO	02/19/2002		FLASH MEMORY DEVICE WITH INCREASE OF EFFICIENCY DURING AN APDE (AUTOMATIC PROGRAM DISTURB AFTER ERASE) PROCESS
1529293	G0391EP	EPO	06/10/2003	11/23/2005	BUILT-IN-SELF-TEST OF FLASH MEMORY CELLS
1459374	G0689EP	EPO	12/11/2002	03/17/2010	SHALLOW TRENCH ISOLATION APPROACH FOR IMPROVED STI CORNER ROUNDING
1497833	G0861EP	EPO	02/14/2003	12/17/2008	IMPROVED ERASE METHOD FOR SINGLE SIDED MIRROR OPERATION
1493159	G0862EP	EPO	02/14/2003	10/01/2009	REFRESH SCHEME FOR DYNAMIC PAGE PROGRAMMING
1568045	G0865EP	EPO	07/10/2003	12/09/2009	MOCVD FORMATION OF Cu ₂ S
03812414.5	G0878EP	EPO	07/10/2003		A METHOD AND SYSTEM FOR ERASING A NITRIDE MEMORY DEVICE
1559110	H0297EP	EPO	07/10/2003	01/20/2010	CONTROL OF MEMORY ARRAYS UTILIZING ZENER DIODE-LIKE DEVICES
03811994.7	H0343EP	EPO	07/10/2003		MOCVD FORMATION OF Cu ₂ S
03786509.4	H0385EP	EPO	09/08/2003		AN ORGANIC MEMORY DEVICE AND METHOD FOR FORMING A MEMORY CELL
04784925.2	H0416EP	EPO	09/23/2004		SIDEWELL FORMATION FOR HIGH DENSITY POLYMER MEMORY ELEMENT ARRAY
1559109	H0434EP	EPO	12/03/2008	02/24/2010	STACKED ORGANIC MEMORY DEVICES AND METHODS OF OPERATING AND FABRICATING
1629535	H0437	EPO	05/11/2004	03/14/2007	PLANAR POLYMER MEMORY DEVICE
04752883.1	H0442	EPO	05/21/2004		ORGANIC MEMORY DEVICE AND METHODS OF USING AND MAKING THE DEVICE
1556887	H0514	EPO	06/10/2003	04/16/2008	NITROGEN OXIDATION TO REDUCE ENCROACHMENT
1568043	H0570	EPO	12/02/2002	09/21/2004	IMPROVED SYSTEM FOR PROGRAMMING A NON-VOLATILE MEMORY CELL

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1590810	H0625EP	EPO	01/08/2004	07/27/2011	IMPROVED METHOD FOR READING A NON-VOLATILE MEMORY CELL ADJACENT TO AN INACTIVE REGION OF A NON-VOLATILE MEMORY CELL ARRAY
1573746	H1205EP	EPO	07/24/2003	12/24/2008	CIRCUIT FOR ACCURATE MEMORY READ OPERATIONS
1644974	H1368EP	EPO	06/18/2004	06/15/2011	METHOD OF FORMING PECVD SILICON-RICH OXIDE LAYER FOR REDUCED UV CHARGING IN AN EEPROM
1602109	H1513	EPO	03/01/2004	10/15/2008	CIRCUIT FOR FAST AND ACCURATE MEMORY READ OPERATIONS
1434232	H1979EP	EPO	08/13/2001	09/19/2007	MEMORY CELL
04814984.3	H1985EP	EPO	12/17/2004		POCKET IMPLANT FOR COMPLEMENTARY BIT DISTURB IMPROVEMENT AND CHARGING IMPROVEMENT OF SONOS MEMORY CELL
1745511	H1993EP	EPO	02/11/2005	03/31/2010	BITLINE IMPLANT UTILIZING DUAL POLY
1872399	H1998EP	EPO	04/04/2006	06/18/2014	NON-CRITICAL COMPLEMENTARY MASKING METHOD FOR POLY-1 DEFINITION IN FLASH MEMORY DEVICE FABRICATION
99965057.5	JC684497EP	EPO	11/29/1999		HIGH YIELD, HIGH PERFORMANCE SEMICONDUCTOR PROCESS FLOW FOR NAND FLASH MEMORY PRODUCTS
1074046	JC688497EP	EPO	02/11/1999	08/20/2008	ELIMINATION OF POLY-CAP FOR EASY POLY1 CONTACT FOR NAND PRODUCT
00305940.9	P-1164EP	EPO	07/13/2000		AN NROM FABRICATION METHOD
1459374	P116WO-EP	EPO	12/11/2002	03/17/2010	SHALLOW TRENCH ISOLATION APPROACH FOR IMPROVED STI CORNER ROUNDING
01309289.5	P-2448US CON	EPO	04/03/2002		PROGRAMMING AND ERASING METHODS FOR A REFERENCE CELL OF AN NROM ARRAY
01309290.3	P-2448US CON	EPO	11/01/2001		PROGRAMMING AND ERASING METHODS FOR A REFERENCE CELL OF AN NROM ARRAY
02252406.0	P-2448US CON	EPO	04/01/2002		PROGRAMMING AND ERASING METHODS FOR A REFERENCE CELL OF AN NROM ARRAY
02252406.0	P-2448US CON	EPO	04/03/2002		PROGRAMMING AND ERASING METHODS FOR A REFERENCE CELL OF AN NROM ARRAY
20010929943	P-2448WO	EPO	11/02/2001		ARCHITECTURE AND SCHEME FOR A NON-STROBED READ SEQUENCE
02257381.0	P-4006EP	EPO	10/24/2002		METHOD FOR ERASING A MEMORY CELL
02257954.4	P-4007EP	EPO	11/18/2002		PROTECTIVE LAYER IN MEMORY DEVICE AND METHOD THEREFOR
03254386.0	P-4629EP	EPO	07/10/2003		A MULTIPLE USE MEMORY CHIP
03001943.4	P-4676EP1	EPO	01/30/2003		METHOD FOR OPERATING A MEMORY DEVICE
06100056.8	P-4676EP3	EPO	01/04/2006		METHOD FOR OPERATING A MEMORY DEVICE
04791843.8	P-5484US	EPO	10/29/2003	11/14/2006	METHOD SYSTEM AND CIRCUIT FOR PROGRAMMING A NON-VOLATILE MEMORY ARRAY
2004791844	P-5487-CN	EPO	10/27/2004		METHOD CIRCUIT AND SYSTEM FOR DETERMINING A REFERENCE VOLTAGE
2004791845.3	P-5487-CN	EPO	10/27/2004		METHOD CIRCUIT AND SYSTEM FOR DETERMINING A REFERENCE VOLTAGE
05111880.0	P-6628US	EPO	12/09/2004	08/14/2007	MEMORY FOR READING NON-VOLATILE MEMORY CELLS
06118948.6	P-6628US CIP	EPO	06/13/2008		METHOD FOR READING NON-VOLATILE MEMORY CELLS
06112462.4	P-7632EP	EPO	04/11/2006		THRESHOLD VOLTAGE SHIFT IN NROM CELLS
60318714.5	SE0002EP	EPO	03/11/2003	01/08/2009	SYSTEM AND METHOD OF ERASE VOLTAGE CONTROL DURING MULTIPLE SECTOR ERASE OF A FLASH MEMORY DEVICE
10730637.5	SP09-0001EP	EPO	06/23/2010		ELECTRONIC DEVICE HAVING A MOLDING COMPOUND INCLUDING A COMPOSITE MATERIAL
12854967.2	SP09-0056CN	EPO	12/07/2012		HIGH SPEED SERIAL PERIPHERAL INTERFACE MEMORY SUBSYSTEM
11848968.1	SP10-0007EP	EPO	12/16/2011		SELF-ALIGNED NAND FLASH SELECT-GATE WORDLINES FOR SPACER DOUBLE PATTERNING
11850857.1	SP10-0008EP	EPO	12/19/2011		EDGE ROUNDED FIELD EFFECT TRANSISTORS AND METHODS OF MANUFACTURING
11852012.1	SP10-0009EP	EPO	12/19/2011		PROCESS MARGIN ENGINEERING IN CHARGE TRAPPING FIELD EFFECT TRANSISTORS
11853037.7	SP10-0012EP	EPO	12/29/2011		MEMORY WITH EXTENDED CHARGE TRAPPING LAYER
13790045.2	SP11-0015CN	EPO	05/14/2013		SOFT ERROR RESISTANT CIRCUITRY
12859602.0	SP11-0042EP	EPO	12/14/2012		ACOUSTIC PROCESSING UNIT
0657927	TT0347DE	EPO	12/12/1994	02/27/2002	FLASH EPROM DEVICES
0729187	TT0497DE	EPO	01/30/1996	04/03/2002	A NON-VOLATILE MEMORY DEVICES HAVING A FLOATING GATE WITH ENHANCED CHARGE RETENTION
96302994.7	TT0607US	EPO	04/29/1996		READING A NON-VOLATILE MEMORY ARRAY
1203378	C725497	Finland	08/01/2000	03/05/2003	CIRCUIT IMPLEMENTATION TO QUENCH BIT LINE LEAKAGE CURRENT IN PROGRAM AND AUTO PROGRAM DISTURB MODE IN FLASH EPROM USING RESISTOR SOURCE LOAD
0656628	A938FR	France	11/10/1994	04/09/2003	PROGRAMMED REFERENCE
0690508	A976/2067FR	France	06/20/1995	09/11/2002	HIGH ENERGY BURIED LAYER IMPLANT TO PROVIDE A LOW RESISTANCE P-WELL IN A FLASH EPROM ARRAY
1234324	AF01054FR	France	10/16/2000	10/04/2006	HIGH TEMPERATURE OXIDE DEPOSITION PROCESS FOR FABRICATING AN ONO FLOATING-GATE ELECTRODE IN A TWO BIT EEPROM DEVICE
1295294	AF01076FR	France	05/21/2001	01/25/2005	BURST ARCHITECTURE FOR A FLASH MEMORY
1327193	AF01078FR	France	07/17/2001	02/21/2007	BURST READ INCORPORATING OUTPUT BASED REDUNDANCY
1297534	AF01085FR	France	06/04/2001	03/14/2007	METHOD TO REDUCE CAPACITIVE LOADING IN FLASH MEMORY X-DECODER FOR ACCURATE VOLTAGE CONTROL AT WORDLINES AND SELECT LINES
1338037	AF01112FR	France	11/15/2001	03/30/2011	NON-VOLATILE SONOS SEMICONDUCTOR MEMORY DEVICE
03746534.1	AF01137FR	France	02/14/2003		MEMORY MANUFACTURING PROCESS WITH BITLINE ISOLATION
1636801	AF01169FR	France	05/21/2004	11/02/2006	MEMORY WITH A CORE-BASED VIRTUAL GROUND AND DYNAMIC REFERENCE SENSING SCHEME

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1665387	AF01182FR	France	05/21/2004	08/13/2008	MEMORY DEVICE HAVING HIGH WORK FUNCTION GATE AND METHOD OF ERASING SAME
1774530	AF01365FR	France	04/29/2005	01/23/2008	FLASH MEMORY UNIT AND METHOD OF PROGRAMMING A FLASH MEMORY DEVICE
1782460	AF01379FR	France	04/29/2005	06/01/2011	METHOD FOR FABRICATING A FLOATING GATE MEMORY CELL
1830366	AF01438FR	France	12/24/2004	07/13/2011	BIAS APPLICATION METHOD OF STORAGE AND STORAGE
1829048	AF01485FR	France	12/20/2005	06/15/2011	METHOD OF PROGRAMMING, READING AND ERASING MEMORY-DIODE IN A MEMORY-DIODE ARRAY
1898460	AF01792FR	France	06/28/2005	01/04/2012	MIRRORBIT DEVICE HAVING STI AND DUAL POLY FILMS
1103980	AF02178FR	France	11/24/2000	01/16/2008	NONVOLATILE SEMICONDUCTOR MEMORY DEVICE
E1223586	AF02182FR	France	08/18/2000	08/03/2005	NONVOLATILE MEMORY CIRCUIT STORAGE MULTI-
1310994	AF02184FR	France	07/17/2000	02/13/2013	NONVOLATILE MEMORY DEVICE AND
1310963	AF02186FR	France	06/29/2000	12/27/2006	SEMICONDUCTOR MEMORY DEVICE
1286359	AF02200FR	France	03/18/2002	01/17/2007	MEMORY CONTROLLER FOR MULTI LEVEL
1574867	AF02230FR	France	12/17/2003	08/08/2007	SEMICONDUCTOR DEVICE AND TEST METHOD
1575056	AF02233FR	France	12/17/2003	06/06/2007	NONVOLATILE MEMORY AND METHOD AND WRITE METHOD OF THE SAME
700097	B001FR	France	06/30/1995	05/31/2000	A SELF-ALIGNED BURIED CHANNEL/JUNCTION STACKED GATE FLASH MEMORY CELL
0792516	B011/2097FR	France	11/08/1995	03/10/1999	NITRIDE ETCH PROCESS WITH CRITICAL DIMENSION (CD) GAIN
0799497	B047FR	France	11/22/1995	01/19/2000	NOVEL PROCESSING TECHNIQUES FOR ACHIEVING PRODUCTION WORTHY LOW DIELECTRIC LOW INTERCONNECT RESISTANCE AND HIGH PERFORMANCE
0784867	B100FR	France	07/31/1996	12/05/2007	THREE-DIMENSIONAL NON-VOLATILE MEMORY
0780023	B111FR	France	06/21/1996	04/10/2002	PROCESS FOR SELF-ALIGNED SOURCE FOR HIGH DENSITY MEMORY
0856188	B128FR	France	08/30/1996	10/27/1999	A FLASH EEPROM MEMORY WITH SEPARATE REFERENCE ARRAY
0880783	B257FR	France	08/15/1996	10/13/1999	LOW SUPPLY VOLTAGE NEGATIVE CHARGE PUMP
0858661	B260FR	France	07/19/1996	12/15/1999	A NEW PROGRAM ALGORITHM FOR LOW VOLTAGE (3V) SINGLE POWER SUPPLY FLASH MEMORIES
0928497	B277FR	France	03/25/1997	07/09/2008	A NOVEL PROCESS FOR RELIABLE ULTRATHIN OXYNITRIDE FORMATION
1019914	C141496FR	France	04/10/1998	03/06/2002	A DUAL SOURCE SIDE POLYSILICON SELECT GATE STRUCTURE AND PROGRAMMING METHOD UTILIZING SINGLE TUNNEL OXIDE FOR NAND ARRAY FLASH MEMORY
0944907	C196596FR	France	11/13/1997	10/17/2001	BANK ARCHITECTURE FOR A NON-VOLATILE MEMORY ENABLING SIMULTANEOUS READING AND WRITING
1040486	C369297FR	France	12/18/1998	02/27/2002	BIASING METHOD AND STRUCTURE FOR REDUCING BAND-TO-BAND AND/OR AVALANCHE CURRENTS DURING THE ERASE OF FLASH MEMORY DEVICE
1012878	C526397FR	France	08/25/1998	07/28/2004	REDUCTION OF CHARGE LOSS IN NONVOLATILE MEMORY CELLS BY PHOSPHOROUS IMPLANTATION INTO PECVD NITRIDE/OXYNITRIDE FILMS
1247299	C656497FR	France	08/31/2000	04/11/2007	TUNGSTEN GATE MOS TRANSISTOR AND MEMORY CELL AND METHOD OF MAKING SAME
1116240	C715497FR	France	09/21/1999	11/13/2002	WORDLINE DRIVER FOR FLASH ELECTRICALLY ERASABLE PROGRAMMABLE READ-ONLY MEMORY (EEPROM)
1203378	C725497FR	France	08/01/2000	03/05/2003	CIRCUIT IMPLEMENTATION TO QUENCH BIT LINE LEAKAGE CURRENT IN PROGRAM AND AUTO PROGRAM DISTURB MODE IN FLASH EPROM USING RESISTOR SOURCE LOAD
1123547	D016FR	France	10/05/1999	08/06/2003	BIT LINE BIASING METHOD TO ELIMINATE PROGRAM DISTURBANCE IN A NON-VOLATILE MEMORY DEVICE AND MEMORY DEVICE EMPLOYING THE SAME
1125302	D138FR	France	10/05/1999	01/08/2003	SCHEME FOR PAGE ERASE AND ERASE VERIFY IN A NON-VOLATILE MEMORY ARRAY
1116238	D139FR	France	08/16/1999	02/26/2003	BANK SELECTOR CIRCUIT FOR A SIMULTANEOUS OPERATION FLASH MEMORY DEVICE WITH A FLEXIBLE BANK PARTITION ARCHITETURE
1116239	D168FR	France	08/16/1999	05/15/2002	SIMULTANEOUS OPERATION FLASH MEMORY DEVICE WITH A FLEXIBLE DEVICE WITH A FLEXIBLE BANK PARTITION ARCHITECTURE
1116236	D169FR	France	08/16/1999	05/15/2002	METHOD OF MAKING FLEXIBLY PARTITIONED METAL LINE SEGMENTS FOR A SIMULTANEOUS OPERATION FLASH MEMORY DEVICE WITH A FLEXIBLE BANK PARTITION ARCHITECTURE
1125301	D170FR	France	08/16/1999	10/16/2002	MEMORY ADDRESS DECODING CIRCUIT FOR A SIMULTANEOUS OPERATION FLASH MEMORY DEVICE WITH A FLEXIBLE BANK PARTITION ARCHITECTURE
1142014	D802FR	France	10/24/1999	09/03/2008	METHOD FOR IMPROVING ELECTROSTATIC DISCHARGE (ESD) ROBUSTNESS
1175680	D832FR	France	05/05/2000	02/26/2003	RAMPED OR STEPPED GATE CHANNEL ERASE FOR FLASH MEMORY APPLICATION
1224696	D838FR	France	10/24/2000	08/30/2006	SOLID-SOURCE DOPING FOR SOURCE/DRAIN OF FLASH MEMORY
1218941	D877FR	France	07/17/2000	04/02/2014	NON-VOLATILE MEMORY HAVING HIGH GATE COUPLING CAPACITANCE
1222690	D894FR	France	09/29/2000	01/23/2008	METHOD OF MANUFACTURING A SEMICONDUCTOR DEVICE WITH REDUCED ARC LOSS IN PERIPHERAL CIRCUITRY REGION
1218938	DA01016FR	France	07/14/2000	12/19/2007	METHOD FOR PROVIDING A DOPANT LEVEL FOR POLYSILICON FOR FLASH MEMORY DEVICES
69412360	FMA13-0015DE	France	05/26/1994	08/12/1998	POWER LINE CONNECTION CIRCUIT AND POWER LINES SWITCH IC FOR THE SAME
2752114	FMA13-0042CN DIV	France	06/26/1997	03/15/2002	OSCILLATOR HAVING SWITCHING CAPACITORS AND PHASE-LOCKED LOOP ...

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2759217	FMA13-0042FR	France	06/26/1997	11/02/2001	OSCILLATOR HAVING SWITCHING CAPACITORS AND PHASE-LOCKED LOOP ...
2345148	FMA13-00472EP	France	11/11/2008	09/03/2014	METHOD OF DETECTING AN OPERATING CONDITION OF AN ELECTRIC STEPPER MOTOR
2381450	FMA13-00503EP DIV2	France	02/03/2011	07/16/2014	SEMICONDUCTOR MEMORY
2773925	FMA13-0066US	France	07/22/1998	06/08/2001	PLL FREQUENCY SYNTHESIZER WITH LOCK DETECTION CIRCUIT
2774234	FMA13-0069US	France	08/20/1998	12/03/2004	SEMICONDUCTOR DEVICE INCLUDING A BOOST CIRCUIT
2779293	FMA13-0070US	France	12/29/1998	05/17/2002	CIRCUIT DE SORTIE A TRANSISTORS
1435694	FMA13-0177EP	France	12/23/2003	06/03/2009	SPREAD SPECTRUM CLOCK GENERATION CIRCUIT JITTER GENERATION CIRCUIT AND SEMICONDUCTOR DEVICE
1641124	FMA13-0177FR	France	12/23/2003	06/03/2009	SPREAD SPECTRUM CLOCK GENERATION CIRCUIT
1672800	FMA13-0177FR-1	France	12/23/2003	08/19/2009	JITTERY GENERATION CIRCUIT
1553636	FMA13-0178EP	France	03/03/2003	05/01/2013	MOS TYPE VARIABLE CAPACITANCE DEVICE
1906312	FMA13-0227EP DIV	France	01/26/2005	07/25/2012	DYNAMIC MEMORY CONFIGURATION
1748562	FMA13-0266EP	France	11/01/2005	05/07/2008	CLOCK GENERATING CIRCUIT AND CLOCK GENERATING METHOD
1529293	G0391FR	France	06/10/2003	11/23/2005	BUILT-IN-SELF-TEST OF FLASH MEMORY CELLS
1497833	G0861FR	France	02/14/2003	12/08/2008	IMPROVED ERASE METHOD FOR SINGLE SIDED MIRROR OPERATION
03716045.4	G0862FR	France	02/14/2003		REFRESH SCHEME FOR DYNAMIC PAGE PROGRAMMING
1518247	G0866FR	France	04/22/2003	02/08/2006	STEPPED PRE-ERASE VOLTAGE FOR MIRRORBIT ERASE
1629535	H0437FR	France	05/11/2004	03/14/2007	PLANAR POLYMER MEMORY DEVICE
1556887	H0514FR	France	06/10/2003	04/16/2008	NITROGEN OXIDATION TO REDUCE ENCROACHMENT
1568043	H0570FR	France	07/24/2003	12/05/2007	IMPROVED SYSTEM FOR PROGRAMMING A NON-VOLATILE MEMORY CELL
1568037	H0575FR	France	07/24/2003	06/18/2008	IMPROVED PRE-CHARGE METHOD FOR READING A NON-VOLATILE MEMORY CELL ARRAY WITH STAGGERED LOCAL INTERCONNECT STRUCTURE
1673781	H0576FR	France	09/16/2004	07/25/2007	IMPROVED METHOD FOR READING A NON-VOLATILE MEMORY CELL ADJACENT TO AN INACTIVE REGION OF A NON-VOLATILE MEMORY CELL ARRAY
1590810	H0625FR	France	01/08/2004	07/27/2011	CASCADE AMPLIFIER CIRCUIT FOR PRODUCING A FAST, STABLE AND ACCURATE BITLINE VOLTAGE
1563507	H1203FR	France	07/10/2003	04/15/2009	CIRCUIT FOR ACCURATE MEMORY READ OPERATIONS
1573746	H1205FR	France	07/24/2003	12/24/2008	PECVD SILICON-RICH OXIDE LAYER FOR REDUCED UV CHARGING
1644974	H1368FR	France	06/18/2004	06/15/2011	CIRCUIT FOR FAST AND ACCURATE MEMORY READ OPERATIONS
1602109	H1513FR	France	03/01/2004	10/15/2008	A NON-CRITICAL COMPLEMENTARY MASKING METHOD FOR POLY-1 DEFINITION IN FLASH MEMORY DEVICE FABRICATION
1872399	H1998FR	France	04/04/2006	06/18/2014	FLASH EPROM DEVICES
0657927	TT0347EP	France	12/12/1994	02/27/2002	A NON-VOLATILE MEMORY DEVICES HAVING A FLOATING GATE WITH ENHANCED CHANGE RETENTION
0729187	TT0497EP	France	01/30/1996	04/03/2002	MEMORY BLOCK SELECT USING MULTIPLE WORD LINES TO ADDRESS A SINGLE MEMORY CELL ROW
0929898	TT1997FR	France	09/29/1997	11/28/2001	CHARGE PUMP APPARATUS
69111499.4	A768/1837DE	Germany	03/20/1991	07/26/1995	METHOD OF PROGRAMMING FLASH EEPROM CELL ARRAYS
69226546.5	A808/1864DE	Germany	01/27/1992	08/12/1998	PROGRAMMED REFERENCE
69432452.3	A938DE	Germany	11/10/1994	04/09/2003	METHOD AND APPARATUS FOR PROGRAMMING MEMORY DEVICES
69520853.5	A960/2054DE	Germany	03/23/1995	05/09/2001	HIGH ENERGY BURIED LAYER IMPLANT TO PROVIDE A LOW RESISTANCE P-WELL IN A FLASH EPROM ARRAY
69528118	A976/2067DE	Germany	06/20/1995	09/11/2002	LOW VOLTAGE READ CASCODE FOR 2V/3V AND DIFFERENT BANK COMBINATIONS WITHOUT METAL OPTIONS FOR A SIMULTANEOUS OPERATION FLASH MEMORY DEVICE
60011921.1	AF01002DE	Germany	10/07/2000	06/30/2004	WORDLINE DRIVER FOR FLASH MEMORY READ MODE
60101047.7	AF01036DE	Germany	02/07/2001	10/22/2003	HIGH TEMPERATURE OXIDE DEPOSITION PROCESS FOR FABRICATING AN ONO FLOATING-GATE ELECTRODE IN A TWO BIT EEPROM DEVICE
60031155.4	AF01054DE	Germany	10/16/2000	10/14/2006	VOLTAGE BOOST LEVEL CLAMPING CIRCUIT FOR A FLASH MEMORY
60100741.7	AF01072DE	Germany	02/05/2001	10/09/2003	WORD LINE DECODING ARCHITECTURE IN A FLASH MEMORY
60136482.1	AF01073DE	Germany	07/31/2001	11/05/2008	MULTIPLE BANK SIMULTANEOUS OPERATION FOR A FLASH MEMORY
60130437.3	AF01075DE	Germany	03/12/2001	09/12/2007	BURST ARCHITECTURE FOR A FLASH MEMORY
60108388.1-08	AF01076DE	Germany	05/21/2001	01/25/2005	BURST READ INCORPORATING OUTPUT BASED REDUNDANCY
60126800.8	AF01078DE	Germany	07/17/2001	02/21/2007	METHOD TO REDUCE CAPACITIVE LOADING IN FLASH MEMORY X-DECODER FOR ACCURATE VOLTAGE CONTROL AT WORDLINES AND SELECT LINES
60127260.9	AF01085DE	Germany	06/04/2001	03/14/2007	A WORD LINE TRACKING STRUCTURE FOR USE IN AN ARRAY OF FLASH EEPROM MEMORY CELLS
60003451.8	AF01086DE	Germany	09/29/2000	06/18/2003	I/O PARTITIONING AND METHODOLOGY TO REDUCE BAND-TO-BAND TUNNELING CURRENT DURING ERASE
10197225	AF01090DE	Germany	11/14/2001	10/11/2007	VOLTAGE BOOST CIRCUIT USING SUPPLY VOLTAGE DETECTION TO COMPENSATE FOR SUPPLY VOLTAGE VARIATION IN READ MODE VOLTAGES
60202077.8	AF01094DE	Germany	03/14/2002	11/24/2004	SOFT PROGRAM AND SOFT PROGRAM VERIFY OF THE CORE CELLS IN FLASH MEMORY ARRAY
60115716.8	AF01096DE	Germany	12/12/2001	12/07/2005	SIMULTANEOUS FORMATION CHARGE STORAGE AND BITLINE TO WORDLINE ISOLATION
60141035.1	AF01102DE	Germany	08/07/2001	01/06/2010	NON-VOLATILE SONOS SEMICONDUCTOR MEMORY DEVICE
60144340.3	AF01112DE	Germany	11/15/2001	03/30/2011	SYSTEM AND METHOD FOR MULTI-BIT FLASH READS USING DUAL DYNAMIC REFERENCES
60316931.7	AF01116DE	Germany	03/03/2003	10/17/2007	HARD MASK PROCESS FOR MEMORY DEVICE WITHOUT BITLINE SHORTS
10392392.6	AF01132DE	Germany	01/21/2003	02/21/2008	

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10392314.4	AF01134DE	Germany	01/21/2003		METHOD OF MAKING MEMORY WORDLINE HARD MASK EXTENSION
60329993.8	AF01137DE	Germany	02/14/2003	11/11/2009	MEMORY MANUFACTURING PROCESS WITH BITLINE ISOLATION
602004003062.7	AF01169DE	Germany	05/21/2004	11/02/2006	MEMORY WITH A CORE-BASED VIRTUAL GROUND AND DYNAMIC REFERENCE SENSING SCHEME
602004015813.5	AF01182DE	Germany	05/21/2004	08/13/2008	MEMORY DEVICE HAVING HIGH WORK FUNCTION GATE AND METHOD OF ERASING SAME
112004000380.6	AF01186DE	Germany	01/08/2004		CHARGE-TRAPPING MEMORY ARRAYS RESISTANT TO DAMAGE FROM CONTACT HOLE FORMATION
112004000753.4	AF01209DE	Germany	04/13/2004	06/26/2008	METHOD FOR REDUCING SHORT CHANNEL EFFECTS IN MEMORY CELLS AND RELATED STRUCTURE
112005001578.5	AF01232DE	Germany	04/29/2005	05/24/2007	BOND PAD STRUCTURE FOR COPPER METALLIZATION HAVING INCREASED RELIABILITY AND METHOD FOR FABRICATING SAME
112004002832.9	AF01241DE	Germany	04/13/2004	11/29/2012	SECTOR PROTECTION CIRCUIT AND SECTOR PROTECTION METHOD FOR NON-VOLATILE SEMICONDUCTOR STORAGE DEVICE, AND NON- VOLATILE SEMICONDUCTOR STORAGE DEVICE
112004002836.1	AF01248DE	Germany	04/21/2004		NON-VOLATILE SEMICONDUCTOR DEVICE AND METHOD FOR AUTOMATICALLY RECOVERING ERASE FAILURE IN THE DEVICE
112005001526.2	AF01306DE	Germany	06/30/2005		SWITCHABLE MEMORY DIODE- A NEW MEMORY DEVICE
112005001983.7	AF01320DE	Germany	08/08/2005		SYSTEMS AND METHODS FOR ADJUSTING PROGRAMMING THRESHOLDS OF POLYMER MEMORY CELLS
112005002011.8	AF01321CN	Germany	08/08/2005		POLYMER MEMORY DEVICE WITH VARIABLE PERIOD OF RETENTION TIME
602004026934.4	AF01329DE	Germany	08/30/2004	04/28/2010	ERASE METHOD OF A NON-VOLATILE MEMORY DEVICE AND A NON- VOLATILE MEMORY DEVICE
112004003009	AF01338DE	Germany	10/26/2004	12/01/2011	METHOD OF SETTING INFORMATION OF NON-VOLATILE MEMORY AND NON-VOLATILE MEMORY
112005001595.5	AF01361DE	Germany	06/30/2005		METHOD OF IMPROVING ERASE VOLTAGE DISTRIBUTION FOR A FLASH MEMORY ARRAY HAVING DUMMY WORDLINES
602005004553.8	AF01365DE	Germany	04/29/2005	01/29/2009	FLASH MEMORY UNIT AND METHOD OF PROGRAMMING A FLASH MEMORY DEVICE
602004018687.2	AF01372DE	Germany	02/19/2004	01/05/2009	CURRENT-VOLTAGE CONVERTER CIRCUIT AND CONTROL METHOD THEREOF
1720172	AF01377DE	Germany	02/20/2004	06/06/2012	A SEMICONDUCTOR MEMORY STORAGE DEVICE AND ITS REDUNDANCY CONTROL METHOD
602005028333	AF01379DE	Germany	04/29/2005	06/01/2011	METHOD FOR FABRICATING A FLOATING GATE MEMORY CELL
602004039357.6	AF01380DE	Germany	02/20/2004	09/19/2012	SEMICONDUCTOR STORAGE DEVICE AND SEMICONDUCTOR STORAGE DEVICE CONTROL METHOD
112005002275.7	AF01383DE	Germany	09/20/2005	07/04/2013	TECHNIK ZUM LESEN VON MEHRPEGELSPEICHERN MIT VIRTUELLER MASSE
112005001325.1	AF01386DE	Germany	02/11/2005	10/17/2013	ERASE ALGORITHM FOR MULTI-LEVEL BIT FLASH MEMORY
112005003380.5	AF01390DE	Germany	12/20/2005		MULTI-LEVEL ONO FLASH PROGRAM ALGORITHM FOR THRESHOLD WIDTH CONTROL
112004002930.9	AF01402DE	Germany	07/30/2004	06/01/2011	SEMICONDUCTOR DEVICE AND METHOD OF GENERATING SENSE
112004002927.9	AF01403DE	Germany	07/30/2004	03/02/2011	MLC WRITE BUFFER CIRCUITRY
112004002859.0	AF01416DE	Germany	05/12/2004	07/14/2011	IMPROVED NEGATIVE DECODING
112004002852	AF01417DE	Germany	05/11/2004	04/19/2012	HIGH SPEED BOOST OPERATION
112004002856.6	AF01422DE	Germany	05/11/2004	08/19/2010	DUMMY CELL ARRAY BETWEEN CORE AND REFERENCE ARRAYS
112004002851.5	AF01423DE	Germany	05/11/2004		MULTI BIT PROGRAMMING FOR VIRTUAL GROUND ARRAY
112004002857.4	AF01425DE	Germany	05/11/2004	04/26/2007	IMPROVED APPARATUS FOR ADVANCED SECTOR PROTECTION (1)
112004002860.4	AF01427DE	Germany	05/12/2004		IMPROVED SLATCH AND THE LAYOUT
602004032680.1	AF01432DE	Germany	08/31/2004	05/11/2011	THE SEMICONDUCTOR MEMORY STORAGE DEVICE WHICH CARRIED THE NEGATIVE VOLTAGE GENERATING CIRCUIT
602004033496.0	AF01438DE	Germany	12/24/2004	07/13/2011	BIAS APPLICATION METHOD OF STORAGE AND STORAGE
112004003023.4	AF01439DE	Germany	11/30/2004		NON-VOLATILE SELECT GATE IN NAND FLASH MEMORY
112004002928.7	AF01441DE	Germany	07/29/2004		A NON-VOLATILE MEMORY APPARATUS AND ITS CONTROL METHOD
112004002858.2	AF01443DE	Germany	05/11/2004		CARRIER FOR SEMICONDUCTOR DEVICES TO BE STACKED AND FABRICATION METHOD OF THE DEVICE
112004002862.0	AF01446DE	Germany	05/20/2004		SEMICONDUCTOR CHIP ASSEMBLY AND FABRICATION METHOD OF THE SAME
1105000866.5	AF01453DE	Germany	02/11/2005		METHOD AND SYSTEMS FOR HIGH WRITE PERFORMANCE IN MULTI- BIT FLASH MEMORY DEVICES
112004003019.6	AF01454DE	Germany	11/30/2004		NEW MEMORY CELL STRUCTURE IN WHICH HIGH-SPEED WRITING IS POSSIBLE
112004003021.8	AF01455DE	Germany	11/30/2004		NON-VOLATILE SEMICONDUCTOR MEMORY DEVICE
112004002973.2	AF01463DE	Germany	09/30/2004	06/01/2011	FAST PROGRAM MODE IN SO ARCHITECTURE
11200600208.2	AF01467DE	Germany	01/12/2006	04/03/2014	MEMORY DEVICE HAVING TRAPEZOIDAL BITLINES AND METHOD OF FABRICATING SAME
112004003022.6	AF01470DE	Germany	11/30/2004	04/05/2012	SEMICONDUCTOR DEVICE AND CONTROL METHOD THEREOF
602005028587.3	AF01485DE	Germany	12/20/2005	06/15/2011	METHOD OF PROGRAMMING, READING AND ERASING MEMORY- DIODE IN A MEMORY-DIODE ARRAY
112005002818	AF01491DE	Germany	11/10/2005	07/19/2012	DIODE ARRAYS ARCHITECTURE FOR ADDRESSING NANOSCALE RESISTIVE MEMORY ARRAYS
112005003277	AF01523DE	Germany	12/20/2005	10/30/2014	LESEVERSTARKER MIT GROBEM SPANNUNGSHUB
602006042508.2	AF01586DE	Germany	06/30/2006	07/30/2014	METHOD FOR PROGRAMMING A MEMORY DEVICE
112004003005	AF01645DE	Germany	10/26/2004	12/01/2011	NON-VOLATILE MEMORY DEVICE
112005003421.6	AF01653DE	Germany	01/24/2005		SEMICONDUCTOR DEVICE AND METHOD OF FABRICATING THE SAME
602006005080.1	AF01676DE	Germany	07/17/2006	11/05/2008	IMPROVED READ MODE FOR FLASH MEMORY

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112005003436.4	AF01698DE	Germany	01/27/2005		A NON-VOLATILE MEMORY STORAGE DEVICE AND ITS CONTROL METHOD (PLACEMENT FORMATION (STRUCTURE) OF "AN INFORMATION MEMORY CELL OF OPERATION", AND ITS READ/WRITE APPARATUS, AND ITS CONTROL METHOD)
112006000661.4	AF01709DE	Germany	03/22/2006	02/21/2013	VARIABLE BREAKDOWN CHARACTERISTIC DIODE
102005011368.0	AF01759DE	Germany	03/11/2005		AUTOMATIC RESOURCE ASSIGNMENT IN DEVICES HAVING STACKED MODULES
602005031987.5	AF01792DE	Germany	06/28/2005	01/04/2012	MIRRORBIT DEVICE HAVING STI AND DUAL POLY FILMS
602006016445.9	AF01852DE	Germany	07/07/2006	08/25/2010	INTEGRATED CIRCUIT TEST SOCKET
60037786.5	AF02178DE	Germany	11/24/2000	01/22/2009	NONVOLATILE SEMICONDUCTOR MEMORY DEVICE
60021746.9	AF02182DE	Germany	08/18/2000	08/03/2005	NONVOLATILE MEMORY CIRCUIT STORAGE MULTI-
1310994	AF02184DE	Germany	07/17/2000	02/13/2013	NONVOLATILE MEMORY DEVICE AND
60032644.6	AF02186DE	Germany	06/29/2000	12/27/2006	SEMICONDUCTOR MEMORY DEVICE
60216010.3	AF02194DE	Germany	04/25/2002	11/15/2006	READ METHOD FOR DUAL BIT MEMORY CELL
10146013.9	AF02195DE	Germany	09/18/2001	01/29/2009	SEMICONDUCTOR DEVICE AND MANUFACTURING
60217591.7	AF02200DE	Germany	03/18/2002	01/17/2007	MEMORY CONTROLLER FOR MULTI LEVEL
60315508.1	AF02230DE	Germany	12/17/2003	08/08/2007	SEMICONDUCTOR DEVICE AND TEST METHOD
60314287.7	AF02233DE	Germany	12/17/2003	06/06/2007	NONVOLATILE MEMORY AND METHOD AND WRITE METHOD OF THE SAME
10100939	AF02649DE	Germany	01/10/2001	01/10/2001	NONVOLATILE SEMICONDUCTOR MEMORY DEVICE
112009002426.2	AF04025DE	Germany	10/07/2009		REAL-TIME DATA PATTERN ANALYSIS SYSTEM AND METHOD OF OPERATION THEREOF
112004000257.5	AF04043JP	Germany	02/05/2004		RADIATION-SENSITIVE RESIN COMPOSITION, PROCESS FOR PRODUCING THE SAME AND PROCESS FOR PRODUCING SEMICONDUCTOR DEVICE THEREWITH
69517268.9	B001DE	Germany	06/30/1995	05/31/2000	A SELF-ALIGNED BURIED CHANNEL/JUNCTION STACKED GATE FLASH MEMORY CELL
69508273.6	B011/2097DE	Germany	11/08/1995	03/10/1999	NITRIDE ETCH PROCESS WITH CRITICAL DIMENSION (CD) GAIN
69637352.1	B100DE	Germany	07/31/1996	12/05/2007	THREE-DIMENSIONAL NON-VOLATILE MEMORY
69620559.9	B111DE	Germany	06/21/1996	04/10/2002	PROCESS FOR SELF-ALIGNED SOURCE FOR HIGH DENSITY MEMORY
69702195.5	B247ADE	Germany	01/31/1997	05/31/2000	A MULTI-LEVEL FLASH SHIFT REGISTER PAGE BUFFER
69702256.0	B247DE	Germany	01/31/1997	06/07/2000	A METHOD FOR DOUBLE DENSITY FLASH EPROM WITH PAGE MODE PROGRAM AND READ
69603742.4-08	B261DE	Germany	06/21/1996	08/11/1999	A PROGRAM ERASE ALGORITHM THAT GREATLY REDUCES UNDER ERASE IN FLASH MEMORIES
69738821.2	B277DE	Germany	03/25/1997	07/09/2008	A NOVEL PROCESS FOR RELIABLE ULTRATHIN OXYNITRIDE FORMATION
69727071.8	B287DE	Germany	02/28/1997	01/02/2004	A METHOD AND SYSTEM FOR PROVIDING A DOUBLE DIFFUSE IMPLANT JUNCTION IN A VERY SHORT CHANNEL FLASH DEVICE
69702196.3	C072296DE	Germany	03/28/1997	05/31/2000	USING FLOATING GATE DEVICES AS SELECT GATE DEVICES FOR NAND FLASH MEMORY AND ITS BIAS SCHEME
69804122.4	C141496DE	Germany	04/10/1998	03/06/2002	A DUAL SOURCE SIDE POLYSILICON SELECT GATE STRUCTURE AND PROGRAMMING METHOD UTILIZING SINGLE TUNNEL OXIDE FOR NAND ARRAY FLASH MEMORY
0963587	C144496DE	Germany	02/05/1998	01/16/2002	HIGH VOLTAGE NMOS PASS GATE FOR INTEGRATED CIRCUIT WITH HIGH VOLTAGE GENERATOR AND FLASH NON-VOLATILE MEMORY DEVICE HAVING THE PASS GATE
69707502.8	C196596DE	Germany	11/13/1997	10/17/2001	BANK ARCHITECTURE FOR A NON-VOLATILE MEMORY ENABLING SIMULTANEOUS READING AND WRITING
69804013.9	C369297DE	Germany	12/18/1998	02/27/2002	BIASING METHOD AND STRUCTURE FOR REDUCING BAND-TO-BAND AND/OR AVALANCHE CURRENTS DURING THE ERASE OF FLASH MEMORY DEVICE
69825296.9	C526397DE	Germany	08/25/1998	07/28/2004	REDUCTION OF CHARGE LOSS IN NONVOLATILE MEMORY CELLS BY PHOSPHOROUS IMPLANTATION INTO PECVD NITRIDE/OXYNITRIDE FILMS
69841724.0	C627497DE	Germany	12/18/1998	05/20/2010	METHODS AND ARRANGEMENTS FOR IMPROVED FORMATION OF CONTROL AND FLOATING GATES IN NON-VOLATILE MEMORY SEMICONDUCTOR DEVICES
60034369.3	C656497DE	Germany	08/31/2000	04/11/2007	TUNGSTEN GATE MOS TRANSISTOR AND MEMORY CELL AND METHOD OF MAKING SAME
1204989	C695497DE	Germany	06/29/2000	04/02/2014	THIN FLOATING GATE AND CONDUCTIVE SELECT GATE IN SITU
69903966.5	C715497DE	Germany	09/21/1999	11/13/2002	WORDLINE DRIVER FOR FLASH ELECTRICALLY ERASABLE PROGRAMMABLE READ-ONLY MEMORY (EEPROM)
60001587.4	C725497DE	Germany	08/01/2000	03/05/2003	CIRCUIT IMPLEMENTATION TO QUENCH BIT LINE LEAKAGE CURRENT IN PROGRAM AND AUTO PROGRAM DISTURB MODE IN FLASH EPROM USING RESISTOR SOURCE LOAD
69910236.7-08	D016DE	Germany	10/05/1999	08/06/2003	BIT LINE BIASING METHOD TO ELIMINATE PROGRAM DISTURBANCE IN A NON-VOLATILE MEMORY DEVICE AND MEMORY DEVICE EMPLOYING THE SAME
60101319.0	D1030DE	Germany	02/07/2001	11/26/2003	TEMPERATURE COMPENSATED BIAS GENERATOR
69904856.7	D138	Germany	10/05/1999	01/08/2003	SCHEME FOR PAGE ERASE AND ERASE VERIFY IN A NON-VOLATILE MEMORY ARRAY
69905595.4	D139DE	Germany	08/16/1999	02/26/2003	BANK SELECTOR CIRCUIT FOR A SIMULTANEOUS OPERATION FLASH MEMORY DEVICE WITH A FLEXIBLE BANK PARTITION ARCHITETURE
69901513.8	D168DE	Germany	08/16/1999	05/15/2002	SIMULTANEOUS OPERATION FLASH MEMORY DEVICE WITH A FLEXIBLE DEVICE WITH A FLEXIBLE BANK PARTITION ARCHITECTURE
1116236	D169DE	Germany	08/16/1999	05/15/2002	METHOD OF MAKING FLEXIBLY PARTITIONED METAL LINE SEGMENTS FOR A SIMULTANEOUS OPERATION FLASH MEMORY DEVICE WITH A FLEXIBLE BANK PARTITION ARCHITECTURE

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69903576.7	D170DE	Germany	08/16/1999	10/16/2002	MEMORY ADDRESS DECODING CIRCUIT FOR A SIMULTANEOUS OPERATION FLASH MEMORY DEVICE WITH A FLEXIBLE BANK PARTITION ARCHITECTURE
69939491.0	D802DE	Germany	10/27/1999	09/03/2008	METHOD FOR IMPROVING ELECTROSTATIC DISCHARGE (ESD) ROBUSTNESS
60001437.5	D832DE	Germany	05/05/2000	02/26/2003	RAMPED OR STEPPED GATE CHANNEL ERASE FOR FLASH MEMORY APPLICATION
60043444.3	D833DE	Germany	08/29/2000	10/15/2009	1 TRANSISTOR FOR EEPROM APPLICATION
60030461.2	D838DE	Germany	10/24/2000	08/30/2006	SOLID-SOURCE DOPING FOR SOURCE/DRAIN OF FLASH MEMORY
60128896.3	D862DE	Germany	02/27/2001	06/13/2007	NEW METHOD TO FABRICATE A HIGH COUPLING FLASH CELL WITH LESS SILICIDE SEAM PROBLEM
1218941	D877DE	Germany	07/17/2000	04/02/2014	NON-VOLATILE MEMORY HAVING HIGH GATE COUPLING CAPACITANCE
60037901.9	D894DE	Germany	09/29/2000	01/29/2009	METHOD OF MANUFACTURING A SEMICONDUCTOR DEVICE WITH REDUCED ARC LOSS IN PERIPHERAL CIRCUITRY REGION
60037528.5	DA01016DE	Germany	07/14/2000	12/19/2007	METHOD FOR PROVIDING A DOPANT LEVEL FOR POLYSILICON FOR FLASH MEMORY DEVICES
10196140.5	DA01025	Germany	04/03/2001		FLASH MEMORY ARRAY AND A METHOD AND SYSTEM OF FABRICATION THEREOF
60005064.5	E0251DE	Germany	07/14/2000	09/03/2003	FLASH MEMORY ARCHITECTURE EMPLOYING THREE LAYER METAL INTERCONNECT
60101677.7	E0264DE	Germany	02/07/2001	01/02/2004	TRIMMING METHOD FOR WORDLINE BOOSTER TO MINIMIZE PROCESS VARIATION OF BOOSTED WORDLINE VOLTAGE
1282915	E0302EP	Germany	05/01/2001	11/05/2014	UNIFORM BITLINE STRAPPING OF NON-VOLATILE MEMORY CELL
60102466.4	E0462DE	Germany	05/21/2001	03/24/2004	DUAL PORTED CAMS FOR SIMULTANEOUS OPERATION FLASH MEMORY
60143125.1.	F0257DE	Germany	08/07/2001	09/22/2010	METHOD AND SYSTEM FOR EMBEDDED CHIP ERASE VERIFICATION
10297640.6	F0258DE	Germany	12/17/2002		METHOD AND APPARATUS FOR SOFT PROGRAM VERIFICATION IN A MEMORY DEVICE
60204600.9-08	F0262DE	Germany	12/17/2002	06/08/2005	METHOD AND APPARATUS FOR SOFT PROGRAM VERIFICATION IN A MEMORY DEVICE
10297641.4	F0272DE	Germany	12/17/2002		CHARGE INJECTION
1366497	F0274DE	Germany	11/01/2001	06/04/2014	HIGHER PROGRAM VT AND FASTER PROGRAMMING RATES BASED ON IMPROVED ERASE METHODS
60238549.0	F0283DE	Germany	09/27/2002	12/08/2010	SALICIDED GATE FOR VIRTUAL GROUND ARRAYS
60232651.6	F1067DE	Germany	02/19/2002	06/17/2009	THRESHOLD VOLTAGE COMPACTING FOR NON-VOLATILE SEMICONDUCTOR MEMORY DESIGNS
0664604	FMA13-0011US CON	Germany	12/13/1994	03/26/2003	TRANSIMPEDANCE AMPLIFIER
69412360	FMA13-0015EP	Germany	05/26/1994	08/12/1998	POWER LINE CONNECTION CIRCUIT AND POWER LINES SWITCH IC FOR THE SAME
102008006648.6	FMA13-00311DE	Germany	01/29/2008		SIMULATOR ENGINE DEVELOPMENT SYSTEM AND ...
102009018928.9	FMA13-00375DE	Germany	04/28/2009		LINE PLOTTING METHOD
0990987	FMA13-00448US	Germany	04/22/1999	03/22/2006	ELECTRONIC DEVICE WITH FLASH MEMORY BUILT-IN
2345148	FMA13-00472CN	Germany	11/11/2008	09/03/2014	METHOD OF DETECTING AN OPERATING CONDITION OF AN ELECTRIC STEPPER MOTOR
2381450	FMA13-00503CN DIV	Germany	02/03/2011	07/16/2014	SEMICONDUCTOR MEMORY
0845864	FMA13-0051US	Germany	07/11/1997	02/09/2005	LEVEL CONVERTER AND SEMICONDUCTOR DEVICE
1239573	FMA13-00539CN	Germany	01/07/2002	05/26/2010	OVERVOLTAGE PROTECTOR FOR ELECTRIC POWER SYSTEM, AC/DC CONVERTER AND DC/DC CONVERTER CONSTITUTING THE POWER SYSTEM
10150472.1	FMA13-00540US	Germany	10/16/2001		SEMICONDUCTOR INTEGRATED CIRCUIT DEVICE WITH VARIABLE GAIN AMPLIFIER
60205518	FMA13-00544DE	Germany	03/18/2002	08/17/2005	MODE SWITCHING METHOD FOR PLL CIRCUIT AND MODE CONTROL CIRCUIT FOR PLL CIRCUIT
1324477	FMA13-00551CN	Germany	12/06/2002	08/09/2006	BIPOLAR SUPPLY VOLTAGE GENERATOR AND SEMICONDUCTOR DEVICE FOR THE SAME
0878910	FMA13-0063US	Germany	11/10/1997	05/23/2007	SKEW-REDUCTION CIRCUIT
1016969	FMA13-0076US	Germany	12/22/1999	03/24/2004	MICROCONTROLLER PROVIDED WITH SUPPORT FOR DEBUGGING
19950255	FMA13-0083US	Germany	10/18/1999	05/13/2004	MIKROPROZESSOR
1530293	FMA13-0089DE	Germany	03/29/2000	01/24/2007	VOLTAGE CONTROLLED OSCILLATOR CIRCUIT
1058385	FMA13-0089US	Germany	03/29/2000	06/01/2005	COMPARATOR CIRCUIT
10012079	FMA13-0092US	Germany	03/14/2000	02/17/2005	TAKTSTEUERSCHALTUNG UND- VERFAHREN
1227591	FMA13-0093CN	Germany	08/18/2000	01/25/2006	FREQUENCY MEASUREMENT CIRCUIT??
1202245	FMA13-0110US	Germany	05/02/2002	10/05/2011	DOT-INVERSION DATA DRIVER FOR LIQUID CRYSTAL DISPLAY DEVICE WITH REDUCED POWER CONSUMPTION
1164701	FMA13-0115US	Germany	05/09/2001	09/13/2006	FRACTIONAL-N-PLL FREQUENCY SYNTHESIZER AND PHASE ERROR CANCELING METHOD THEREFOR
1239574	FMA13-0122CN	Germany	03/05/2002	05/16/2007	DC-DC CONVERTER, POWER SUPPLY CIRCUIT AND METHOD FOR CONTROLLING THE SAME
1826775	FMA13-0132DE DIV	Germany	01/30/2002	09/07/2011	NONVOLATILE SEMICONDUCTOR MEMORY DEVICE
1826776	FMA13-0132DE DIV1	Germany	01/30/2002	04/27/2011	NONVOLATILE SEMICONDUCTOR MEMORY DEVICE
1830364	FMA13-0132DE DIV2	Germany	01/30/2002	12/10/2008	NONVOLATILE SEMICONDUCTOR MEMORY DEVICE
10253333.4	FMA13-0143US	Germany	11/14/2002		RECEIVING CIRCUIT
1349106	FMA13-0158CN	Germany	01/31/2003	12/14/2005	FINGER MOVEMENT DETECTION METHOD AND APPARATUS
1435694	FMA13-0177CN	Germany	12/23/2003	08/30/2006	SPREAD SPECTRUM CLOCK GENERATION CIRCUIT JITTER GENERATION CIRCUIT AND SEMICONDUCTOR DEVICE
1641124	FMA13-0177DE	Germany	12/23/2003	06/03/2009	SPREAD SPECTRUM CLOCK GENERATION CIRCUIT
1672800	FMA13-0177DE1	Germany	12/23/2003	08/19/2009	JITTERY GENERATION CIRCUIT

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60343962.4	FMA13-0178US	Germany	03/03/2003	05/01/2013	VARIABLES MOS-KAPAZITÄTSBAUELEMENT
1657821	FMA13-0197DE	Germany	11/28/2003	05/23/2007	SD MODULATOR OF PLL CIRCUIT
1830196	FMA13-0200DE	Germany	06/16/2004	09/19/2007	TEST MODE ACTIVATION BY PHASE COMPARISON
1557682	FMA13-0200US DIV	Germany	06/16/2004	09/19/2007	TEST MODE ACTIVATION BY PHASE COMPARISON
1596208	FMA13-0211CN	Germany	04/04/2005	07/29/2009	CAPACITANCE DIFFERENCE DETECTING CIRCUIT AND MEMS SENSOR
1857826	FMA13-0211DE	Germany	04/04/2005	07/29/2009	CAPACITANCE DIFFERENCE DETECTING CIRCUIT AND MEMS SENSOR
1612682	FMA13-0227CN	Germany	01/26/2005	08/20/2008	DYNAMIC MEMORY RECONFIGURATION
1906312	FMA13-0227DE	Germany	01/26/2005	08/20/2008	DYNAMIC MEMORY CONFIGURATION
1689088	FMA13-0238DE	Germany	05/17/2005	09/02/2009	SPREAD SPECTRUM CLOCK GENERATION CIRCUIT AND A METHOD OF CONTROLLING THEREOF
1708359	FMA13-0248US	Germany	08/08/2005	03/14/2012	AMPLIFICATION CIRCUIT AND CONTROL METHOD OF AMPLIFICATION
102006010284.3	FMA13-0256US	Germany	03/02/2006		SEMICONDUCTOR DEVICE WITH OPERATION MODE SET BY EXTERNAL RESISTOR
1748562	FMA13-0266CN	Germany	11/01/2005	05/07/2008	CLOCK GENERATING CIRCUIT AND CLOCK GENERATING METHOD
1764922	FMA13-0269CN	Germany	12/13/2005	10/29/2008	CLOCK GENERATION CIRCUIT AND CLOCK GENERATION METHOD
1832985	FMA13-0287CN	Germany	09/26/2006	07/04/2012	RECONFIGURABLE CIRCUIT
2107681	FMA13-0289DE	Germany	08/21/2006	07/19/2007	PRESCALER CIRCUIT AND BUFFER CIRCUIT
60143856.6	G0074DE	Germany	12/14/2001	01/12/2011	SOURCE DRAIN IMPLANT DURING ONO FORMATION FOR IMPROVED ISOLATION OF SONOS DEVICES
60302473.4	G0391DE	Germany	06/10/2003	11/23/2005	BUILT-IN-SELF-TEST (BIST) OF FLASH MEMORY CELLS AND IMPLEMENTATION OF BIST INTERFACE
60235721.7	G0689DE	Germany	12/11/2002	03/10/2010	SHALLOW TRENCH ISOLATION APPROACH FOR IMPROVED STI CORNER ROUNDING
10393870.2	G0730DE	Germany	09/24/2003	05/16/2012	METHOD AND SYSTEM FOR REDUCING CONTACT DEFECTS USING NON CONVENTIONAL CONTACT FORMATION METHOD FOR SEMICONDUCTOR CELLS
112004000254	G0752DE	Germany	01/08/2004	02/16/2012	IMPROVED PERFORMANCE IN FLASH MEMORY DEVICES
1497833	G0861DE	Germany	02/14/2003	12/08/2008	IMPROVED ERASE METHOD FOR SINGLE SIDED MIRROR OPERATION
60329834.6	G0862DE	Germany	02/14/2003	10/01/2009	REFRESH SCHEME FOR DYNAMIC PAGE PROGRAMMING
10392492.2	G0864DE	Germany	02/14/2003		REFRESH SCHEME FOR DYNAMIC PAGE PROGRAMMING
60330499.0	G0865DE	Germany	07/10/2003	12/02/2009	METHOD AND SYSTEM FOR DEFINING A REDUNDANCY WINDOW AROUND A PARTICULAR COLUMN IN A MEMORY ARRAY
60303511.6	G0866DE	Germany	04/22/2003	02/08/2006	STEPPED PRE-ERASE VOLTAGE FOR MIRRORBIT ERASE
10392271.7	G1255DE	Germany	02/05/2003		PARTIAL PAGE PROGRAMMING OF MULTI LEVEL FLASH
60331097.4	H0297DE	Germany	07/10/2003	02/09/2010	CONTROL OF MEMORY ARRAYS UTILIZING ZENER DIODE-LIKE DEVICES
112005002286.2	H0325DE	Germany	09/19/2005		CONTROL OF MEMORY DEVICES POSSESSING VARIABLE RESISTANCE CHARACTERISTICS
112005000724.3	H0346DE	Germany	02/11/2005		IN-SITU SURFACE TREATMENT FOR MEMORY CELL FORMATION
112004000423.3	H0354DE	Germany	03/01/2004		SPIN ON POLYMERS FOR ORGANIC MEMORY DEVICES
112005000747.2	H0368DE	Germany	02/11/2005		POLYMER DIELECTRICS FOR ME ARRAY INTERN CONNECT
112004001234.1	H0422DE	Germany	05/11/2004		METHOD AND SYSTEM FOR MANUFACTURING POLYMER MEMORY DEVICE IN VIA OPENING
112004001855.2	H0423DE	Germany	09/16/2004		SELF ASSEMBLY OF CONDUCTING POLYMER FOR FORMATION OF POLYMER MEMORY CELL
60331462.7	H0434DE	Germany	07/10/2003	02/24/2010	STACKED ORGANIC MEMORY DEVICES AND METHODS OF OPERATING AND FABRICATING
602004005333.3	H0437DE	Germany	05/11/2004	03/14/2007	PLANAR POLYMER MEMORY DEVICE
1556887	H0514DE	Germany	06/10/2003	06/18/2009	NITROGEN OXIDATION TO REDUCE ENCROACHMENT
112004001628	H0541DE	Germany	07/15/2004	11/27/2014	LOW POWER CHARGE PUMP
60317930.4	H0570DE	Germany	07/24/2003	12/05/2007	IMPROVED SYSTEM FOR PROGRAMMING A NON-VOLATILE MEMORY CELL
60321716.8	H0575DE	Germany	07/24/2003	06/18/2008	IMPROVED PRE-CHARGE METHOD FOR READING A NON-VOLATILE MEMORY CELL ARRAY WITH STAGGERED LOCAL INTERCONNECT STRUCTURE
602004007815.8	H0576DE	Germany	09/16/2004	07/25/2007	RECESS CHANNEL FLASH ARCHITECTURE FOR REDUCED SHORT CHANNEL EFFECT
112004001922	H0577DE	Germany	09/16/2004	01/22/2009	METHOD OF PROGRAMMING DUAL CELL MEMORY DEVICE TO STORE MULTIPLE DATA STATES PER CELL
112004000658	H0587DE	Germany	03/08/2004	12/31/2014	METHOD OF DUAL CELL MEMORY DEVICE OPERATION FOR IMPROVED END-OF-LIFE READ MARGIN
112004000703.8	H0588DE	Germany	03/08/2004		IMPROVED METHOD FOR READING A NON-VOLATILE MEMORY CELL ADJACENT TO AN INACTIVE REGION OF A NON-VOLATILE MEMORY CELL ARRAY
602004033624.6	H0625DE	Germany	01/08/2004	07/27/2011	MEMORY DEVICE AND METHOD USING POSITIVE GATE STRESS TO RECOVER OVERERASED CELL
112004001862.5	H0626DE	Germany	09/16/2004		IMPROVED PERFORMANCE IN FLASH MEMORY DEVICES
112004000248.6	H0671DE	Germany	01/08/2004		CASCADE AMPLIFIER CIRCUIT FOR PRODUCING A FAST, STABLE AND ACCURATE BITLINE VOLTAGE
60327239.8	H1203DE	Germany	07/10/2003	04/15/2009	SELECTION CIRCUIT FOR ACCURATE MEMORY READ OPERATIONS
112004000268.0	H1204DE	Germany	01/08/2004		CIRCUIT FOR ACCURATE MEMORY READ OPERATIONS
60325509.4	H1205DE	Germany	07/24/2003	01/05/2009	PECVD SILICON-RICH OXIDE LAYER FOR REDUCED UV CHARGING
602004033102.3	H1368DE	Germany	06/18/2004	06/15/2011	NON-VOLATILE MEMORY DEVICE
112004001049	H1414DE	Germany	06/05/2004	02/24/2011	FLASH MEMORY DEVICE
112004002399.8	H1415DE	Germany	10/26/2004		CIRCUIT FOR FAST AND ACCURATE MEMORY READ OPERATIONS
1602109	H1513DE	Germany	03/01/2004	10/15/2008	MEMORY CELL STRUCTURE HAVING NITRIDE LAYER WITH REDUCED CHARGE LOSS AND METHOD FOR FABRICATING SAME
112004001510.3	H1862DE	Germany	08/31/2004		FAST, ACCURATE AND LOW POWER SUPPLY VOLTAGE BOOSTER USING A/D CONVERTER
112004000588.4	H1892DE	Germany	03/08/2004		

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1434232	H1979DE	Germany	08/13/2001	09/19/2007	MEMORY CELL
112005001008.2	H1984DE	Germany	02/11/2005		METHODS AND APPARATUS FOR WORDLINE PROTECTION IN FLASH MEMORY DEVICES
602005020270.6	H1993DE	Germany	02/11/2005	04/16/2010	BITLINE IMPLANT UTILIZING DUAL POLY
602006041959.7	H1998DE	Germany	04/04/2006	06/18/2014	A NON-CRITICAL COMPLEMENTARY MASKING METHOD FOR POLY-1 DEFINITION IN FLASH MEMORY DEVICE FABRICATION
69939375.2	JC688497DE	Germany	02/11/1999		ELIMINATION OF POLY-CAP FOR EASY POLY1 CONTACT FOR NAND PRODUCT
10 2005 020062.1	JDE0584DE	Germany	04/29/2005		PORTABLE WIRELESS DATA STORAGE DEVICE
60235721	P116WO-DE	Germany	12/11/2002	03/17/2010	A SHALLOW TRENCH ISOLATION APPROACH FOR IMPROVED STI CORNER ROUNDING
60122059.5	P-2505DE	Germany	06/15/2001	03/08/2007	Transfer In Progress - Incomplete Record
20051037072	P-6415US	Germany	08/12/2004	08/22/2006	DYNAMIC MATCHING OF SIGNAL PATH AND REFERENCE PATH FOR SENSING
60318714.5	SE0002DE	Germany	03/11/2003	01/08/2009	A SYSTEM AND METHOD OF ERASE VOLTAGE CONTROL DURING MULTIPLE SECTOR ERASE OF A FLASH MEMORY DEVICE
112013003845.5	SP09-0058DE	Germany	07/31/2013		POWER SAVINGS APPARATUS AND METHOD FOR MEMORY DEVICE USING DELAY LOCKED LOOP
112013003828.5	SP12-0021DE	Germany	07/29/2013		BITLINE VOLTAGE REGULATION IN NON-VOLATILE MEMORY
10 2015 203 202.7	SP13-0036DE	Germany	02/23/2015		MEMORY SUBSYSTEM WITH WRAPPED-TO-CONTINUOUS READ
69429973.1	TT0381US	Germany	12/12/1994	02/27/2002	FLASH EPROM DEVICES
69620283.2	TT0497US DIV	Germany	01/30/1996	04/03/2002	A NON-VOLATILE MEMORY DEVICES HAVING A FLOATING GATE WITH ENHANCED CHARGE RETENTION
69708669.0	TT1997DE	Germany	09/29/1997	11/28/2001	MEMORY BLOCK SELECT USING MULTIPLE WORD LINES TO ADDRESS A SINGLE MEMORY CELL ROW
1218938	DA01016IE	Ireland	07/14/2000	12/19/2007	METHOD FOR PROVIDING A DOPANT LEVEL FOR POLYSILICON FOR FLASH MEMORY DEVICES
145531	AF02593IL	Israel	01/18/2000		SHARED MEMORY APPARATUS AND METHOD FOR MULTIPROCESSOR SYSTEMS
134304	P-1025IL	Israel	08/02/1998	12/09/2004	TWO BIT NON-VOLATILE ELECTRICALLY ERASABLE AND PROGRAMMABLE SEMICONDUCTOR MEMORY CELL UTILIZING ASYMMETRICAL CHARGE TRAPPING
19980124846	P-1164IL	Israel	06/10/1998		AN NROM FABRICATION METHOD
125604	P-1326IL	Israel	07/30/1998	06/29/2004	NON-VOLATILE ELECTRICALLY ERASABLE AND PROGRAMMABLE SEMICONDUCTOR MEMORY CELL UTILIZING ASYMMETRICAL CHARGE TRAPPING
144680	P-1907IL	Israel	08/01/2001	10/26/2005	METHOD FOR INITIATING A RETRIEVAL PROCEDURE IN VIRTUAL GROUND ARRAYS
148959	P-2448US CON	Israel	04/05/2001	12/03/2002	ARCHITECTURE AND SCHEME FOR A NON-STROBED READ SEQUENCE
148960	P-2448US CON	Israel	11/21/2002		PROGRAMMING AND ERASING METHODS FOR A REFERENCE CELL OF AN NROM ARRAY
152465	P-4006IL	Israel	10/24/2002	11/02/2006	METHOD FOR ERASING A MEMORY CELL
152913	P-4007IL	Israel	11/18/2002		PROTECTIVE LAYER IN MEMORY DEVICE AND METHOD THEREFOR
154205	P-4676IL	Israel	01/30/2003	11/21/2006	METHOD FOR OPERATING A MEMORY DEVICE
0677850	A960/2054IT	Italy	03/23/1995	05/09/2001	METHOD AND APPARATUS FOR PROGRAMMING MEMORY DEVICES
1116240	C715497	Italy	09/21/1999	11/13/2002	WORDLINE DRIVER FOR FLASH ELECTRICALLY ERASABLE PROGRAMMABLE READ-ONLY MEMORY (EEPROM)
1203378	C725497	Italy	08/01/2000	03/05/2003	CIRCUIT IMPLEMENTATION TO QUENCH BIT LINE LEAKAGE CURRENT IN PROGRAM AND AUTO PROGRAM DISTURB MODE IN FLASH EPROM USING RESISTOR SOURCE LOAD
1125302	D138	Italy	10/20/1998	11/30/1999	SCHEME FOR PAGE ERASE AND ERASE VERIFY IN A NON-VOLATILE MEMORY ARRAY
1125301	D170	Italy	08/16/1999	10/16/2002	MEMORY ADDRESS DECODING CIRCUIT FOR A SIMULTANEOUS OPERATION FLASH MEMORY DEVICE WITH A FLEXIBLE BANK PARTITION ARCHITECTURE
1830364	FMA13-0132IT DIV2	Italy	01/30/2002	12/10/2008	NONVOLATILE SEMICONDUCTOR MEMORY DEVICE
1349106	FMA13-0158EP	Italy	01/31/2003	12/14/2005	FINGER MOVEMENT DETECTION METHOD AND APPARATUS
1553636	FMA13-0178GB	Italy	03/03/2003	05/01/2013	MOS TYPE VARIABLE CAPACITANCE DEVICE
124.627/86	A342/1324	Japan	05/28/1986		HIGH VOLTAGE ISOLATION ON CMOS NETWORKS
2648749	A413/1408JP	Japan	12/15/1986	05/16/1997	AN IMPROVED MOS-TYPE INTEGRATED CIRCUIT STRUCTURE AND METHOD OF CONSTRUCTING SAME
49766/1989	A628C/1701JP	Japan	03/01/1989		EPROM ELEMENT EMPLOYING SELF-ALIGNING PROCESS
2911476	A629/1703JP	Japan	04/20/1989	04/09/1999	TWO-STEP 80A TUNNEL OXIDATION WITH PASSIVATION
241654/1989	A674/1751JP	Japan	09/18/1989		ONE TRANSISTOR FLASH EPROM CELL
132411/1990	A719/1812JP	Japan	05/22/1990		METHOD OF FORMING AND REMOVING POLYSILICON LIGHTLY DOPED DRAIN SPACERS
341158/1990	A738/1820JP	Japan	11/29/1990		PROCESS FOR FABRICATING A CONTROL GATE FOR A FLOATING GATE FET
236909/1990	A747/1841US	Japan	09/05/1990		ASYNCHRONOUS/SYNCHRONOUS PIPELINE DUAL MODE MEMORY ACCESS CIRCUIT
213576/1990	A750/1853JP	Japan	08/09/1990		SEMICONDUCTOR ANTIFUSE STRUCTURE AND METHOD
3183672	A767/1836JP	Japan	04/04/1991	04/27/2001	CHARGE PUMP APPARATUS
3260144	A768/1837JP	Japan	04/02/1991	12/14/2001	CHARGE PUMP APPARATUS
192406/1991	A807/1897JP	Japan	08/01/1991		POWER CONTROL CIRCUIT
53656/1992	A808/1864JP	Japan	03/13/1992		METHOD OF PAGE-MODE PROGRAMMING FLASH EEPROM CELL ARRAYS
3763590	A887JP	Japan	10/20/1993	01/27/2006	VPP POWER SUPPLY
3604166	A888/1987JP	Japan	10/21/1993	10/08/2004	DRAIN POWER SUPPLY
3638623	A889/1988JP	Japan	10/20/1993	01/21/2005	NEGATIVE POWER SUPPLY
134310/1994	A900/1996JP	Japan	06/16/1994		OUTPUT BUFFER CIRCUIT FOR LOW VOLTAGE EPROM

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119954/1994	A901/1997JP	Japan	06/01/1994		A SYSTEM FOR ALLOWING A CONTENT ADDRESSABLE MEMORY TO OPERATE WITH MULTIPLE POWER VOLTAGE LEVELS
194124/1994	A927/2024JP	Japan	08/18/1994		DISTRIBUTED NEGATIVE GATE POWER SUPPLY
3768251	A928/2025JP	Japan	08/22/1994	02/10/2006	INDEPENDENT ARRAY GROUNDS FOR FLASH EEPROM WITH PAGED ERASE ARCHITECTURE
3657290	A931/2028JP	Japan	08/24/1994	03/18/2005	SECTOR-BASED REDUNDANCY ARCHITECTURE
3813640	A938/2033JP	Japan	11/29/1994	06/09/2006	PROGRAMMED REFERENCE
114736/2006	A938/2033JP DIV	Japan	11/29/1994		PROGRAMMED REFERENCE
294652/1994	A939/2034JP	Japan	11/29/1994		BOOSTED AND REGULATED GATE POWER SUPPLY WITH REFERENCE TRACKING FOR MULTI-DENSITY AND LOW VOLTAGE SUPPLY MEMORIES
98394/1995	A956JP	Japan	04/24/1995		METHOD AND SYSTEM FOR PROTECTING STACKED GATE EDGE
160563/1995	A959/2050	Japan	06/27/1995		FLASH EEPROM ARRAY WITH FLOATING SUBSTRATE ERASE OPERATION
3741744	A960/2054JP	Japan	04/12/1995	11/18/2005	METHOD AND APPARATUS FOR PROGRAMMING MEMORY DEVICES
165526/1995	A975/2066	Japan	06/30/1995		MULTISTEPPED THRESHOLD CONVERGENCE FOR A FLASH MEMORY ARRAY
163415/1995	A976/2067	Japan	06/29/1995		HIGH ENERGY BURIED LAYER IMPLANT TO PROVIDE A LOW RESISTANCE P-WELL IN A FLASH EPROM ARRAY
5185710	A976/2067JP DIV	Japan	06/30/2008	01/25/2013	ELECTRICAL PATH AND METHOD OF ERASING CHARGE FROM FLOATING GATES OF MEMORY CELLS
4557482	AF01002JP	Japan	10/07/2000	07/30/2010	LOW VOLTAGE READ CASCODE FOR 2V/3V AND DIFFERENT BANK COMBINATIONS WITHOUT METAL OPTIONS FOR A SIMULTANEOUS OPERATION FLASH MEMORY DEVICE
2001-532396	AF01006JP	Japan	10/09/2000		REDUNDANT DUAL BANK ARCHITECTURE FOR A SIMULTANEOUS OPERATION FLASH MEMORY
2001-562498	AF01036JP	Japan	02/07/2001		WORDLINE DRIVER FOR FLASH MEMORY READ MODE
4907815	AF01054JP	Japan	10/16/2000	01/20/2012	PROCESS FOR FABRICATING ONO FLOATING-GATE ELECTRODE IN TWO-BIT EEPROM DEVICE
2001-569874	AF01064JP	Japan	03/20/2001		METHOD FOR FORMING HIGH QUALITY MULTIPLE THICKNESS OXIDE LAYERS USING HIGH TEMPERATURE DESCUM
4755380	AF01066JP	Japan	03/20/2001	08/24/2011	METHOD FOR FORMING HIGHQUALITY MULTIPLE THICKNESS OXIDE LAYERS BY REDUCING DESCUM INDUCED DEFECTS
4744761	AF01072JP	Japan	02/05/2001	05/20/2011	VOLTAGE BOOST LEVEL CLAMPING CIRCUIT FOR A FLASH MEMORY
4916084	AF01073JP	Japan	07/31/2001	02/03/2012	WORD LINE DECODING ARCHITECTURE IN A FLASH MEMORY
5059199	AF01073JP DIV	Japan	07/31/2001	08/10/2012	CMOS DECODING CIRCUIT
4744765	AF01075JP	Japan	03/12/2001	05/20/2011	MULTIPLE BANK SIMULTANEOUS OPERATION FOR A FLASH MEMORY
4737917	AF01076JP	Japan	05/21/2001	05/13/2011	BURST ARCHITECTURE FOR A FLASH MEMORY
5406420	AF01078JP	Japan	07/17/2001	11/08/2013	BURST READ INCORPORATING OUTPUT BASED REDUNDANCY
2012-118740	AF01078JP DIV	Japan	07/17/2001		BURST READ INCORPORATING OUTPUT BASED REDUNDANCY
4737918	AF01085JP	Japan	06/04/2001	05/13/2011	METHOD TO REDUCE CAPACITIVE LOADING IN FLASH MEMORY X-DECODER FOR ACCURATE VOLTAGE CONTROL AT WORDLINES AND SELECT LINES
4757422	AF01086JP	Japan	09/29/2000	06/10/2011	A WORD LINE TRACKING STRUCTURE FOR USE IN AN ARRAY OF FLASH EEPROM MEMORY CELLS
2001-566166	AF01088JP	Japan	03/05/2001		NAND FLASH MEMORY
2007-229585	AF01088JP DIV	Japan	09/04/2007		METHOD FOR MANUFACTURING NAND FLASH MEMORY
2010-224726	AF01088JP DIV2	Japan	03/05/2001		SINGLE TUNNEL GATE OXIDATION PROCESS FOR FABRICATING AND FLASH MEMORY
2002-578508	AF01090JP	Japan	11/14/2001		I/O PARTITIONING AND METHODOLOGY TO REDUCE BAND-TO-BAND TUNNELING CURRENT DURING ERASE
2003-517883	AF01094JP	Japan	03/14/2002		VOLTAGE BOOST CIRCUIT USING SUPPLY VOLTAGE DETECTION TO COMPENSATE FOR SUPPLY VOLTAGE VARIATION IN READ MODE VOLTAGES
4068464	AF01096JP	Japan	12/12/2001	01/18/2008	THE SOFT PROGRAM AND SOFT PROGRAM CERTIFICATION OF A CORE CELL IN A FLASH
5132024	AF01102JP	Japan	08/07/2001	11/16/2012	METHOD OF FORMING NON-VOLATILE SEMICONDUCTOR MEMORY DEVICE
JP2003-585104	AF01116JP	Japan	03/03/2003		SYSTEM AND METHOD FOR MULTI-BIT FLASH READS USING DUAL DYNAMIC REFERENCES
4681227	AF01124JP	Japan	12/11/2002	02/10/2011	MONOS DEVICE HAVING BURIED METAL SILICIDE BIT LINE
JP2003-577341	AF01132JP	Japan	01/21/2003		HARD MASK PROCESS FOR MEMORY DEVICE WITHOUT BITLINE SHORTS
JP2003-581243	AF01134JP	Japan	01/21/2003		METHOD OF MAKING MEMORY WORDLINE HARD MASK EXTENSION
JP2003-585178	AF01137JP	Japan	02/14/2003		MEMORY MANUFACTURING PROCESS WITH BITLINE ISOLATION
JP2004-530795	AF01165JP	Japan	06/10/2003		COLUMN-DECODING AND PRECHARGING IN A FLASH MEMORY DEVICE
4601614	AF01169JP	Japan	05/21/2004	10/08/2010	MEMORY WITH A CORE-BASED VIRTUAL GROUND AND DYNAMIC REFERENCE SENSING SCHEME
5255207	AF01186JP	Japan	01/08/2004	04/26/2013	MEMORY ARRAY AND ITS MANUFACTURING METHOD
5258193	AF01209JP	Japan	04/13/2004	05/02/2013	THE MANUFACTURING METHOD FOR FLOATING GATE TAPE
2006-549303	AF01214JP	Japan	12/17/2004		EFFICIENT USE OF WAFER AREA WITH DEVICE UNDER THE PAD APPROACH
2006-551082	AF01220JP	Japan	12/17/2004		STRUCTURE AND METHOD FOR LOW VSS RESISTANCE AND REDUCED DIBL IN A FLOATING GATE MEMORY CELL
520299/2007	AF01232JP	Japan	04/29/2005		BOND PAD STRUCTURE FOR COPPER METALLIZATION HAVING INCREASED RELIABILITY AND METHOD FOR FABRICATING SAME
2006-511368	AF01240JP	Japan	03/26/2004		ABORT CIRCUIT FOR MLC PROGRAMMING
5270627	AF01240JP DIV	Japan	09/01/2010	05/17/2013	SEMICONDUCTOR DEVICE

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PATENT OR APPL NO.	SPANSION REFERENCE NO.	COUNTRY	FILING DATE	ISSUE DATE	TITLE
4642017	AF01241JP	Japan	04/13/2004	12/10/2010	SECTOR PROTECTION CIRCUIT AND SECTOR PROTECTION METHOD FOR NON-VOLATILE SEMICONDUCTOR STORAGE DEVICE, AND NON-VOLATILE SEMICONDUCTOR STORAGE DEVICE
4642018	AF01248JP	Japan	04/21/2004	12/10/2010	NON-VOLATILE SEMICONDUCTOR DEVICE AND METHOD FOR AUTOMATICALLY RECOVERING ERASE FAILURE IN THE DEVICE
4757196	AF01273JP	Japan	07/02/2004	06/10/2011	MEMORY SYSTEM AND TEST METHOD THEREOF
4139421	AF01274JP	Japan	08/30/2004	06/13/2008	IMPROVEMENT OF THE REDUNDANT EFFICIENCY FOR THE SEMICONDUCTOR MEMORY
2006-537605	AF01276JP	Japan	09/29/2004		SEMICONDUCTOR DEVICE AND SEMICONDUCTOR DEVICE MANUFACTURING METHOD
5529216	AF01276JP DIV	Japan	09/29/2004	04/25/2014	SEMICONDUCTOR DEVICE AND SEMICONDUCTOR DEVICE MANUFACTURING METHOD
4642895	AF01278JP	Japan	03/22/2006	12/10/2010	TEMPERATURE COMPENSATION OF THIN FILM DIODE VOLTAGE THRESHOLD IN MEMORY SENSING CIRCUIT
523957/2008	AF01285	Japan	07/17/2006		PROGRAM/ERASE WAVESHAPING CONTROL TO INCREASE DATA RETENTION OF A MEMORY CELL
5085530	AF01286JP	Japan	03/22/2006	09/14/2012	VARIABLE BREAKDOWN CHARACTERISTIC DIODE
4927727	AF01306JP	Japan	06/30/2005	02/17/2012	SWITCHABLE MEMORY DIODE- A NEW MEMORY DEVICE
4750119	AF01320JP	Japan	08/08/2005	08/17/2011	SYSTEMS AND METHODS FOR ADJUSTING PROGRAMMING THRESHOLDS OF POLYMER MEMORY CELLS
5255276	AF01321GB	Japan	08/08/2005	04/26/2013	POLYMER MEMORY WITH VARIABLE DATA RETENTION TIME
5162129	AF01327JP	Japan	06/14/2004	12/21/2012	SEMICONDUCTOR DEVICE AND SEMICONDUCTOR DEVICE MANUFACTURING METHOD
5552521	AF01327JP DIV	Japan	06/14/2004	05/30/2014	SEMICONDUCTOR DEVICE MANUFACTURING METHOD
4668199	AF01329JP	Japan	08/30/2004	01/21/2011	ERASE METHOD OF A NON-VOLATILE MEMORY DEVICE AND A NON-VOLATILE MEMORY DEVICE
4499111	AF01338JP	Japan	10/26/2004	04/23/2010	METHOD OF SETTING INFORMATION OF NON-VOLATILE MEMORY AND NON-VOLATILE MEMORY
4895815	AF01342JP CIP	Japan	08/12/2005	01/06/2012	SEMICONDUCTOR DEVICE AND WORD LINE BOOSTING METHOD
4698592	AF01343JP	Japan	06/25/2004	03/11/2011	VOLTAGE CONTROL CIRCUIT AND SEMICONDUCTOR DEVICE
5255609	AF01343JP DIV	Japan	08/12/2010	04/26/2013	VOLTAGE CONTROL CIRCUIT AND VOLTAGE CONTROL METHOD
4642030	AF01346JP	Japan	09/30/2004	12/10/2010	SEMICONDUCTOR DEVICE AND METHOD FOR CONTROLLING THE SAME
4653747	AF01349JP	Japan	07/23/2004	12/24/2010	FILE MANAGEMENT FOR RECOVERING FROM SUDDEN POWER OFF
2006-542176	AF01351JP	Japan	10/29/2004		MULTICHIP PACKAGE AND MANUFACTURING METHOD THEREOF
2007-520416	AF01361JP	Japan	06/30/2005		METHOD OF IMPROVING ERASE VOLTAGE DISTRIBUTION FOR A FLASH MEMORY ARRAY HAVING DUMMY WORDLINES
2007-524789	AF01365JP	Japan	04/29/2005		FLASH MEMORY UNIT AND METHOD OF PROGRAMMING A FLASH MEMORY DEVICE
2006-537604	AF01370JP	Japan	09/29/2004		BL SHIELD
4680195	AF01371JP	Japan	06/25/2004	02/10/2011	SEMICONDUCTOR DEVICE AND SOURCE VOLTAGE CONTROL METHOD
4541355	AF01372JP	Japan	02/19/2004	07/02/2010	CURRENT-VOLTAGE CONVERTER CIRCUIT AND CONTROL METHOD THEREOF
4642077	AF01379JP	Japan	04/29/2005	12/10/2010	FLOATING GATE MEMORY CELL
5452441	AF01379JP DIV	Japan	10/07/2010	01/10/2014	METHOD FOR FABRICATING FLOATING GATE MEMORY CELL AND FLOATING GATE MEMORY CELL
4467565	AF01380JP	Japan	02/20/2004	03/05/2010	A SEMICONDUCTOR MEMORY STORAGE DEVICE AND ITS CONTROL METHOD
4465009	AF01383JP	Japan	09/20/2005	02/26/2010	READ APPROACH FOR MULTI-LEVEL VIRTUAL GROUND MEMORY
4630902	AF01386JP	Japan	02/11/2005	11/19/2010	ERASE ALGORITHM FOR MULTI-LEVEL BIT FLASH MEMORY
4674239	AF01390JP	Japan	12/20/2005	01/28/2011	MULTI-LEVEL ONO FLASH PROGRAM ALGORITHM FOR THRESHOLD WIDTH CONTROL
4618688	AF01402JP	Japan	12/05/2006	11/05/2010	NEW CASCADE AND SENSE-AMPLIFIER
4750034	AF01403JP	Japan	07/30/2004	05/27/2011	SEMICONDUCTOR DEVICE AND WRITING METHOD
2006-531191	AF01404JP	Japan	08/30/2004		APPARATUS FOR ADJUSTING RAMP GATE PGM CONDITION IN MANUAL PGM
4472701	AF01412JP	Japan	07/29/2004	03/12/2010	A NON-VOLATILITY MEMORY DEVICE AND ITS CONTROL METHOD
4554613	AF01413JP	Japan	07/30/2004	07/23/2010	SEMICONDUCTOR DEVICE AND METHOD FOR WRITING DATA INTO SEMICONDUCTOR DEVICE
4698583	AF01416JP	Japan	05/12/2004	03/11/2011	SEMICONDUCTOR DEVICE AND ITS CONTROL METHOD
4642019	AF01417JP	Japan	05/11/2004	12/10/2010	NONVOLATILE SEMICONDUCTOR MEMORY, SEMICONDUCTOR DEVICE AND CHARGE PUMP CIRCUIT
4613353	AF01422JP	Japan	10/26/2006	10/29/2010	SEMICONDUCTOR DEVICE AND PROGRAM METHOD
4614115	AF01423JP	Japan	05/11/2004	10/29/2010	SEMICONDUCTOR DEVICE AND WRITING METHOD
4577849	AF01425JP	Japan	05/11/2004	09/03/2010	SEMICONDUCTOR DEVICE AND CONTROL METHOD FOR SEMICONDUCTOR DEVICE
4623669	AF01427JP	Japan	10/26/2006	11/12/2010	SEMICONDUCTOR DEVICE AND SEMICONDUCTOR DEVICE CONTROL METHOD
2006-531207	AF01432JP	Japan	08/31/2004		THE SEMICONDUCTOR MEMORY STORAGE DEVICE WHICH CARRIED THE NEGATIVE VOLTAGE GENERATING CIRCUIT
2006-546543	AF01434	Japan	11/30/2004		SEMICONDUCTOR DEVICE, FABRICATING METHOD THEREOF, AND PHOTOMASK
2008-309489	AF01434JP DIV	Japan	12/04/2008		METHOD FOR THE MONITORING OF THE BEST FOCUSING POSITION AND INLINE WAFER WITH THE BEST FOCUS MONITORING MARK
4421615	AF01438JP	Japan	12/24/2004	12/11/2009	METHOD AND APPARATUS FOR APPLYING BIAS TO A STORAGE DEVICE
4698605	AF01439JP	Japan	11/30/2004	03/11/2011	SEMICONDUCTOR DEVICE AND SEMICONDUCTOR DEVICE CONTROL METHOD
2010-249631	AF01439JP DIV	Japan	11/08/2010		SEMICONDUCTOR DEVICE AND SEMICONDUCTOR DEVICE CONTROL METHOD

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4499103	AF01441JP	Japan	07/29/2004	04/23/2010	A NON-VOLATILE MEMORY APPARATUS AND ITS CONTROL METHOD
5270598	AF01441JP DIV	Japan	03/10/2010	05/17/2013	NON-VOLATILE MEMORY DEVICE
5390006	AF01441JP DIV2	Japan	07/29/2004	10/18/2013	A NON-VOLATILE MEMORY APPARATUS AND ITS CONTROL METHOD
4547377	AF01443JP	Japan	05/11/2004	07/09/2010	CARRIER FOR SEMICONDUCTOR DEVICES TO BE STACKED AND FABRICATION METHOD OF THE DEVICE
4895823	AF01445JP	Japan	12/28/2004	01/06/2012	SEMICONDUCTOR DEVICE
2006-513655	AF01446JP	Japan	05/20/2004		SEMICONDUCTOR CHIP ASSEMBLY AND FABRICATION METHOD OF THE SAME
4989630	AF01451JP	Japan	04/24/2006	05/11/2012	THE ARRAY SOURCE LINE IN A NAND FLASH MEMORY
4674234	AF01453JP	Japan	02/11/2005	01/28/2011	METHOD AND SYSTEMS FOR HIGH WRITE PERFORMANCE IN MULTI- BIT FLASH MEMORY DEVICES
4794462	AF01454JP	Japan	11/30/2004	08/05/2011	NEW MEMORY CELL STRUCTURE IN WHICH HIGH-SPEED WRITING IS POSSIBLE
5014802	AF01455JP	Japan	11/30/2004	06/15/2012	SEMICONDUCTOR MEMORY AND MANUFACTURING METHOD THEREOF
2012-032938	AF01455JP DIV	Japan	11/30/2004		SEMICONDUCTOR MEMORY AND MANUFACTURING METHOD THEREOF
2008-509068	AF01459JP	Japan	04/24/2006		METHOD OF FABRICATING A SEMICONDUCTOR DEVICE
4672673	AF01462	Japan	11/30/2004	01/28/2011	SEMICONDUCTOR DEVICE AND SEMICONDUCTOR DEVICE CONTROL METHOD
4582551	AF01463JP	Japan	09/30/2004	09/10/2010	SEMICONDUCTOR DEVICE AND DATA WRITING METHOD
5096929	AF01467JP	Japan	01/12/2006	09/28/2012	MEMORY DEVICE HAVING TRAPEZOIDAL BITLINES AND METHOD OF FABRICATING SAME
4777899	AF01468JP	Japan	10/29/2004	07/08/2011	SEMICONDUCTOR DEVICE
4738347	AF01470JP	Japan	11/30/2004	05/13/2011	SEMICONDUCTOR DEVICE AND CONTROL METHOD THEREOF
4804359	AF01472JP	Japan	10/29/2004	08/19/2011	DRAIN VOLTAGE REGULATION
4896011	AF01475JP	Japan	03/31/2005	01/06/2012	SRAM STRUCTURE FOR NAND I/F BASED ON MIRROR BIT MEMORY ARRAY
5237554	AF01477JP	Japan	10/29/2004	04/05/2013	SEMICONDUCTOR DEVICE MANUFACTURING METHOD
5392985	AF01479JP	Japan	12/28/2004	10/25/2013	SEMICONDUCTOR DEVICE AND METHOD OF CONTROLLING OPERATION THEREOF
4704460	AF01482JP	Japan	05/26/2006	03/18/2011	PAGE BUFFER ARCHITECTURE FOR PROGRAMMING, ERASING AND READING NANOSCALE RESISTIVE MEMORY DEVICES
4616355	AF01485JP	Japan	06/22/2007	10/29/2010	METHOD OF PROGRAMMING, READING AND ERASING MEMORY- DIODE IN A MEMORY-DIODE ARRAY
4854729	AF01490JP	Japan	03/24/2006	11/04/2011	WRITE-ONCE READ-MANY TIMES MEMORY
4547008	AF01491JP	Japan	11/10/2005	07/09/2010	DIODE ARRAYS ARCHITECTURE FOR ADDRESSING NANOSCALE RESISTIVE MEMORY ARRAYS
5032330	AF01500JP	Japan	11/10/2005	07/06/2012	METHOD OF FABRICATING ELECTRONIC DEVICE
5363536	AF01500JP DIV	Japan	11/10/2005	09/13/2013	PROTECTION OF ACTIVE LAYERS OF MEMORY CELLS DURING PROCESSING OF OTHER ELEMENTS
4601672	AF01523JP	Japan	12/20/2005	10/08/2010	SENSE AMPLIFIER WIHT HIGH VOLTAGE SWING
2007-558345	AF01524JP	Japan	03/07/2006		DECODER FOR MEMORY DEVICE
4890435	AF01530JP	Japan	01/28/2005	12/22/2011	NON-VOLATILE MEMORY AND CONTROL METHOD THEREOF
503121/2008	AF01625JP	Japan	03/22/2006		NON-VOLATILE MEMORY SEMICONDUCTOR DEVICE AND METHOD OF FORMING THE SAME
5014118	AF01642JP	Japan	02/23/2005	06/15/2012	METHOD OF MANUFACTURING SEMICONDUCTOR DEVICE INCLUDING FLASH MEMORY AND SEMICONDUCTOR DEVICE INCLUDING FLASH MEMORY
4903687	AF01643JP	Japan	02/24/2005	01/13/2012	SEMICONDUCTOR DEVICE AND FABRICATION METHOD THEREFOR
4613367	AF01644JP	Japan	08/30/2004	10/29/2010	CARRIER ARRANGEMENT FOR STACKED SEMICONDUCTOR DEVICE, PROCESS FOR PRODUCING SAME, AND PROCESS FOR PRODUCING STACKED SEMICONDUCTOR DEVICE
4619367	AF01645JP	Japan	10/26/2004	11/05/2010	NON-VOLATILE MEMORY DEVICE
4950037	AF01650JP	Japan	04/27/2005	03/16/2012	SEMICONDUCTOR DEVICE, DATA READ OUT METHOD AND SEMICONDUCTOR DEVICE MANUFACTURING METHOD
4918367	AF01653JP	Japan	01/24/2005	02/03/2012	SEMICONDUCTOR DEVICE AND METHOD FOR MANUFACTURING THE SAME
4974880	AF01654JP	Japan	01/27/2005	04/20/2012	SEMICONDUCTOR DEVICE AND METHOD FOR MANUFACTURING SAME
5166870	AF01657JP	Japan	05/30/2005	12/28/2012	SEMICONDUCTOR DEVICE MANUFACTURING APPARATUS AND SEMICONDUCTOR DEVICE MANUFACTURING METHOD
4927708	AF01661JP	Japan	02/28/2005	02/17/2012	SEMICONDUCTOR DEVICE AND METHOD FOR MANUFACTURING SAME
4944766	AF01662JP	Japan	02/25/2005	03/09/2012	SEMICONDUCTOR DEVICE AND METHOD FOR MANUFACTURING SAME
4675955	AF01663JP	Japan	01/28/2005	02/04/2011	LAYERED SEMICONDUCTOR DEVICE CARRIER AND LAYERED SEMICONDUCTOR DEVICE MANUFACTURING METHOD
505450/2008	AF01665JP	Japan	04/04/2006		SPLIT GATE MULTI-BIT MEMORY CELL
4916437	AF01666JP	Japan	03/31/2005	02/03/2012	SEMICONDUCTOR DEVICE
4763793	AF01668JP	Japan	09/08/2006	06/17/2011	HIGH PERFORMANCE FLASH MEMORY DEVICE CAPABLE OF HIGH DENSITY DATA STORAGE
2010-243038	AF01668JP DIV	Japan	09/08/2006		HIGH PERFORMANCE FLASH MEMORY DEVICE CAPABLE OF HIGH DENSITY DATA STORAGE
4908512	AF01669JP	Japan	09/07/2006	01/20/2012	MULTI-BIT FLASH MEMORY DEVICE HAVING IMPROVED PROGRAM RATE
5047625	AF01688JP	Japan	10/25/2004	07/27/2012	SEMICONDUCTOR DEVICE AND MANUFACTURING METHOD THEREOF
2006-550540	AF01689JP	Japan	12/28/2004		PROCESS FOR PRODUCING SEMICONDUCTOR
2007-500378	AF01690	Japan	01/27/2005		A MEMORY DEVICE AND ITS CONTROL METHOD

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4771961	AF01691JP	Japan	12/24/2004	07/21/2011	SYNCHRONOUS STORAGE DEVICE AND CONTROLLING METHOD THEREOF
4927716	AF01694JP	Japan	04/27/2005	02/17/2012	SEMICONDUCTOR DEVICE
4785917	AF01695JP	Japan	04/26/2006	10/05/2011	MULTI-CHIP MODULE AND METHOD OF MANUFACTURE
5518789	AF01695JP DIV	Japan	05/25/2011	04/11/2014	MULTI-CHIP MODULE
4991518	AF01696JP	Japan	01/31/2005	05/11/2012	LAYERED SEMICONDUCTOR DEVICE AND LAYERED SEMICONDUCTOR DEVICE MANUFACTURING METHOD
2012-065366	AF01696JP DIV	Japan	01/31/2005		PACKAGE ON PACKAGE USING CONNECTION FILM
4944763	AF01698JP	Japan	01/27/2005	03/09/2012	SEMICONDUCTOR DEVICE, ADDRESS ASSIGNMENT METHOD, AND VERIFY METHOD
5607581	AF01698JP DIV	Japan	01/27/2005	09/05/2014	A SEMICONDUCTOR DEVICE AND A VERIFY METHOD
5099691	AF01706JP	Japan	03/31/2005	10/05/2012	SEMICONDUCTOR DEVICE
4896010	AF01707JP	Japan	03/31/2005	01/06/2012	STACKED-TYPE SEMICONDUCTOR DEVICE AND METHOD OF MANUFACTURING THE SAME
4672767	AF01709JP	Japan	03/22/2006	01/28/2011	VARIABLE BREAKDOWN CHARACTERISTIC DIODE
4763689	AF01713JP	Japan	03/31/2005	06/17/2011	IMPROVED HYBRID READ
4828520	AF01721JP	Japan	08/02/2007	09/22/2011	SEMICONDUCTOR DEVICE AND CONTROL METHOD THEREFOR
4722123	AF01723JP	Japan	02/23/2005	04/05/2011	A MEMORY DEVICE AND ITS REDUNDANCY SETTING METHOD
4738405	AF01724JP	Japan	02/23/2005	05/13/2011	A MEMORY DEVICE AND ITS TEST METHOD
4510073	AF01725JP	Japan	01/31/2005	05/14/2010	REFERENCE CELL TRIMMING IN BIST
5047786	AF01728JP	Japan	04/27/2005	07/27/2012	METHOD OF FABRICATING SEMICONDUCTOR DEVICE
5330687	AF01729JP	Japan	05/30/2005	08/02/2013	SEMICONDUCTOR DEVICE AND METHOD FOR MANUFACTURING SAME
2008-508850	AF01730JP	Japan	03/24/2006		MULTI CHIP MODULE AND METHOD OF MANUFACTURE
2011-013674	AF01730JP DIV	Japan	03/24/2006		MULTI CHIP MODULE AND METHOD OF MANUFACTURE
4804462	AF01733JP	Japan	07/27/2005	08/19/2011	NEW PROGRAMMING ALGORITHM FOR XTREME MODE
4950036	AF01735JP	Japan	04/27/2005	03/16/2012	METHOD FOR MANUFACTURING SEMICONDUCTOR DEVICE
5014125	AF01739JP	Japan	05/30/2005	06/15/2012	SEMICONDUCTOR DEVICE AND PROGRAM DATA REDUNDANT METHOD
512615/2008	AF01741JP	Japan	05/25/2006		READ-ONLY MEMORY ARRAY WITH DIELECTRIC BREAKDOWN PROGRAMMABILITY
2007-523280	AF01742JP	Japan	06/30/2005		SEMICONDUCTOR DEVICE AND METHOD OF MANUFACTURING THE SAME
2007-507983	AF01743	Japan	03/16/2005		MEMORY DEVICE AND ITS CONTROL METHOD
5053084	AF01744JP	Japan	05/30/2005	08/03/2012	SEMICONDUCTOR DEVICE AND METHOD FOR MANUFACTURING SAME
4804459	AF01745JP	Japan	05/30/2005	08/19/2011	A IMPROVED REFERENCE CELL STRUCTURE OPTIMIZING THE PROGRAM/READ FUNCTION
2011-046554	AF01745JP DIV	Japan	03/03/2011		A IMPROVED REFERENCE CELL STRUCTURE OPTIMIZING THE PROGRAM/READ FUNCTION
2008-531173	AF01746JP	Japan	09/06/2006		SPACERS BETWEEN BITLINES IN VIRTUAL GROUND MEMORY ARRAY
2007-539720	AF01757US CIP	Japan	09/30/2005		STORAGE DEVICE AND CONTROL METHOD THEREOF
2007-518814	AF01758JP	Japan	05/30/2005		DC-DC CONVERTER FOR PROGRAM-MOUNTED MEMORY DEVICE
4672024	AF01770	Japan	12/15/2005	01/18/2011	A NON VOLATILE MEMORY DEVICE AND ITS CONTROL METHOD
4731601	AF01775JP	Japan	04/26/2006	04/28/2011	RESISTIVE MEMORY DEVICE WITH IMPROVED DATA RETENTION AND REDUCED POWER
5313679	AF01777JP	Japan	10/06/2006	07/12/2013	METHOD FOR MANUFACTURING A SEMICONDUCTOR COMPONENT USING A SACRIFICIAL MASKING STRUCTURE
2006-340280	AF01780	Japan	12/18/2006		PROGRAM ALGORITHM FOR MIRRORBIT
4980914	AF01781JP	Japan	08/30/2005	04/27/2012	SEMICONDUCTOR DEVICE AND CONTROL METHOD THEREOF
4965443	AF01783JP	Japan	06/30/2005	04/06/2012	METHOD FOR MANUFACTURING SEMICONDUCTOR DEVICE
2007-531988	AF01784JP	Japan	08/25/2005		STORAGE DEVICE, CONTROL METHOD OF STORAGE DEVICE, AND CONTROL METHOD OF STORAGE CONTROL DEVICE
4652409	AF01785JP	Japan	08/25/2005	12/24/2010	MEMORY DEVICE AND CONTROL METHOD OF MEMORY DEVICE
4762986	AF01789JP	Japan	06/30/2005	06/17/2011	NON-VOLATILE MEMORY DEVICE AND CONTROL METHOD OF NON-VOLATILE MEMORY DEVICE
2007-523257	AF01792JP	Japan	06/28/2005		SEMICONDUCTOR DEVICE AND FABRICATION METHOD THEREOF
5657612	AF01792JP DIV	Japan	06/28/2005	12/05/2014	SEMICONDUCTOR DEVICE AND FABRICATION METHOD THEREOF
5069109	AF01793JP	Japan	06/29/2005	08/24/2012	SEMICONDUCTOR DEVICE AND PRODUCTION METHOD THEREFOR
4922932	AF01802JP	Japan	06/28/2005	02/10/2012	SEMICONDUCTOR DEVICE AND CONTROL METHOD THEREOF
4950049	AF01803JP	Japan	07/25/2005	03/16/2012	SEMICONDUCTOR DEVICE AND CONTROL METHOD THEREOF
2007-539725	AF01812JP	Japan	09/30/2005		FABRICATION METHOD OF SEMICONDUCTOR DEVICE
2007-526761	AF01813	Japan	07/24/2006		MULTI-LEVEL MEMORY CELL ON SOI SUBSTRATE
4965445	AF01818JP	Japan	07/27/2005	04/06/2012	SEMICONDUCTOR DEVICE AND METHOD FOR MANUFACTURING SAME
4792034	AF01819JP	Japan	08/08/2005	07/29/2011	FVREF circuit
5123664	AF01829JP	Japan	09/28/2005	11/02/2012	PACKAGE USING AC INTERPOSERS
4871280	AF01833JP	Japan	08/30/2005	11/25/2011	IMPROVED CoP and PiP
2006-279418	AF01836	Japan	10/13/2006		NORNAND
2006-353410	AF01839JP	Japan	12/27/2006		STRUCTURE AND PROGRAMMING/ERASING OPERATIONS OF MIRROR BIT MEMORY DEVICE HAVING THE SHORTENED CHANNEL LENGTH
2007-539754	AF01840JP	Japan	10/04/2005		SEMICONDUCTOR DEVICE AND CONTROL METHOD THEREFOR
5379366	AF01843JP	Japan	09/20/2007	10/04/2013	SONOS DEVICE WITH INSULATING STORAGE LAYER AND P-N JUNCTION ISOLATION, AND THE FABRICATION METHOD THEREOF
521484/2008	AF01852JP	Japan	07/07/2006		INTEGRATED CIRCUIT TEST SOCKET
537735/2008	AF01853JP	Japan	10/06/2006		MEMORY ARRAY ARRANGED IN BANKS AND SECTORS AND ASSOCIATED DECODERS
2008-513037	AF01854JP	Japan	04/28/2006		SEMICONDUCTOR DEVICE AND PROGRAMMING METHOD
2006-340294	AF01860JP	Japan	12/18/2006		LOW POWER CONSUMPTION AND HIGH-SPEED CASCODE CIRCUIT AND ITS SYSTEM
5015008	AF01862JP	Japan	12/15/2005	06/15/2012	SEMICONDUCTOR DEVICE AND ITS CONTROL METHOD

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2006-353415	AF01869	Japan	12/27/2006		CONVEX SHAPED THIN-FILM-TRANSISTOR DEVICE
4918498	AF01870JP	Japan	12/08/2005	02/03/2012	SEMICONDUCTOR MANUFACTURING DEVICE, ITS CONTROLLING SYSTEM AND ITS CONTROLLING METHOD
2006-353413	AF01872	Japan	12/27/2006		POp HAVING HEAT RELEASE STRUCTURE
2006-353414	AF01873	Japan	12/27/2006		SEMICONDUCTOR DEVICE HAVING A PREVENTIVE CIRCUIT FOR PLASMA DAMAGE
2006-353416	AF01879JP	Japan	12/27/2006		MIRRORBIT DEVICE WITHOUT NITRIDE LAYER BETWEEN THE WORDLINE
2007-118845	AF01882JP	Japan	04/27/2007		COLUMN LEAK EFFECTIVELY CONTROLLED FOR 3D MEMORY
2007-533144	AF01884	Japan	07/31/2006		MULTI-BIT DEVICE HAVING A BURIED BIT LINE AND A BURIED WORDLINE
2006-355027	AF01887	Japan	12/28/2006		THE IMPROVEMENT PROCESS USING SION LAYER
2006-340143	AF01889JP	Japan	12/18/2006		THE METHOD OF STORING A PASSWORD DATA AND ADDRESS CHANGE FOR READ
2006-355025	AF01890JP	Japan	12/28/2006		THIN PoP
2006-353411	AF01891	Japan	12/27/2006		THIN PiP
4288376	AF01894JP	Japan	04/24/2007	04/10/2009	SERIAL CONNNECTED MIM+TFT TYPE FOR 3D MEMORY
5036563	AF01895JP	Japan	01/17/2006	07/13/2012	SEMICONDUCTOR DEVICE AND METHOD FOR MANUFACTURING SAME
2006-355023	AF01897	Japan	12/24/2007	03/01/2012	ADDRESS/DATA MUX.X32 DEVICE USING 2-CHIPS
2006-353412	AF01898	Japan	12/27/2006		POp USING STUD BUMP
2007-025336	AF01903	Japan	02/05/2007		THREE-D TFT SONOS DEVICE
2006-355026	AF01906	Japan	12/28/2006		IMPROVED U-SHAPED SONOS DEVICE
2009-505396	AF01907JP	Japan	04/05/2007		MULTI MEDIA CARD WITH HIGH STORAGE CAPACITY
4934053	AF01908JP	Japan	12/09/2005	02/24/2012	SEMICONDUCTOR DEVICE AND ITS MANUFACTURING METHOD
4804479	AF01949JP	Japan	12/13/2005	08/19/2011	WRITE/READ LATCH FOR ORNAND
5192825	AF01953JP	Japan	01/17/2006	02/08/2013	LOWER PACKAGE WITH DIMPLES IN THE RESIN FOR PoP
5348785	AF01954JP	Japan	04/27/2006	08/30/2013	MEMORY CELL ARRAY WITH LOW RESISTANCE COMMON SOURCE AND HIGH CURRENT DRIVABILITY
5331683	AF02071JP	Japan	05/21/2007	08/02/2013	THE MEMORY SYSTEM WITH SWITCH ELEMENT
5705247	AF02071JP DIV	Japan	05/21/2007	03/06/2015	MEMORY SYSTEM WITH SWITCH ELEMENT
2006-355024	AF02075	Japan	12/28/2006		IMPROVED FABRICATION METHOD OF STI FORMATION
2007-025337	AF02076	Japan	02/05/2007		REFERENCE CIRCUIT HAVING A CALIBRATION CELL
5301123	AF02077JP	Japan	07/25/2007	06/28/2013	SEMICONDUCTOR APPARATUS AND ITS MANUFACTURING METHOD
2007-025334	AF02078	Japan	02/05/2007		IMPROVEMENT OF HIGH DENSITY PLASMA CVD MACHINE FROM NOVELLUS
2007-048693	AF02080	Japan	02/28/2007		WAFER LEVEL CSP WITH FRAME
2007-025335	AF02081	Japan	02/05/2007		UMEM DEVICE HAVING THE POCKET IMPLANTATION REGION
5243237	AF02083JP	Japan	02/28/2006	04/12/2013	SEMICONDUCTOR DEVICE AND PROCESS FOR PRODUCING THE SAME
5313474	AF02084JP	Japan	09/28/2007	07/12/2013	METAL VOID MONITOR IN DAMASCENE PROCESS
5443676	AF02085JP	Japan	08/17/2007	12/27/2013	SEMICONDUCTOR DEVICE AND MANUFACTURING METHOD THEREFOR
2007-022714	AF02086	Japan	02/01/2007		THE CHARGE PUMP STYLE THAT SUPPLY VOLTAGE BAND IS WIDE AND SEMICONDUCTOR DEVICE BASED ON THEM.
5400279	AF02087JP	Japan	06/07/2007	11/01/2013	PROGRAMMING METHOD THEREOF, AND SEMICONDUCTOR MANUFACTURING DEVICE
2007-214096	AF02093JP	Japan	08/20/2007		FABRICATION METHOD OF SILICIDED SURFACE
2007-023913	AF02096	Japan	02/01/2007		FLIP-CHIP PACKAGE COVERED WITH TAPE
2007-034742	AF02097JP	Japan	02/15/2007		DEVICE BUILT-IN SUBSTRATE BY USING VDM
2007-067151	AF02102JP	Japan	03/15/2007		METHOD OF SEPARATION OF ONO FILMS OVER CHANNEL REGION BY PLASMA OXIDATION PROCESSING
2007-213001	AF02103JP	Japan	08/17/2007		FABRICATING METHOD OF SONOS FLASH MEMORY
2009-504313	AF02136JP	Japan	04/05/2007		REDUCTION OF LEAKAGE CURRENT AND PROGRAM DISTURBS IN FLASH MEMORY DEVICES
2009-504339	AF02137JP	Japan	04/05/2007		METHODS FOR ERASING AND PROGRAMMING MEMORY DEVICES
2009-504316	AF02138JP	Japan	04/05/2007		METHODS FOR ERASING MEMORY DEVICES AND MULTI-LEVEL PROGRAMMING MEMORY DEVICE
2009-504320	AF02146JP	Japan	04/05/2007		FLASH MEMORY PROGRAMMING AND VERIFICATION WIHT REDUCED LEAKAGE CURRENT
5280027	AF02148JP	Japan	09/18/2007	05/31/2013	SEMICONDUCTOR DEVICE AND ITS CONTROLLING METHOD
2007-158750	AF02150JP	Japan	06/15/2007		ECC COMMAND
4696227	AF02153JP	Japan	12/28/2007	03/11/2011	FLIP CHIP PACKAGE WITH STEP
5144964	AF02155JP	Japan	06/05/2007	11/30/2012	SEMICONDUCTOR DEVICE AND MANUFACTURING METHOD THEREOF
5508505	AF02155JP DIV	Japan	06/05/2007	03/28/2014	SEMICONDUCTOR DEVICE AND MANUFACTURING METHOD THEREOF
2007-333154	AF02156JP	Japan	12/25/2007		METHOD OF INHIBITING FRINGE CURRENT IN MIRROR BITMEMORY DEVICE
5367235	AF02159JP	Japan	06/07/2007	09/20/2013	THE IMPROVEMENT OF THE HARD MASK PROCESS
2007-149794	AF02161JP	Japan	06/05/2007		SEMICONDUCTOR DEVICE HAVING UV-BLOCKING LAYER CONTAINING GRANULAR MATERIAL WITH HIGH EXTINCTION EFFECT
5260901	AF02162JP	Japan	07/02/2007	05/02/2013	SEMICONDUCTOR DEVICE AND ITS CONTROL METHOD
5276824	AF02170JP	Japan	10/17/2007	05/24/2013	METHOD OF MANUFACTURING SEMICONDUCTOR DEVICE
3783240	AF02171JP	Japan	09/19/1994	03/24/2006	MANUFACTURING OF FLASH MEMORY
3780057	AF02172JP	Japan	03/19/1997	03/10/2006	SEMICONDUCTOR DEVICE AND MANUFACTURING
3442596	AF02173JP	Japan	11/28/1996	06/20/2003	MANUFACTURING METHOD OF SEMICONDUCTOR DEVICE
H9-184773	AF02174JP	Japan	07/10/1997		NONVOLATILE SEMICONDUCTOR DEVICE AND
3892994	AF02175JP	Japan	07/23/1999	12/15/2006	NONVOLATILE MEMORY ALLOW ENCRYPTED
3430084	AF02176JP	Japan	10/22/1999	05/16/2003	NONVOLATILE SEMICONDUCTOR MEMORY DEVICE
3912937	AF02177JP	Japan	08/10/1999	02/09/2007	MULTI-LEVEL NONVOLATILE MEMORY USING
4697993	AF02178JP	Japan	11/25/1999	03/11/2011	MANUFACTURING METHOD OF NON-VOLATILE SEMICONDUCTOR MEMORY DEVICE

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3762584	AF02179JP	Japan	09/20/1999	01/20/2006	SEMICONDUCTOR DEVICE AND MANUFACTURING
3958899	AF02180JP	Japan	09/03/1999	05/18/2007	SEMICONDUCTOR MEMORY DEVICE AND
4623782	AF02181JP	Japan	10/15/1999	11/12/2010	SEMICONDUCTOR MEMORY AND USAGE METHOD THEREFOR
3829161	AF02182JP	Japan	10/14/1999	07/21/2006	NONVOLATILE MEMORY CIRCUIT STORAGE MULTI-
2001-560823	AF02183JP	Japan	02/16/2000		NONVOLATILE MEMORY
4837230	AF02184JP	Japan	07/17/2000	10/07/2011	NONVOLATILE MEMORY DEVICE AND
4579493	AF02185JP	Japan	08/03/2000	09/03/2010	NONVOLATILE SEMICONDUCTOR MEMORY AND METHOD OF READING DATA
2002-505627	AF02186	Japan	06/29/2000		SEMICONDUCTOR OR MEMORY DEVICE
4907758	AF02187JP	Japan	09/12/2000	01/20/2012	SEMICONDUCTOR STORAGE DEVICE AND ITS CONTROL METHOD
2002-551860	AF02188JP	Japan	12/21/2000		NONVOLATILE SEMICONDUCTOR MEMORY DEVICE
4730999	AF02189JP	Japan	08/14/2000	04/28/2011	MANUFACTURING METHOD OF NONVOLATILE
2001-123180	AF02190JP	Japan	04/20/2001		NONVOLATILE SEMICONDUCTOR MEMORY
4051175	AF02191JP	Japan	11/17/2000	12/07/2007	NONVOLATILE SEMICONDUCTOR DEVICE AND
3930256	AF02192JP	Japan	02/07/2001	03/16/2007	SEMICONDUCTOR MEMORY AND MANUFACTURING
4674042	AF02193JP	Japan	05/25/2001	01/28/2011	NONVOLATILE SEMICONDUCTOR STORAGE DEVICE
4142354	AF02194JP	Japan	06/18/2002	06/20/2008	READ METHOD FOR DUAL BIT MEMORY CELL
4152598	AF02195JP	Japan	03/16/2001	07/11/2008	SEMICONDUCTOR DEVICE AND MANUFACTURING
2003-114392	AF02196	Japan	04/18/2003		PROGRAMMING METHOD FOR THRESHOLD
2007-109895	AF02196JP DIV	Japan	04/18/2007		PROGRAMMING METHOD FOR THRESHOLD
5285674	AF02196JP DIV2	Japan	04/18/2003	06/07/2013	SEMICONDUCTOR STORAGE DEVICE AND CONTROL METHOD THEREOF
2010-213936	AF02196JP DIV3	Japan	04/18/2003		PROGRAMMING METHOD FOR THRESHOLD
3930454	AF02197JP	Japan	05/09/2003	03/16/2007	READ METHOD FOR TWO BIT MEMORY CELL A
2001-94582	AF02198	Japan	03/29/2001		SEMICONDUCTOR MEMORY DEVICE AND DRIVING
3980874	AF02199JP	Japan	11/30/2001	07/06/2007	SEMICONDUCTOR MEMORY DEVICE AND DRIVING
4437519	AF02200JP	Japan	08/23/2001	01/15/2010	MEMORY CONTROLLER FOR MULTI LEVEL
2002-012985	AF02201JP	Japan	01/22/2002		NONVOLATILE SEMICONDUCTOR MEMORY WITH A FUNCTION FOR PREVENTING UNAUTHORIZED READING
2002-45116	AF02202	Japan	02/21/2002		METHOD OF MISSING READ DETECT AND CORRECT OF
4138291	AF02203JP	Japan	10/19/2001	06/13/2008	NONVOLATILE SEMICONDUCTOR MEMORY AND
2003-51449	AF02204JP	Japan	02/27/2003		SETTING SYSTEM FOR THRESHOLD VOLTAGE OF
3901570	AF02205	Japan	04/23/2002	01/12/2007	EQUIPMENT FOR LOW TEMPERATURE
4274870	AF02206JP	Japan	07/14/2003	03/13/2009	SYSTEM USING DYNAMIC REFERENCE BY
4017177	AF02207JP	Japan	02/28/2001	09/28/2007	MEMORY DEVICE
2007-166979	AF02207JP DIV	Japan	06/25/2007		MEMORY DEVICE
2011-047578	AF02207JP DIV2	Japan	02/28/2001		MEMORY DEVICE
2002-114145	AF02208JP	Japan	04/17/2002		NONVOLATILE SEMICONDUCTOR MEMORY AND
3796457	AF02209JP	Japan	02/28/2002	04/21/2006	NONVOLATILE SEMICONDUCTOR DEVICE
2002-135688	AF02210JP	Japan	05/10/2002		NONVOLATILE SEMICONDUCTOR MEMORY DEVICE
4105976	AF02211JP	Japan	04/25/2003	04/04/2008	CONTROL SYSTEM FOR PRECHARGE LEVEL ON
3967193	AF02212JP	Japan	05/21/2002	06/08/2007	NONVOLATILE SEMICONDUCTOR MEMORY DEVICE
4030839	AF02213JP	Japan	08/30/2002	10/26/2007	MEMORY INTEGRATED CIRCUIT DEVICE
2002-80554	AF02214JP	Japan	03/22/2002		SEMICONDUCTOR MEMORY DEVICE
4607166	AF02214JP DIV	Japan	11/23/2007	10/15/2010	SEMICONDUCTOR MEMORY DEVICE
2002-234463	AF02215	Japan	08/12/2002		NONVOLATILE MEMORY HAVING TRAN LAYER
3943526	AF02216JP	Japan	06/04/2003	04/13/2007	NONVOLATILE SEMICONDUCTOR MEMORY
4067908	AF02217JP	Japan	08/08/2002	01/18/2008	SEMICONDUCTOR MEMORY DEVICE THE
2003-380841	AF02218JP	Japan	11/11/2002		NONVOLATILE SEMICONDUCTOR MEMORY
4175852	AF02219JP	Japan	09/13/2002	08/29/2008	SEMICONDUCTOR MEMORY FOR FUNCTION WELL
2002-268315	AF02220JP	Japan	09/13/2002		NONVOLATILE SEMICONDUCTOR MEMORY
2002-265065	AF02221JP	Japan	09/11/2002		MEMORY CIRCUIT HAVING
4163473	AF02222JP	Japan	09/13/2002	08/01/2008	NONVOLATILE SEMICONDUCTOR MEMORY
3987856	AF02223JP	Japan	02/24/2003	07/20/2007	VOLTAGE DETECTION CIRCUIT, SEMICONDUCTOR DEVICE, METHOD FOR CONTROLLING VOLTAGE DETECTION CIRCUIT
2004-568463	AF02224JP	Japan	02/18/2003		SEMICONDUCTOR MEMORY DEVICE AND DATA RESD
2003-27514	AF02225JP	Japan	02/04/2003		SEMICONDUCTOR MEMORY DEVICE AND
4101809	AF02226JP	Japan	02/27/2003	03/28/2008	NONVOLATILE SEMICONDUCTOR MEMORY
3831758	AF02227JP	Japan	02/17/2003	07/28/2006	VOLTAGE BOOSTER CIRCUIT USING SMALL
3857241	AF02228JP	Japan	02/17/2003	09/22/2006	CHARGE PUMP CIRCUIT REDUCE A SWING LEVEL OF
4017178	AF02229JP	Japan	02/28/2003	09/28/2007	FLASH MEMORY AND MEMORY CONTROL
2002-370274	AF02230JP	Japan	12/20/2002		SEMICONDUCTOR DEVICE AND TEST METHOD
2004-571303	AF02231	Japan	04/30/2003		FLASH MEMORY WITH SPARE SECTOR QUICKEN
2004-569330	AF02232JP	Japan	03/11/2003		MEMORY DEVICE
3914869	AF02233JP	Japan	12/20/2002	02/09/2007	NONVOLATILE MEMORY AND METHOD FOR
4005909	AF02234JP	Japan	12/26/2002	08/31/2007	SEMICONDUCTOR MEMORY DEVICE AND CONTROL
4175881	AF02235JP	Japan	12/25/2002	08/29/2008	METHOD FOR STORING IN NONVOLATILE MEMORY AND STORAGE UNIT
2003-50264	AF02236JP	Japan	02/27/2003		SEMICONDUCTOR MEMORY DEVICE
2008-108127	AF02236JP DIV	Japan	04/17/2008		SEMICONDUCTOR MEMORY DEVICE
4104151	AF02237JP	Japan	04/28/2003	04/04/2008	NONVOLATILE SEMICONDUCTOR MEMORY DEVICE
4002275	AF02238JP	Japan	04/24/2003	08/24/2007	NONVOLATILE SEMICONDUCTOR MEMORY
4698638	AF02238JP DIV	Japan	06/04/2007	03/11/2011	NONVOLATILE SEMICONDUCTOR MEMORY
5318054	AF02238JP DIV2	Japan	04/24/2003	07/19/2013	NONVOLATILE SEMICONDUCTOR MEMORY
4010513	AF02239JP	Japan	04/17/2003	09/14/2007	NONVOLATILE SEMICONDUCTOR MEMORY
4177167	AF02240JP	Japan	05/14/2003	08/29/2008	NONVOLATILE SEMICONDUCTOR MEMORY DEVICE
4060330	AF02241JP	Japan	06/06/2003	12/28/2007	SEMICONDUCTOR MEMORY DEVICE AND SELECT
06811935.3	AF02243JP	Japan	10/18/2006		A VOLTAGE DETECTOR CIRCUIT
5601751	AF02253JP	Japan	04/26/2007	08/29/2014	SEMICONDUCTOR DEVICE, AND MANUFACTURING METHOD THEREOF
5411981	AF02253JP DIV	Japan	04/26/2007	11/15/2013	MANUFACTURING METHOD OF SEMICONDUCTOR DEVICE

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2007-194277	AF02254JP	Japan	07/26/2007		HIGH-SPEED NONVOLATILE MEMORY COMPRISING SIMULTANEOUS OPERATION FUNCTION (AS FOR IT, PROGRAM/ERASE-POWER LINE COMPRISING NOISE SOURCE AND SENSITIVE READ-POWER LINE SEPARATED IN)
5281770	AF02256JP	Japan	08/17/2007	05/31/2013	MIRROR BIT MEMEORY DEVICE APPLYING A GATE VOLTAGE ALTERNATELY TO GATE
5486152	AF02257JP	Japan	07/30/2007	02/28/2014	SEMICONDUCTOR DEVICE AND THE METHOD OF FABRICATING THE SAME
2007-023570	AF02259	Japan	02/01/2007		PROGRAM/ERASE DISABLING CONTROL OF WPCAM BY DOUBLE CONTROLS
2007-097578	AF02261	Japan	04/03/2007		BOOST DRIVE METHOD FOR PASS-GATE-TRANSISTOR CONTROLLED BY AN ADDRESS DECODER
2007-214097	AF02262JP	Japan	08/20/2007		SEMICONDUCTOR DEVICE AND METHOD FOR MANUFACTURING THE SAME
2013-257563	AF02262JP DIV	Japan	08/20/2007		SEMICONDUCTOR DEVICE AND METHOD FOR MANUFACTURING THE SAME
2007-123298	AF02263JP	Japan	05/08/2007		SEMICONDUCTOR DEVICE AND ITS MANUFACTURING PROCESS
5037241	AF02266JP	Japan	07/04/2007	07/13/2012	METHOD AND APPARATUS FOR MANUFACTURING SEMICONDUCTOR APPARATUS
5425378	AF02274JP	Japan	07/30/2007	12/06/2013	FABRICATING METHOD OF SPLIT NITRIDE OF SONOS DEVICE
2007-057828	AF02287JP	Japan	03/07/2007		SEMICONDUCTOR DEVICE AND MANUFACTURING METHOD
2007-070016	AF02288JP	Japan	03/19/2007		THIN COC PACKAGE
5388422	AF02289JP	Japan	05/11/2007	10/18/2013	SEMICONDUCTOR DEVICE AND MANUFACTURING METHOD
5350604	AF02291JP	Japan	05/16/2007	08/30/2013	SEMICONDUCTOR DEVICE AND ITS MANUFACTURING METHOD
2007-098763	AF02293JP	Japan	04/04/2007		LOW COST TROUGH HOLE PACKAGE
5300248	AF02298JP	Japan	11/20/2007	06/28/2013	SEMICONDUCTOR DEVICE AND ITS MANUFACTURING METHOD
2007-290103	AF02310JP	Japan	11/07/2007		NON-VOLATILE SWITCHING DEVICE
2014-233157	AF02310JP DIV	Japan	11/07/2007		VARIABLE RESISTOR FOR NONVOLATILE MEMORY AND ITS MANUFACTURING METHOD, AND NONVOLATILE MEMORY
2007-136396	AF02312JP	Japan	05/23/2007		FLASH MEMORY ENABLED OVER-PROGRAMMING OF SPARE MEMORY REGION
4588060	AF02313JP	Japan	09/19/2007	09/17/2010	THIN LEAD FLAME PACKAGE
5341337	AF02314JP	Japan	10/25/2007	08/16/2013	SEMICONDUCTOR DEVICE AND MANUFACTURING METHOD THEREFOR
2007-055322	AF02315JP	Japan	03/06/2007		ERASURE SUSPENSION FEATURE
5273956	AF02316JP	Japan	07/02/2007	08/28/2013	SEMICONDUCTOR DEVICE AND MANUFACTURING METHOD
2013-042131	AF02316JP DIV	Japan	07/02/2007		SEMICONDUCTOR DEVICE AND MANUFACTURING THE SAME
4550102	AF02320JP	Japan	10/25/2007	07/16/2010	ONE CHIP TESTABLE FBGA FOR POP OR MCP
2007-238877	AF02326JP	Japan	09/14/2007		THE JUNCTION STRUCTURE OF STACKING PACKAGES ON THE WAFER
5358077	AF02340JP	Japan	09/28/2007	09/06/2013	SEMICONDUCTOR DEVICE AND METHOD OF MANUFACTURING THE SAME
5058714	AF02455JP	Japan	08/21/2007	08/10/2012	SEMICONDUCTOR DEVICE, AND ITS MANUFACTURING METHOD
4937856	AF02457JP	Japan	08/03/2007	03/02/2012	SEMICONDUCTOR DEVICE AND ITS MANUFACTURING METHOD
5681761	AF02460JP	Japan	12/20/2007	01/16/2015	SEMICONDUCTOR DEVICE AND MANUFACTURING METHOD THEREOF
5319107	AF02460US DIV	Japan	12/20/2007	07/19/2013	FABRICATING METHOD OF U-SHAPED NAND TYPE MEMORY DEVICE
5352084	AF02463JP	Japan	12/20/2007	08/30/2013	MEMORY DEVICE HAVING LARGE POSITIONAL DEVIATION MARGIN OF BIT LINE CONTACT
4547490	AF02464JP	Japan	11/02/2007	07/16/2010	LENS REGULATION MECHANISM
2007-187763	AF02465JP	Japan	07/19/2007		TERMINATE CYCLE FOR BURST WRITE OPERATION
2007-328337	AF02466JP	Japan	12/20/2007		TIME REDUCTION OF ADDRESS SETUP_HOLD TIME FOR SEMICONDUCTOR MEMORY
4635173	AF02468JP	Japan	04/25/2008	12/03/2010	A RESET CIRCUIT OF DATA RAM DIVIDED TO A SECTOR UNIT AND ITS METHOD
2008-027335	AF02469JP	Japan	02/07/2008		OUTPUT BUFFER CIRCUIT
5566003	AF02488JP	Japan	11/08/2007	06/27/2014	A SEMICONDUCTOR DEVICE AND ITS MANUFACTURING METHOD
5105417	AF02535JP	Japan	11/20/2007	10/12/2012	SEMICONDUCTOR DEVICE AND ITS MANUFACTURING METHOD
2007-273655	AF02536JP	Japan	10/22/2007		SEMICONDUCTOR DEVICE AND ITS MANUFACTURING METOD
5621021	AF02536JP DIV2	Japan	10/22/2007	09/26/2014	SEMICONDUCTOR DEVICE AND ITS MANUFACTURING METOD THEREOF
2007-154630	AF02539JP	Japan	06/12/2007		A WRITE COMMAND ENTRY METHOD OF SYNC. NVROM WHICH IS INTERFACE COMMAND ARCHITECTURE FOR SYNCHRONOUS FLASH MEMORY
5133147	AF02540JP	Japan	06/24/2008	11/16/2012	RECOGNITION DEVICE, RECOGNITION METHOD AND COMPUTER PROGRAM
2007-154452	AF02541	Japan	06/11/2007		NEW FUNCTION OF "A NONVOLATILE MEMORY CONNECTED TO SDRAM CONTROLLER"
5405737	AF02545JP	Japan	12/20/2007	11/08/2013	SPLITTING METHOD OF ONO FILM IN U-SHAPED MEMORY
5308112	AF02552JP	Japan	09/22/2008	07/05/2013	SEMICONDUCTOR DEVICE AND METHOD OF CONTROLLING THE SAME
5098085	AF02554JP	Japan	12/18/2007	10/05/2012	SEMICONDUCTOR DEVICE AND MANUFACTURING METHOD THEREOF
2008-008456	AF02555JP	Japan	01/17/2008		FABRICATING METHOD OF REDUCING THE CONTACT RESISTANCE BY REMOVING THE DAMAGED REGION IN THE BIT LINE CONTACT
2014-065111	AF02555JP DIV	Japan	01/17/2008		METHOD OF MANUFACTURING SEMICONDUCTOR DEVICE
2007-318745	AF02556JP	Japan	12/10/2007		MANUFACTURING METHOD FOR ONE SIDE MOLDING PACKAGE
2013-231805	AF02556JP DIV	Japan	12/10/2007		METHOD OF MANUFACTURING SEMICONDUCTOR APPARATUS
5301126	AF02557JP	Japan	08/21/2007	06/28/2013	SEMICONDUCTOR DEVCE AND ITS PRODUCTION PROCESS
5302522	AF02559JP	Japan	08/10/2007	06/28/2013	SEMICONDUCTOR DEVICE, AND MANUFACTURING METHOD THEREOF

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5451971	AF02582JP	Japan	11/09/2007	01/10/2014	SEMICONDUCTOR DEVICE AND ITS CONTROL METHOD (AS AMENDED)
5057517	AF02584JP	Japan	12/06/2007	08/10/2012	SEMICONDUCTOR DEVICE AND METHOD OF CONTROLLING THE SAME
5241148	AF02585JP	Japan	06/08/2007	04/12/2013	SEMICONDUCTOR DEVICE, AND CONTROL METHOD THEREOF
5255234	AF02586JP	Japan	05/29/2007	04/26/2013	SEMICONDUCTOR DEVICE AND ITS CONTROL METHOD
5072446	AF02587JP	Japan	06/15/2007	08/31/2012	SEMICONDUCTOR DEVICE AND ITS CONTROLLING METHOD
5143655	AF02596JP	Japan	07/22/2008	11/30/2012	IMPROVEMENT OF CHARGE LOSS OF REDUCED FLOATING GATE TYPE NOR-FLASH MEMORY
2007-300687	AF02605JP	Japan	11/20/2007		SEMICONDUCTOR DEVICE AND MANUFACTURING METHOD
2639202	AF02606	Japan	10/18/1990	04/25/1997	MANUFACTURE OF SEMICONDUCTOR DEVICE
2720645	AF02607	Japan	08/12/1991	11/21/1997	MANUFACTURE OF SEMICONDUCTOR DEVICE
2900941	AF02608	Japan	03/09/1989	03/19/1999	SEMICONDUCTOR DEVICE
3409404	AF02609JP	Japan	12/27/1993	03/20/2003	FLASH MEMORY
3414496	AF02610JP	Japan	05/27/1994	04/04/2003	SEMICONDUCTOR DEVICE
3414852	AF02611JP	Japan	07/20/1994	04/04/2003	SEMICONDUCTOR MEMORY
3418435	AF02612	Japan	11/16/1993	04/11/2003	CURRENT MIRROR TYPE OSCILLATOR CIRCUIT
3444902	AF02613JP	Japan	10/24/1991	06/27/2003	TEST METHOD FOR SEMICONDUCTOR DEVICE
3465416	AF02614JP	Japan	06/22/1995	08/29/2003	DATA OUTPUT CIRCUIT AND SEMICONDUCTOR MEMORY DEVICE
3476479	AF02615JP	Japan	09/19/1991	09/26/2003	SEMICONDUCTOR MEMORY
3500564	AF02616JP	Japan	12/19/1997	12/12/2003	MANUFACTURE OF SEMICONDUCTOR DEVICE
3513056	AF02617JP	Japan	09/20/1999	01/16/2004	NONVOLATILE SEMICONDUCTOR STORAGE
3534815	AF02618JP	Japan	03/18/1994	03/19/2004	SEMICONDUCTOR INTEGRATED CIRCUIT DEVICE
3541427	AF02619JP	Japan	05/27/1994	04/09/2004	SEMICONDUCTOR MEMORY
3541503	AF02620JP	Japan	07/10/1995	04/09/2004	SEMICONDUCTOR MEMORY
3544222	AF02621JP	Japan	03/18/1994	04/16/2004	NONVOLATILE SEMICONDUCTOR MEMORY DEVICE AND DATA READING METHOD THEREOF
3544731	AF02622JP	Japan	01/11/1995	04/16/2004	NONVOLATILE SEMICONDUCTOR STORAGE DEVICE
3545010	AF02623JP	Japan	06/23/1993	04/16/2004	SEMICONDUCTOR STORAGE DEVICE
3558746	AF02624JP	Japan	07/26/1995	05/28/2004	METHOD AND EQUIPMENT FOR TESTING NONVOLATILE MEMORY
3568265	AF02625JP	Japan	02/20/1995	06/25/2004	SEMICONDUCTOR MEMORY DEVICE
3573477	AF02626JP	Japan	12/10/1993	07/09/2004	ELECTRICALLY ERASABLE NON-VOLATILE SEMICONDUCTOR MEMORY
3578478	AF02627JP	Japan	12/14/1993	07/23/2004	NON-VOLTAGE SEMICONDUCTOR MEMORY
3599793	AF02628JP	Japan	09/14/1994	09/24/2004	SEMICONDUCTOR MEMORY DEVICE
3613312	AF02629JP	Japan	08/06/1997	11/05/2004	MANUFACTURE OF SEMICONDUCTOR DEVICE
3693181	AF02630JP	Japan	10/25/1991	07/01/2005	NONVOLATILE SEMICONDUCTOR MEMORY DEVICE AND MANUFACTURE THEREOF
3728577	AF02631JP	Japan	10/29/1998	10/14/2005	MANUFACTURE OF SEMICONDUCTOR STORAGE DEVICE
3881295	AF02632JP	Japan	09/17/2002	11/17/2006	NONVOLATILE SEMICONDUCTOR STORAGE DEVICE
3882916	AF02633JP	Japan	03/27/2003	11/24/2006	CHARGING PUMP CIRCUIT
5421549	AF02634JP	Japan	05/23/2008	11/29/2013	METHOD OF MANUFACTURING SEMICONDUCTOR DEVICE AND SEMICONDUCTOR DEVICE
5308024	AF02636JP	Japan	12/28/2007	07/05/2013	SONOS-NAND DEVICE HAVING THE STORAGE REGION SEPARATED BETWEEN CELLS
5300291	AF02642JP	Japan	03/13/2008	06/28/2013	SEMICONDUCTOR SYSTEM AND ITS ACTIVATION METHOD
4555956	AF02646JP	Japan	01/09/2008	07/30/2010	SYSTEM CONTROL METHOD OF MODE REGISTER SET OF DRAM IN MCP
4910117	AF02647 JP	Japan	04/04/2008	01/27/2012	ORDER RELATION OF LOCATION MODEL IN MCP INCLUDING MB-DDR CHIP DIE AND DRAM CHIP DIE
4765084	AF02648JP	Japan	04/22/2008	06/24/2011	THE DRAM CHIP DIE WHICH IT IS REFRESHED, AND IS CONTROLLED BY AN OPERATION RECOGNITION OF NV-MEMORY
4002712	AF02649JP	Japan	05/15/2000	08/24/2007	NONVOLATILE SEMICONDUCTOR MEMORY DEVICE
2007-120247	AF02649JP DIV	Japan	04/27/2007		NONVOLATILE SEMICONDUCTOR MEMORY DEVICE
2003-104841	AF02650JP	Japan	04/09/2003		SEMICONDUCTOR MEMORY DEVICE
4005522	AF02689JP	Japan	03/18/2003	08/31/2007	NONVOLATILE SEMICONDUCTOR MEMORY DEVICE
2002-268643	AF02692JP	Japan	09/13/2002		NONVOLATILE MEMORY CIRCUIT
2007-148661	AF02692JP DIV	Japan	06/04/2007		NONVOLATILE MEMORY CIRCUIT
5367256	AF02767JP	Japan	12/17/2007	09/20/2013	SEMICONDUCTOR DEVICE AND ITS MANUFACTURING METHOD
5214208	AF02770JP	Japan	10/01/2007	03/08/2013	SEMICONDUCTOR DEVICE AND CONTROL METHOD THEREOF
4698001	AF02771JP	Japan	07/11/2000	03/11/2011	SEMICONDUCTOR STORAGE DEVICE
2000-159102	AF02772JP	Japan	05/29/2000		SEMICONDUCTOR OR MEMORY DEVICE
4889889	AF02773JP	Japan	08/30/2001	12/22/2011	STATIC RANDOM ACCESS MEMORY WITH NO-VOLATILE DATA HOLDING FUNCTION AND ITS OPERATING METHOD
3963259	AF02774JP	Japan	03/15/2002	06/01/2007	SEMICONDUCTOR OR DEVICE
2002-319913	AF02775JP	Japan	11/01/2002		NONVOLATILE SEMICONDUCTOR OR DEVICE
4181363	AF02776JP	Japan	08/29/2002	09/05/2008	NONVOLATILE SEMICONDUCTOR OR MEMORY
4071572	AF02777JP	Japan	08/12/2002	01/25/2008	VOLTAGE CONTROL CIRCUIT
2002-319914	AF02778	Japan	11/01/2002		NONVOLATILE SEMICONDUCTOR OR MEMORY
2002-266995	AF02779JP	Japan	09/12/2002		SEMICONDUCTOR OR DEVICE
4197923	AF02780JP	Japan	10/29/2002	10/10/2008	SEMICONDUCTOR OR INTEGRATED
4667719	AF02781JP	Japan	01/17/2003	01/21/2011	NONVOLATILE MULTI-LEVEL SEMICONDUCTOR
4073330	AF02782JP	Japan	02/18/2003	02/01/2008	NONVOLATILE SEMICONDUCTOR OR MEMORY
4271450	AF02783JP	Japan	01/27/2003	03/06/2009	SEMICONDUCTOR OR MEMORY DEVICE
4195266	AF02784JP	Japan	09/13/2002	10/03/2008	SEMICONDUCTOR MEMORY DEVICE
2002-268316	AF02785JP	Japan	09/13/2002		DESIGN METHOD FOR SEMICONDUCTOR
2002-267097	AF02786JP	Japan	09/12/2002		NONVOLATILE MEMORY WITH IMPROVED
2003-30977	AF02787	Japan	02/07/2003		NONVOLATILE SEMICONDUCTOR OR MEMORY
4875284	AF02788JP	Japan	03/06/2003	12/02/2011	SEMICONDUCTOR OR MEMORY DEVICE AND
2002-354049	AF02789JP	Japan	12/05/2002		NONVOLATILE SEMICONDUCTOR OR MEMORY
2002-370272	AF02790JP	Japan	12/20/2002		OPERATING METHOD FOR NONVOLATILE
2002-370273	AF02791JP	Japan	12/20/2002		CONTROL METHOD FOR SEMICONDUCTOR
2002-370275	AF02792JP	Japan	12/20/2002		SEMICONDUCTOR OR DEVICE SEMICONDUCTOR

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3890014	AF02793JP	Japan	12/20/2002	12/08/2006	SEMICONDUCTOR MEMORY DEVICE AND
2005-500549	AF02794JP	Japan	06/05/2003		VIRTUAL GROUND NONVOLATILE
4142685	AF02795JP	Japan	06/05/2003	06/20/2008	SEMICONDUCTOR OR MEMORY WITH
2002-348485	AF02796	Japan	11/29/2002		NONVOLATILE SEMICONDUCTOR OR MEMORY
2002-342677	AF02797JP	Japan	11/26/2002		SEMICONDUCTOR DEVICE AND TEST
4136646	AF02798JP	Japan	12/20/2002	06/13/2008	SEMICONDUCTOR OR MEMORY DEVICE AND
4067956	AF02799JP	Japan	12/20/2002	01/18/2008	CONTROL METHOD FOR NONVOLATILE
3999151	AF02800JP	Japan	03/20/2003	08/17/2007	SEMICONDUCTOR OR MEMORY DEVICE
4104133	AF02801JP	Japan	05/09/2003	04/04/2008	NONVOLATILE SEMICONDUCTOR OR DEVICE
4035573	AF02802JP	Japan	12/20/2002	11/09/2007	SEMICONDUCTOR OR MEMORY DEVICE AND
2002-230062	AF02803JP	Japan	08/07/2002		SEMICONDUCTOR OR MEMORY DEVICE AND
2005-096274	AF02804JP	Japan	03/29/2005		SEMICONDUCTOR DEVICE
H10-66888	AF02805JP	Japan	03/17/1998		MANUFACTURING METHOD OF
H10-66898	AF02806JP	Japan	03/17/1998		SEMICONDUCTOR OR DEVICE AND
H10-128682	AF02807	Japan	05/12/1998		MANUFACTURING METHOD OF
H10-345307	AF02808	Japan	12/04/1998		MANUFACTURING METHOD OF
H10-349028	AF02809JP	Japan	12/08/1998		SEMICONDUCTOR OR MEMORY DEVICE AND
2005-352897	AF02810JP DIV	Japan	12/07/2005		PORTABLE ELECTRONIC EQUIPMENT USED WITH LID OPENED, CONTROL METHOD OF ELECTRONIC EQUIPMENT, AND PROGRAM INFORMATION RECORDING APPARATUS AND CONTROL METHOD THEREOF
2005-352898	AF02811JP DIV	Japan	12/07/2005		STACKING TECHNOLOGY OF RERAM
5557419	AF02812JP	Japan	10/17/2007	06/13/2014	A SEMICONDUCTOR DEVICE AND ITS MANUFACTURING METHOD
5319092	AF02813JP	Japan	09/03/2007	07/19/2013	The manufacturing method of a semiconductor device
5313486	AF02815JP	Japan	11/15/2007	07/12/2013	SEMICONDUCTOR DEVICE AND ITS MANUFACTURING METHOD (AS AMENDED)
5553960	AF02822JP	Japan	10/25/2007	06/06/2014	SEMICONDUCTOR DEVICE
5395344	AF02827JP	Japan	09/28/2007	10/25/2013	MEMORY SYSTEM HAVING A SWITCHING ELEMENT
2013-046514	AF02827JP DIV	Japan	09/28/2007		PROGRAMMING METHOD FOR MIM TYPE MEMORY
2008-123560	AF02828JP	Japan	05/09/2008		SEMICONDUCTOR DEVICE
5435857	AF02829JP	Japan	11/07/2007	12/20/2013	SEMICONDUCTOR DEVICE AND METHOD FOR MANUFACTURING THE SAME
5294611	AF02830JP	Japan	11/14/2007	06/21/2013	SEMICONDUCTOR DEVICE AND METHOD FOR MANUFACTURING THE SAME
5686838	AF02830JP DIV	Japan	04/02/2013	01/30/2015	MANUFACTURING METHOD FOR SEMICONDUCTOR DEVICE
5264139	AF02832JP	Japan	10/09/2007	05/10/2013	ASYNCHRONOUS READ FUNCTION OF SYNCHRONOUS MB-DDR
4759717	AF02837JP	Japan	02/18/2008	06/17/2011	MEMORY CONTROLLER
5107776	AF02838JP	Japan	04/07/2008	10/12/2012	CONTROL METHOD OF GBL AND LBL IN A READ
2007-319147	AF02839JP	Japan	12/11/2007		MEMORY ARRAY STRUCTURE AND SENSE AMPLIFIER CIRCUIT AND THE CONTROL METHOD FOR USE IN NONVOLATILE MEMORY
2008-167151	AF02840JP	Japan	06/26/2008		NONVOLATILE MEMORY AND METHOD OF READING DATA FROM NONVOLATILE MEMORY (AS AMENDED)
5289860	AF02841JP	Japan	08/25/2008	06/14/2013	METHOD AND VERIFY OF INTERNAL STEP-DOWN VOLTAGE CONTROL
2008-178653	AF02842JP	Japan	07/09/2008		SEMICONDUCTOR DEVICE AND METHOD OF CONTROLLING THE SAME
2009-012221	AF02843JP	Japan	01/22/2009		SEMICONDUCTOR DEVICE, SEMICONDUCTOR SYSTEM
5161667	AF02845JP	Japan	06/23/2008	12/21/2012	SEMICONDUCTOR DEVICE AND DATA READ-OUT METHOD
5314943	AF02846JP	Japan	06/20/2008	07/12/2013	THE ECC FUNCTION THAT IT IS EMBEDDED IN PROGRAM / ERASE -1-
2008-066346	AF02847	Japan	03/14/2008		SENSE AMPLIFIER AND OPERATION METHOD FOR MIRRORBIT DDR
2008-108886	AF02852JP	Japan	04/18/2008		The manufacturing method of a semiconductor device
5363004	AF02860JP	Japan	02/18/2008	09/13/2013	ELECTRONIC CIRCUIT
5301147	AF02869JP	Japan	12/13/2007	06/28/2013	SIMPLE CHAINED MEMORY SYSTEM PROTOCOL
2010-534979	AF02873JP	Japan	11/25/2008		A SYSTEM AND METHOD FOR ACCESSING MEMORY
5566899	AF02874JP	Japan	11/25/2008	06/27/2014	A METHOD FOR SETTING PARAMETERS AND DETERMINING LATENCY IN A CHAINED DEVICE SYSTEM
5429572	AF02875JP	Japan	11/25/2008	12/13/2013	A CONTROL SCHEME FOR LOWERING LATENCY AND IMPROVING BANDWIDTH IN A DAISY CHAINED DEVICE SYSTEM
2010-534980	AF02876JP	Japan	05/24/2010		VOLTAGE COMPARATOR AND ELECTRONIC SYSTEM
5322457	AF02878JP	Japan	02/19/2008	07/26/2013	SEMICONDUCTOR DEVICE AND METHOD OF MANUFACTURING THE SAME
5358089	AF02888JP	Japan	12/21/2007	09/06/2013	SEMICONDUCTOR DEVICE AND METHOD OF MANUFACTURING THE SAME
5290592	AF02891JP	Japan	02/18/2008	06/14/2013	COMPONENTS CAPABLE OF DETECTING PREDETERMINED TIME BY UTILIZING ReRAM
5174561	AF02904JP	Japan	07/08/2008	01/11/2013	SEMICONDUCTOR DEVICE AND METHOD OF MANUFACTURING THE SAME
5491694	AF02908JP	Japan	11/28/2007	03/07/2014	SEMICONDUCTOR DEVICE AND MANUFACTURING METHOD THEREOF
5237648	AF02909JP	Japan	02/05/2008	04/05/2013	SEMICONDUCTOR DEVICE AND MANUFACTURING METHOD THEREOF
5149694	AF02910JP	Japan	05/15/2008	12/07/2012	SYSTEM FOR SOURCE SIDE SENSING
2002-214179	AF02911JP	Japan	07/23/2002		SEMICONDUCTOR DEVICE AND ITS MANUFACTURING METHOD
5270178	AF02917JP	Japan	01/16/2008	05/17/2013	SEMICONDUCTOR DEVICE AND CONTROL METHOD THEREOF
5259279	AF02919JP	Japan	07/04/2008	05/02/2013	SEMICONDUCTOR DEVICE AND ITS CONTROL METHOD
5236343	AF02920JP	Japan	04/16/2008	04/05/2013	SEMICONDUCTOR DEVICE AND ITS CONTROL METHOD
5542222	AF02920JP DIV	Japan	04/16/2008	05/16/2014	SEMICONDUCTOR DEVICE
4995156	AF02924JP	Japan	08/06/2008	05/18/2012	A semiconductor device and its control method
5420215	AF02925JP	Japan	08/28/2008	11/29/2013	HIGH-DENSITY CHIP STACK STRUCTURE UTILIZING SIDE WIRE IN WAFER LEVEL PROCESS
5174518	AF02927JP	Japan	04/17/2008	01/11/2013	SEMICONDUCTOR DEVICE AND METHOD OF MANUFACTURING THE SAME
5317548	AF02928JP	Japan	06/23/2008	07/19/2013	

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5215032	AF02929JP	Japan	05/09/2008	03/08/2013	METHOD FOR MANUFACTURING SEMICONDUCTOR DEVICE
5237731	AF02935JP	Japan	09/10/2008	04/05/2013	MEMORY SYSTEM, MEMORY DEVICE, AND MEMORY ACCESS METHOD
5489427	AF02938JP	Japan	06/27/2008	03/07/2014	MEMORY CONTROLLER, MEMORY SYSTEM AND CONTROL METHOD FOR MEMORY DEVICE
5566013	AF02939JP	Japan	07/28/2008	06/27/2014	A semiconductor device and its manufacturing method
5390822	AF02940JP	Japan	10/02/2008	10/18/2013	The manufacturing method of a semiconductor device, and a semiconductor device
5546114	AF02941JP	Japan	08/27/2008	05/23/2014	The manufacturing method of a semiconductor device, and a semiconductor device
5405066	AF02942JP	Japan	07/28/2008	11/08/2013	The manufacturing method of a semiconductor device
4967110	AF02943JP	Japan	04/24/2008	04/13/2012	METHOD FOR MANUFACTURING SEMICONDUCTOR DEVICE
5511168	AF02947JP	Japan	09/19/2008	04/04/2014	The manufacturing method of a semiconductor device
2008-167044	AF02950JP	Japan	06/26/2008		SEMICONDUCTOR DEVICE AND METHOD OF MANUFACTURING THE SAME
2014-116618	AF02950JP DIV	Japan	06/26/2008		SEMICONDUCTOR DEVICE AND METHOD OF MANUFACTURING THE SAME
4876231	AF02952JP	Japan	04/11/2008	12/09/2011	BIT LINE CONTACT FORMATION BY USING AMORPHOUS CARBON MASK
2008-241259	AF02954JP	Japan	09/19/2008		SEMICONDUCTOR MEMORY AND METHOD OF READING THE SAME
4882055	AF02955JP	Japan	04/11/2008	12/16/2011	FABRICATING METHOD OF BIT LINE CONTACT USING TWO-LAYERS AMORPHOUS CARBON LAYER AS ETCHING STOPPER LAYER
2011-190423	AF02955JP DIV	Japan	04/11/2008		FABRICATING METHOD OF BIT LINE CONTACT USING TWO-LAYERS AMORPHOUS CARBON LAYER AS ETCHING STOPPER LAYER
2013-234717	AF02955JP DIV2	Japan	04/11/2008		FABRICATING METHOD OF BIT LINE CONTACT USING TWO-LAYERS AMORPHOUS CARBON LAYER AS ETCHING STOPPER LAYER
5264465	AF02959JP	Japan	12/19/2008	05/10/2013	The address designation method of a non-volatile memory apparatus and a non-volatile memory apparatus
5153474	AF02961JP	Japan	06/23/2008	12/14/2012	SEMICONDUCTOR DEVICE AND ITS CONTROL METHOD (AS AMENDED)
2008-036605	AF02971JP	Japan	02/18/2008		METHOD OF MANUFACTURING SEMICONDUCTOR DEVICE
5475975	AF02973JP	Japan	09/19/2008	02/14/2014	A semiconductor device and its adjustment method
2008-241281	AF02977JP	Japan	09/19/2008		GATE VOLTAGE CONTROL METHOD FOR READ OF MULTI-LEVEL CELL
5595644	AF03007JP	Japan	06/26/2008	08/15/2014	A semiconductor device and its manufacturing method
2013-524213	AF03209JP	Japan	08/10/2011		STITCH BUMP STACKING DESIGN FOR OVERALL PACKAGE SIZE REDUCTION FOR MULTIPLE STACK
2013-518658	AF03219JP	Japan	06/29/2011		METHOD AND SYSTEM FOR THIN MULTI CHIP STACK PACKAGE WITH FILM ON WIRE AND COPPER WIRE
4085147	AF04002JP	Japan	10/11/2002	02/29/2008	METHOD AND APPARATUS FOR MANUFACTURING SEMICONDUCTOR DEVICE
5019685	AF04008JP	Japan	09/20/2001	06/22/2012	MANUFACTURING METHOD FOR SEMICONDUCTOR DEVICE
5179692	AF04011JP	Japan	08/30/2002	01/18/2013	SEMICONDUCTOR MEMORY DEVICE AND ITS MANUFACTURING METHOD
4171322	AF04013JP	Japan	02/17/2003	08/15/2008	ACCESS CONTROL SYSTEM AND ACCESS CONTROL PROGRAM
4210107	AF04014JP	Japan	12/06/2002	10/31/2008	TESTING APPARATUS AND TESTING METHOD FOR SEMICONDUCTOR STORAGE DEVICE
4256185	AF04015JP	Japan	03/24/2003	02/06/2009	AIR CURRENT CONTROL STRUCTURE IN CLEAN ROOM
5714495	AF04026JP	Japan	10/07/2009	03/20/2015	REAL-TIME DATA PATTERN ANALYSIS SYSTEM AND METHOD OF OPERATION THEREOF
4928691	AF04034US	Japan	09/13/2001	02/17/2012	ULTRAVIOLET-RAY IRRADIATION APPARATUS
2014-547556	AF04035JP	Japan	12/18/2012		ACOUSTIC PROCESSING UNIT INTERFACE
2014-547557	AF04036JP	Japan	12/18/2012		ARITHMETIC LOGIC UNIT ARCHITECTURE
5513285	AF04039JP	Japan	07/06/2010	04/04/2014	NONVOLATILE SEMICONDUCTOR MEMORY DEVICE
2014-066682	AF04040JP	Japan	07/06/2010		CONTROL METHOD OF NONVOLATILE SEMICONDUCTOR MEMORY DEVICE
5661353	AF04040JP DIV	Japan	07/06/2010	12/12/2014	NONVOLATILE SEMICONDUCTOR MEMORY DEVICE
4340416	AF04044JP	Japan	02/26/2002	10/07/2009	METHOD OF FABRICATING SEMICONDUCTOR MEMORY DEVICE, AND THE SEMICONDUCTOR MEMORY DEVICE
4139266	AF04060JP	Japan	05/13/2003	06/13/2008	METHOD OF MANUFACTURING SEMICONDUCTOR DEVICE
223235/1995	B001JP	Japan	08/31/1995		ONE-TRANSISTOR MEMORY CELL STRUCTURE AND METHOD FOR FORMING SELF-ALIGNED ONE-TRANSISTOR MEMORY CELL STRUCTURE
223234/1995	B002JP	Japan	08/31/1995		A SELF-ALIGNED BURIED CHANNEL/JUNCTION STACKED GATE FLASH MEMORY CELL
514582/1996	B015/2104JP	Japan	09/29/1995		LAYERED LOW DIELECTRIC CONSTANT TECHNOLOGY
1975164	B047JP	Japan	06/19/1997		NOVEL PROCESSING TECHNIQUES FOR ACHIEVING PRODUCTION WORTHY LOW DIELECTRIC LOW INTERCONNECT RESISTANCE AND HIGH PERFORMANCE
3821848	B100JP	Japan	07/31/1996	06/30/2006	THREE-DIMENSIONAL NON-VOLATILE MEMORY
3968107	B100JP DIV	Japan	09/21/2005	06/08/2007	3-D NONVOLATILE MEMORY
3941882	B111JP	Japan	06/21/1996	04/13/2007	THE PROCESS FOR THE SELF-ADJUSTMENT-IZED SOURCE FOR HIGH- DENSITY MEMORY
3928022	B128JP	Japan	08/30/1996	03/16/2007	A FLASH EEPROM MEMORY WITH SEPARATE REFERENCE ARRAY
3903142	B132JP	Japan	06/18/1996	01/19/2007	CHANNEL HOT CARRIER PAGE WRITE
521236/1997	B255JP	Japan	08/08/1996		POWER SUPPLY INDEPENDENT CURRENT SOURCE FOR FLASH EPROM ERASE
3947781	B260JP	Japan	07/19/1996	04/27/2007	A NEW PROGRAM ALGORITHM FOR LOW VOLTAGE (3V) SINGLE POWER SUPPLY FLASH MEMORIES
3976282	B277JP	Japan	03/25/1997	06/29/2007	THE NOVEL PROCESS FOR RELIABLE ULTR-THIN OXYNITRIDE FORMATION
107348/2007	B277JP DIV	Japan	04/16/2007		A NOVEL PROCESS FOR RELIABLE ULTRATHIN OXYNITRIDE FORMATION

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3429008	C061296JP	Japan	01/23/1998	05/16/2003	HIGH VOLTAGE CMOS LEVEL SHIFTER
2000-514272	C141496JP	Japan	04/10/1998		A DUAL SOURCE SIDE POLYSILICON SELECT GATE STRUCTURE AND PROGRAMMING METHOD UTILIZING SINGLE TUNNEL OXIDE FOR NAND ARRAY FLASH MEMORY
3283531	C144496JP	Japan	02/05/1998	03/01/2002	HIGH VOLTAGE NMOS PASS GATE FOR INTEGRATED CIRCUIT WITH HIGH VOLTAGE GENERATOR AND FLASH NON-VOLATILE MEMORY DEVICE HAVING THE PASS GATE
3327337	C196596JP	Japan	11/13/1997	07/12/2002	BANK ARCHITECTURE FOR A NON-VOLATILE MEMORY ENABLING SIMULTANEOUS READING AND WRITING
4197843	C369297JP	Japan	12/18/1998	10/10/2008	BIASING METHOD AND STRUCTURE FOR REDUCING BAND-TO-BAND AND/OR AVALANCHE CURRENTS DURING THE ERASE OF FLASH MEMORY DEVICE
4546641	C526397JP	Japan	08/25/1998	09/15/2010	REDUCTION OF CHARGE LOSS IN NONVOLATILE MEMORY CELLS BY PHOSPHOROUS IMPLANTATION INTO PECVD NITRIDE/OXYNITRIDE FILMS
3703069	C608497JP	Japan	05/20/1999	07/29/2005	SHALLOW TRENCH ISOLATION FILLED WITH THERMAL OXIDE
2000-537261	C614497JP	Japan	03/02/1999		STEPPER ALIGNMENT MARK FORMATION WITH DUAL FIELD OXIDE PROCESS
4606580	C627497JP	Japan	12/18/1998	01/05/2011	METHODS AND ARRANGEMENTS FOR IMPROVED FORMATION OF CONTROL AND FLOATING GATES IN NON-VOLATILE MEMORY SEMICONDUCTOR DEVICES
2001-520468	C656497JP	Japan	08/31/2000		TUNGSTEN GATE MOS TRANSISTOR AND MEMORY CELL AND METHOD OF MAKING SAME
2001-509081	C695497JP	Japan	06/29/2000		THIN FLOATING GATE AND CONDUCTIVE SELECT GATE IN SITU
2000-575132	C715497JP	Japan	09/21/1999		WORDLINE DRIVER FOR FLASH ELECTRICALLY ERASABLE PROGRAMMABLE READ-ONLY MEMORY (EEPROM)
3761815	C725497JP	Japan	08/01/2000	01/20/2006	CIRCUIT IMPLEMENTATION TO QUENCH BIT LINE LEAKAGE CURRENT IN PROGRAM AND AUTO PROGRAM DISTURB MODE IN FLASH EPROM USING RESISTOR SOURCE LOAD
4044443	C732497US	Japan	04/26/2002	11/22/2007	REMOTE MAINTENANCE SYSTEM AND REMOTE MAINTENANCE METHOD FOR SEMICONDUCTOR MANUFACTURING APPARATUS
2000-577665	D016	Japan	10/05/1999		BIT LINE BIASING METHOD TO ELIMINATE PROGRAM DISTURBANCE IN A NON-VOLATILE MEMORY DEVICE AND MEMORY DEVICE EMPLOYING THE SAME
2000-577666	D138JP	Japan	04/19/2001		SCHEME FOR PAGE ERASE AND ERASE VERIFY IN A NON-VOLATILE MEMORY ARRAY
4279469	D139	Japan	08/16/1999	02/05/2010	BANK SELECTOR CIRCUIT FOR A SIMULTANEOUS OPERATION FLASH MEMORY DEVICE WITH A FLEXIBLE BANK PARTITION ARCHITETURE
3197535	D140JP	Japan	07/14/1999	06/08/2001	VT REFERENCE VOLTAGE FOR EXTREMELY LOW POWER-SUPPLY
2000-571459	D168JP	Japan	08/16/1999		SIMULTANEOUS OPERATION FLASH MEMORY DEVICE WITH A FLEXIBLE DEVICE WITH A FLEXIBLE BANK PARTITION ARCHITECTURE
4642234	D169JP	Japan	08/16/1999	12/10/2010	METHOD OF MAKING FLEXIBLY PARTITIONED METAL LINE SEGMENTS FOR A SIMULTANEOUS OPERATION FLASH MEMORY DEVICE WITH A FLEXIBLE BANK PARTITION ARCHITECTURE
4279468	D170	Japan	08/16/1999	03/19/2009	MEMORY ADDRESS DECODING CIRCUIT FOR A SIMULTANEOUS OPERATION FLASH MEMORY DEVICE WITH A FLEXIBLE BANK PARTITION ARCHITECTURE
2000-584526	D802JP	Japan	10/27/1999		METHOD FOR IMPROVING ELECTROSTATIC DISCHARGE (ESD) ROBUSTNESS
3811760	D832JP	Japan	05/05/2000	06/09/2006	RAMPED OR STEPPED GATE CHANNEL ERASE FOR FLASH MEMORY APPLICATION
520419/2001	D833JP	Japan	08/29/2000		1 TRANSISTOR FOR EEPROM APPLICATION
4895452	D838JP	Japan	10/24/2000	01/06/2012	SOLID-SOURCE DOPING FOR SOURCE/DRAIN OF FLASH MEMORY
516197/2001	D844JP	Japan	07/14/2000		RAMPED GATE TECHNIQUE FOR SOFT PROGRAMMING TO TIGHTEN THE V _t DISTRIBUTION
4641697	D853JP	Japan	12/05/2000	12/10/2010	METHOD TO PROVIDE A REDUCED CONSTANT E-FIELD DURING ERASE OF EEPROMS FOR RELIABILITY IMPROVEMENT
4955880	D877JP	Japan	07/17/2000	03/23/2012	PROCESS FOR FABRICATING INTEGRATED CIRCUIT FORMING TRENCH IN SUBSTRATE (AS AMENDED)
4944328	D894JP	Japan	09/29/2000	03/09/2012	METHOD OF MANUFACTURING A SEMICONDUCTOR MEMORY DEVICE WITH ANTI-REFLECTIVE COATING
2001-555131	D958JP	Japan	12/13/2000		NITRIDATION BARRIERS FOR NITRIDATED TUNNEL OXIDE FOR CIRCUITRY FOR FLASH MEMORY TECHNOLOGY AND...
203354/2010	D958JP DIV	Japan	12/13/2000		NOVEL NITRIDATION BARRIERS FOR NITRIDATED TUNNEL OXIDE FOR CIRCUITRY FOR FLASH TECHNOLOGY AND FOR LOCOS/STI ISOLATION
5178979	DA01016JP	Japan	07/14/2000	01/18/2013	METHOD FOR PROVIDING A DOPANT LEVEL FOR POLYSILICON FOR FLASH MEMORY DEVICES
509080/2001	E0197JP	Japan	06/29/2000		NEW METHOD OF FORMING SELECT GATE TO IMPROVE RELIABILITY AND PERFORMANCE FOR NAND-TYPE FLASH MEMORY DEVICES
4832691	E0251JP	Japan	07/14/2000	09/30/2011	FLASH MEMORY ARCHITECTURE EMPLOYING THREE LAYER METAL INTERCONNECT
4606682	E0264JP	Japan	02/07/2001	10/15/2010	TRIMMING METHOD FOR WORDLINE BOOSTER TO MINIMIZE PROCESS VARIATION OF BOOSTED WORDLINE VOLTAGE
5016769	E0302JP	Japan	05/01/2001	06/15/2012	UNIFORM BITLINE STRAPPING OF A NON-VOLATILE MEMORY CELL
569884/2001	E0370JP	Japan	03/12/2001		METHOD FOR FORMING DUAL SPACERS AND NON-VOLATILE MEMORY DEVICE MADE THEREBY
4606694	E0462JP	Japan	05/21/2001	10/15/2010	DUAL PORTED CAMS FOR SIMULTANEOUS OPERATION FLASH MEMORY
564161/2001	E1030JP	Japan	02/07/2001		TEMPERATURE COMPENSATED BIAS GENERATOR

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4698119	F0004JP	Japan	06/08/2001	03/11/2011	AUTOMATED DETERMINATION AND DISPLAY OF THE PHYSICAL LOCATION OF A FAILED CELL IN AN ARRAY OF MEMORY CELLS
4601250	F0257JP	Japan	08/07/2001	10/08/2010	METHOD AND SYSTEM FOR EMBEDDED CHIP ERASE VERIFICATION
2003-562937	F0258	Japan	12/17/2002		METHOD AND APPARATUS FOR SOFT PROGRAM VERIFICATION IN A MEMORY DEVICE
4128950	F0260JP	Japan	12/12/2001	05/23/2008	METHOD AND APPARATUS FOR BOOSTING BITLINES FOR LOW VCC READ
2007-211874	F0260JP DIV	Japan	12/12/2001		METHOD AND APPARATUS FOR BOOSTING BITLINES FOR LOW VCC READ
4106028	F0262JP	Japan	12/17/2002	04/04/2008	METHOD AND APPARATUS FOR SOFT PROGRAM VERIFICATION IN A MEMORY DEVICE
2003-562936	F0272JP	Japan	12/17/2002		CHARGE INJECTION
3955530	F0274JP	Japan	11/01/2001	05/11/2007	HIGHER PROGRAM VT AND FASTER PROGRAMMING RATES BASED ON IMPROVED ERASE METHODS
4482704	F0282JP	Japan	09/30/2002	04/02/2010	DOUBLE DENSED CORE GATES IN SONOS FLASH MEMORY
5113316	F0283JP	Japan	09/27/2002	10/19/2012	SALICIDED GATE FOR VIRTUAL GROUND ARRAYS
4955902	F0499JP	Japan	08/06/2001	03/23/2012	METHOD FOR MANUFACTURING FLASH MEMORY CELL
4944352	F0932JP	Japan	08/06/2001	03/09/2012	METHOD FOR MANUFACTURING FLASH MEMORY CELL
4-182512	FMA13-0001US	Japan	07/09/1992		SEMICONDUCTOR INTEGRATED CIRCUIT
3-199182	FMA13-0002EP	Japan	08/08/1991		PLL SYNTHESIZER CIRCUIT
3,318,365	FMA13-0003US CON	Japan	10/20/1992	06/14/2002	CONSTANT VOLTAGE CIRCUIT
3693681	FMA13-0004JP	Japan	03/18/1993	07/01/2005	ARITHMETIC UNIT
2980142	FMA13-0005US	Japan	12/10/1992	09/17/1999	SEMICONDUCTOR CAPACITANCE ELEMENT AND CIRCUIT USING THE SAME
2963270	FMA13-0006JP	Japan	03/13/1992	08/06/1999	MICROCONTROLLER FOR SPECIFIC APPLICATION
3449749	FMA13-0007JP	Japan	06/25/1993	07/11/2003	INFORMATION PROCESSING APPARATUS
5-334973	FMA13-0008US	Japan	12/28/1993		POTENTIAL GENERATING CIRCUIT
3538442	FMA13-0009US	Japan	09/20/1993	03/26/2004	ECL-TO-CMOS SIGNAL LEVEL CONVERTER
3282907	FMA13-0010JP	Japan	01/27/1994	03/01/2002	REFERENCE VOLTAGE GENERATION CIRCUIT
3335455	FMA13-0011EP	Japan	01/19/1994	08/02/2002	TRANSIMPEDANCE AMPLIFIER
3647481	FMA13-0012JP	Japan	04/28/1994	02/18/2005	MICROCONTROLLER
3437274	FMA13-0013JP	Japan	08/12/1994	06/06/2003	REFERENCE VOLTAGE CIRCUIT
3727670	FMA13-0014US	Japan	04/28/1994	10/07/2005	MULTIPLE OPERATION MODE MICROCONTROLLER
3478596	FMA13-0015GB	Japan	05/27/1993	10/03/2003	POWER SUPPLY CONNECTION CIRCUIT AND SWITCHING IC FOR POWER SUPPLY LINE
3481323	FMA13-0016JP	Japan	11/07/1994	10/10/2003	CURRENT DETECTION CIRCUIT AND CURRENT MONITOR DEVICE
3404127	FMA13-0017US	Japan	06/17/1994	02/28/2003	SEMICONDUCTOR MEMORY DEVICE HAVING BIT LINE PRECHARGER
3411120	FMA13-0018JP	Japan	03/08/1995	03/20/2003	PLL CIRCUIT
3512895	FMA13-0019JP DIV	Japan	04/08/1994	01/16/2004	REFERENCE VOLTAGE GENERATION CIRCUIT
3614198	FMA13-0020JP	Japan	01/26/1995	11/12/2004	METHOD FOR SCHEDULING INSTRUCTION IN ASSEMBLER
3930576	FMA13-0021JP	Japan	07/11/1995	03/16/2007	COMPUTER SYSTEM WITH A FUNCTION PREVENTING ILLEGAL USE OF SOFTWARE
2005-162431	FMA13-0021JP DIV	Japan	07/11/1995		STORAGE MEDIUM HAVING SOFTWARE MISUSE PREVENTIVE FUNCTION
3514532	FMA13-0022US	Japan	11/30/1994	01/23/2004	CLOCK SIGNAL GENERATING DEVICE
3567510	FMA13-0023JP	Japan	12/16/1994	06/25/2004	INTERRUPT PRIORITY DECISION CIRCUIT
2004-317466	FMA13-0024JP	Japan	12/12/1994		INFORMATION PROCESSING APPARATUS
2004-317493	FMA13-0024JP DIV	Japan	12/12/1994		INFORMATION PROCESSOR
3724001	FMA13-0024US DIV	Japan	12/12/1994	09/30/2005	INFORMATION PROCESSING DEVICE WITH DECISION CIRCUITS AND ...
3544243	FMA13-0025JP	Japan	05/11/1995	04/16/2004	DIFFERENTIAL AMPLIFIER
3487003	FMA13-0026JP	Japan	02/08/1995	10/31/2003	BIAS VOLTAGE GENERATION CIRCUIT
3630796	FMA13-0027JP	Japan	10/04/1995	12/24/2004	SWITCHED CAPACITOR OPERATIONAL CIRCUIT
3538483	FMA13-0028JP	Japan	07/27/1995	03/26/2004	OUTPUT CIRCUIT
3665395	FMA13-0029JP	Japan	10/13/1995	04/08/2005	INTERFACE CIRCUIT
4866158	FMA13-0030JP	Japan	06/20/2006	11/18/2011	REGULATOR CIRCUIT
4846493	FMA13-00304JP	Japan	09/05/2006	10/21/2011	DEBUGGING SYSTEM, DEBUGGING CIRCUIT AND INFORMATION PROCESSING APPARATUS
2005-268216	FMA13-00305JP	Japan	09/15/2005		IMAGE PROCESSOR AND IMAGE PROCESSING METHOD
2006-181692	FMA13-00305JP DIV	Japan	09/15/2005		IMAGE PROCESSOR AND IMAGE PROCESSING METHOD
2006-269854	FMA13-00306JP	Japan	09/29/2006		STEPPING MOTOR CONTROLLER, STEPPING MOTOR CONTROL METHOD AND STEPPING MOTOR CONTROL SYSTEM
4814950	FMA13-00307JP	Japan	09/29/2006	09/02/2011	TRANSMITTING/RECEIVING SYSTEM, NODE AND COMMUNICATION METHOD
5098367	FMA13-00308JP	Japan	03/06/2007	10/05/2012	POWER SUPPLY VOLTAGE REGULATOR CIRCUIT AND MICROCOMPUTER
4930510	FMA13-00309JP	Japan	09/28/2006	02/24/2012	SIGNAL RECEIVER APPARATUS AND WAVEFORM SHAPING METHOD
3288553	FMA13-0030JP	Japan	05/25/1995	03/15/2002	RESISTOR ARRAY FOR A/D CONVERTER AND N-M BITS SERIES-PARALLEL A/D CONVERTER
5245237	FMA13-00310JP	Japan	09/29/2006	04/19/2013	ERROR PROCESSING METHOD AND INFORMATION PROCESSING APPARATUS
4978233	FMA13-00311JP	Japan	02/22/2007	04/27/2012	A simulator development system and the simulator development method
4888056	FMA13-00312JP	Japan	10/30/2006	12/22/2011	POWER SUPPLY CIRCUIT, POWER SUPPLY CONTROL CIRCUIT, AND POWER ...
4899624	FMA13-00313JP	Japan	05/11/2006	01/13/2012	CIRCUIT FOR PREVENTING THROUGH CURRENT IN DC-DC CONVERTER
2006-192600	FMA13-00314JP	Japan	07/13/2006		DC-DC CONVERTER
4823003	FMA13-00315JP	Japan	09/28/2006	09/16/2011	CONTROL CIRCUIT OF SYNCHRONOUS RECTIFICATION TYPE POWER SUPPLY UNIT, ...

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5595633	FMA13-00316JP	Japan	02/26/2007	08/15/2014	SIMULATION METHOD AND SIMULATION APPARATUS
4791260	FMA13-00317JP	Japan	06/09/2006	07/29/2011	DC-DC CONVERTER WITH OSCILLATOR AND MONITORING FUNCTION
5076381	FMA13-00318JP	Japan	07/07/2006	09/07/2012	SOFTWARE DEVELOPMENT APPARATUS AND METHOD
4967526	FMA13-00319JP	Japan	08/22/2006	04/13/2012	CONTROL CIRCUIT OF POWER SUPPLY UNIT WHICH CONTROL OUTPUT POWER ...
3218914	FMA13-0031JP	Japan	04/27/1995	08/10/2001	TERMINATION CIRCUIT FOR SIGNAL LINE
5076536	FMA13-00320JP	Japan	02/16/2007	09/07/2012	DC-DC CONVERTER WITH PLURALITY OF SOFT-START CONTROL CIRCUITS
5023731	FMA13-00321JP	Japan	02/16/2007	06/29/2012	POWER SUPPLY CIRCUIT, POWER SUPPLY CONTROL CIRCUIT, AND POWER ...
4827764	FMA13-00322JP	Japan	02/20/2007	09/22/2011	FRACTIONAL FREQUENCY DIVIDER PLL DEVICE AND CONTROL METHOD THEREOF
4997891	FMA13-00323JP	Japan	09/15/2006	05/25/2012	METHOD AND CIRCUIT FOR CONTROLLING DC-DC CONVERTER
4962060	FMA13-00324JP	Japan	03/14/2007	04/06/2012	Parity error restoration circuit
5292706	FMA13-00325JP	Japan	02/28/2007	06/21/2013	COMPUTER SYSTEM AND MEMORY SYSTEM
4985035	FMA13-00326JP	Japan	03/30/2007	05/11/2012	OSCILLATOR CIRCUIT
5261919	FMA13-00327JP	Japan	11/10/2006	05/10/2013	CONTROL CIRCUIT FOR DETECTING A REVERSE CURRENT IN A DC- DC CONVERTER
5263380	FMA13-00327JP DIV	Japan	12/26/2011	05/10/2013	CONTROL CIRCUIT FOR DETECTING A REVERSE CURRENT IN A DC- DC CONVERTER
5125066	FMA13-00328JP	Japan	11/10/2006	11/09/2012	CONTROL CIRCUIT FOR SYNCHRONOUS RECTIFIER-TYPE DC-DC CONVERTER, SYNCHRONOUS RECTIFIER-TYPE DC-DC CONVERTER AND CONTROL METHOD THEREOF
5034451	FMA13-00329JP	Japan	11/10/2006	07/13/2012	CONTROL CIRCUIT FOR CURRENT MODE DC-DC CONVERTER AND CONTROL METHOD OF CURRENT MODE DC-DC CONVERTER
3437322	FMA13-0032JP	Japan	04/07/1995	06/06/2003	SEMICONDUCTOR INTEGRATED CIRCUIT DEVICE
4918874	FMA13-00330JP	Japan	03/14/2007	02/10/2012	CLOCK SIGNAL TRANSMISSION CIRCUIT
2009-508777	FMA13-00331US	Japan	03/29/2007		DISPLAY CONTROL DEVICE, INFORMATION PROCESSOR, AND DISPLAY CONTROL PROGRAM
4667525	FMA13-00332JP	Japan	06/22/2007	01/21/2011	A PLL control circuit, a PLL apparatus, and a PLL control method
5028972	FMA13-00333JP	Japan	11/27/2006	07/06/2012	OPERATION AMPLIFIER CIRCUIT
2006-318638	FMA13-00334US DIV	Japan	11/27/2006		PLL CIRCUIT
4952783	FMA13-00335JP	Japan	03/14/2007	03/23/2012	OUTPUT CIRCUIT
5045167	FMA13-00336JP	Japan	03/16/2007	07/27/2012	OSCILLATION CIRCUIT AND SEMICONDUCTOR DEVICE
4789835	FMA13-00337JP	Japan	03/15/2007	07/29/2011	IEEE 1394 TRANSMITTER, IEEE 1394 RECEIVER AND AUDIO DATA CONTENT TRANSMISSION METHOD
4984997	FMA13-00338JP	Japan	03/16/2007	05/11/2012	The control circuit, power supply voltage supply system, and the power supply voltage supply method of a DC-DC converter
5352964	FMA13-00339US	Japan	03/29/2007	09/06/2013	DC-DC CONVERTER, METHOD AND SYSTEM FOR SUPPLYING POWER SUPPLY VOLTAGE
3456303	FMA13-0033JP	Japan	05/19/1995	08/01/2003	SEMICONDUCTOR INTEGRATED CIRCUIT
5211523	FMA13-00340JP	Japan	03/27/2007	03/08/2013	DC-DC CONVERTER, POWER SUPPLY SYSTEM, AND POWER SUPPLY METHOD
5167665	FMA13-00341JP	Japan	03/26/2007	01/11/2013	CONTROL CIRCUIT FOR STEP-DOWN DC-DC CONVERTER, STEP- DOWN DC-DC CONVERTER AND CONTROL METHOD THEREOF
4968325	FMA13-00342JP	Japan	03/08/2007	04/13/2012	SOFTWARE OPTIMIZATION DEVICE AND SOFTWARE OPTIMIZATION METHOD
5458208	FMA13-00343JP	Japan	03/20/2007	01/17/2014	PROCESSOR SYSTEM OPTIMIZATION SUPPORTING APPARATUS AND SUPPORTING METHOD
5595577	FMA13-00343JP DIV	Japan	03/20/2007	08/15/2014	PROCESSOR SYSTEM OPTIMIZATION SUPPORTING APPARATUS AND SUPPORTING METHOD
5413969	FMA13-00343US CON	Japan	03/20/2007	11/22/2013	PROCESSOR SYSTEM OPTIMIZATION SUPPORTING APPARATUS AND SUPPORTING METHOD
3838180	FMA13-00344EP	Japan	09/12/2002	08/11/2006	A CLOCK GENERATING CIRCUIT AND THE CLOCK PRODUCTION
4198722	FMA13-00344JP	Japan	05/24/2006	10/10/2008	THE CLOCK GENERATING CIRCUIT, PLL AND THE CLOCK PRODUCTION
4836844	FMA13-00345JP	Japan	03/22/2007	10/07/2011	RESET CIRCUIT AND SYSTEM
4888272	FMA13-00346EP	Japan	07/30/2007	12/22/2011	SIMULATION OF PROGRAM EXECUTION TO DETECT PROBLEM SUCH AS DEADLOCK
5029055	FMA13-00347JP	Japan	02/16/2007	07/06/2012	A detection circuit and a power source system
5411415	FMA13-00348EP	Japan	08/16/2007	11/15/2013	Temperature characteristic correction circuit
5425257	FMA13-00348JP DIV	Japan	04/16/2012	12/06/2013	Temperature characteristic correction circuit
5034703	FMA13-00349JP	Japan	06/15/2007	07/13/2012	The error generation method and CAN communication apparatus of CAN
3560696	FMA13-0034JP	Japan	07/10/1995	06/04/2004	PLL CIRCUIT
5029056	FMA13-00350JP	Japan	02/16/2007	07/06/2012	A detection circuit and a power source system
4909144	FMA13-00351JP	Japan	03/22/2007	01/20/2012	IMAGE RECOGNITION DEVICE AND IMAGE ROTATING METHOD
5056852	FMA13-00352US	Japan	09/04/2007	08/10/2012	CHARGING CIRCUIT
4781471	FMA13-00353EP	Japan	11/02/2007	07/15/2011	A signal processing apparatus and a communication apparatus
5266705	FMA13-00354JP	Japan	10/01/2007	05/17/2013	COMMUNICATION SYSTEM
5459937	FMA13-00355JP	Japan	04/19/2007	01/24/2014	INTEGRATED CIRCUIT AND AUDIO APPARATUS
2012-088276	FMA13-00357JP DIV	Japan	06/15/2007	04/09/2009	STEP-UP/STEP-DOWN TYPE DC-DC CONVERTER, AND CONTROL CIRCUIT AND CONTROL METHOD OF THE SAME
5023819	FMA13-00357US	Japan	06/16/2006	06/29/2012	The control method of a buck-boost DC-DC converter, the control circuit of a buck-boost DC-DC converter, and a buck-boost DC-DC converter
5163332	FMA13-00358JP	Japan	07/15/2008	12/28/2012	PROGRAM, DESIGN APPARATUS, AND DESIGN METHOD FOR DYNAMIC RECONFIG ...
5040421	FMA13-00359JP	Japan	05/07/2007	07/20/2012	CONSTANT VOLTAGE CIRCUIT, CONSTANT VOLTAGE SUPPLY SYSTEM AND CONSTANT VOLTAGE SUPPLY METHOD
3699517	FMA13-0035JP	Japan	01/16/1996	07/15/2005	SEMICONDUCTOR SWITCHING CONTROL CIRCUIT
5411959	FMA13-00360JP	Japan	03/30/2012	11/15/2013	DC-DC CONVERTER AND CONTROL METHOD THEREOF
5029156	FMA13-00360US	Japan	06/11/2007	07/06/2012	A DC-DC converter and its control method

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5067111	FMA13-00361JP	Japan	10/18/2007	08/24/2012	SEMICONDUCTOR INTEGRATED CIRCUIT AND DEBUG MODE DETERMINATION METHOD
5050786	FMA13-00362JP	Japan	11/05/2007	08/03/2012	A drawing processing apparatus, a drawing processing method, and a drawing processing program
5194804	FMA13-00363JP	Japan	01/08/2008	02/15/2013	SEMICONDUCTOR INTEGRATED CIRCUIT
5115307	FMA13-00364JP	Japan	04/25/2008	10/26/2012	SEMICONDUCTOR INTEGRATED CIRCUIT
5320817	FMA13-00365JP	Japan	05/23/2008	07/26/2013	METHOD AND DEVICE FOR TRANSMITTING PACKETS
5211678	FMA13-00366JP	Japan	12/26/2007	03/08/2013	DC-DC CONVERTER, DC-DC CONVERTER CONTROL METHOD, AND ELECTRONIC DEVICE
5176646	FMA13-00367JP	Japan	03/28/2008	01/18/2013	An error correction function checking circuit, the error correction function confirmation method and its computer program, and a memory
2007-289876	FMA13-00368US	Japan	11/07/2007		LINEAR REGULATOR CIRCUIT, LINEAR REGULATION METHOD, AND SEMICONDUCTOR DEVICE
5262158	FMA13-00369US DIV	Japan	02/13/2008	05/10/2013	THE SYNCHRONOUS LOSS-PREVENTION METHOD AND A SYNCHRONOUS LOSS-PREVENTION APPARATUS
3643421	FMA13-0036US	Japan	01/29/1996	02/04/2005	OUTPUT CIRCUIT
4968121	FMA13-00370JP	Japan	03/10/2008	04/13/2012	CAPACITANCE SENSOR FOR DETECTING A CHARGE VOLTAGE OF A MULTI-CAPACITOR CIRCUIT
5146009	FMA13-00371JP	Japan	02/28/2008	12/07/2012	POWER SUPPLY CONTROL DEVICE AND POWER SUPPLY CONTROL METHOD
5286944	FMA13-00372JP	Japan	05/30/2008	06/14/2013	PACKET COMMUNICATION DEVICE FOR COMMUNICATING PACKET TO BE ...
5509357	FMA13-00372JP DIV	Japan	02/12/2013	03/28/2014	RECEIVING DEVICE AND PACKET COMMUNICATION METHOD
2014-059645	FMA13-00372JP DIV2	Japan	05/30/2008		TRANSMISSION APPARATUS AND PACKET COMMUNICATION METHOD
5082908	FMA13-00373JP	Japan	02/13/2008	09/14/2012	POWER SUPPLY CIRCUIT, OVERCURRENT PROTECTION CIRCUIT FOR THE SAME, AND ELECTRONIC DEVICE
5018570	FMA13-00374JP	Japan	03/10/2008	06/22/2012	A linear correction circuit and a sensor apparatus
4998386	FMA13-00375JP	Japan	06/27/2008	05/25/2012	LINE PLOTTING METHOD
5251594	FMA13-00376JP	Japan	02/26/2009	04/26/2013	POWER SUPPLY CONTROL APPARATUS/METHOD
5141393	FMA13-00377JP	Japan	06/23/2008	11/30/2012	IMPROVEMENT CONVERTING CIRCUIT
2000-078132	FMA13-00378JP	Japan	03/20/2000		SEMICONDUCTOR MEMORY
4568299	FMA13-00378JP DIV	Japan	03/23/2007	08/13/2010	SEMICONDUCTOR MEMORY DEVICE
4485546	FMA13-00379JP	Japan	06/18/2007	04/02/2010	SEMICONDUCTOR INTEGRATED CIRCUIT
2007-160029	FMA13-00379JP DIV	Japan	10/27/2003		SEMICONDUCTOR INTEGRATED CIRCUIT
2003-366085	FMA13-00379US	Japan	10/27/2003		SEMICONDUCTOR INTEGRATED CIRCUIT
3765856	FMA13-0037JP	Japan	12/20/1995	02/03/2006	CURRENT-VOLTAGE CONVERSION CIRCUIT AND PHOTOELECTRONIC CONVERSION DEVICE
4668957	FMA13-00380JP	Japan	04/15/2002	01/21/2011	CHARGE-DISCHARGE CONTROL METHOD AND ELECTRONIC APPARATUS
4846755	FMA13-00380JP DIV	Japan	04/21/2008	10/21/2011	SIGNAL DETECTION APPARATUS, SIGNAL DETECTION METHOD, SIGNAL TRANSMISSION SYSTEM, AND COMPUTER READABLE PROGRAM TO EXECUTE SIGNAL TRANSMISSION
2010-087014	FMA13-00380JP DIV1	Japan	04/05/2010		POWER SUPPLY CONTROL METHOD
4137496	FMA13-00380US	Japan	04/15/2002	06/13/2008	METHOD FOR PREDICTING REMAINING CHARGE OF PORTABLE ELECTRONICS BATTERY
4808195	FMA13-00381JP	Japan	08/09/2007	08/26/2011	OPERATION AMPLIFIER, LINE DRIVER, AND LIQUID CRYSTAL DISPLAY DEVICE
4068040	FMA13-00381US DIV2	Japan	10/10/2003	01/18/2008	OPERATION AMPLIFIER, LINE DRIVER, AND LIQUID CRYSTAL DISPLAY DEVICE
3873062	FMA13-00382JP	Japan	04/09/2004	10/27/2006	A SELECTING CIRCUIT AND A SEMICONDUCTOR DEVICE PROVIDED WITH THE SAME, A D/A-CONVERSION CIRCUIT, AND A LIQUID CRYSTAL DISPLAY
4669501	FMA13-00382JP DIV	Japan	09/20/2007	01/21/2011	SEMICONDUCTOR DEVICE HAVING SELECTING CIRCUIT, D/A CONVERTER ...
2004-280500	FMA13-00382JP DIV	Japan	11/20/1998		SEMICONDUCTOR DEVICE
10-330507	FMA13-00382US	Japan	11/20/1998		SELECTION CIRCUIT, SEMICONDUCTOR DEVICE PROVIDED WITH IT, D/A CONVERTER AND LIQUID CRYSTAL DISPLAY DEVICE
9-324515	FMA13-00383JP	Japan	11/26/1997		OUTPUT CIRCUIT USING DIFFERENTIAL AMPLIFIER CIRCUIT
4713560	FMA13-00383JP DIV	Japan	10/29/2007	04/01/2011	DIFFERENTIAL AMPLIFIER CIRCUIT
5461025	FMA13-00385JP	Japan	02/17/2009	01/24/2014	METHOD FOR CONTROLLING DC-DC CONVERTER, CIRCUIT FOR CONTROLLING DC-DC CONVERTER AND DC-DC CONVERTER
5092997	FMA13-00386JP	Japan	08/27/2008	09/28/2012	DC-DC CONVERTER AND POWER SUPPLY FOR SYSTEM
5627856	FMA13-00387JP	Japan	01/26/2009	10/10/2014	POWER SUPPLY CONTROLLING CIRCUIT, POWER SUPPLY CONTROLLING METHOD AND ELECTRONIC DEVICE
5168082	FMA13-00388JP	Japan	10/24/2008	01/11/2013	STEP-UP/STEP-DOWN TYPE DC-DC CONVERTER, AND CONTROL CIRCUIT ...
5277913	FMA13-00389US CON	Japan	11/28/2008	05/31/2013	THE CONTROL CIRCUIT OF A DC-DC CONVERTER AND A DC-DC CONTROLLER
3920371	FMA13-0038US	Japan	01/29/1996	02/23/2007	A CHARGER, AN ELECTRIC-CURRENT DETECTION CIRCUIT, AND A VOLTAGE DETECTION CIRCUIT
5083117	FMA13-00390JP	Japan	08/20/2008	09/14/2012	DC-DC CONVERTER AND CONTROL CIRCUIT FOR DC-DC CONVERTER
5287185	FMA13-00391JP	Japan	12/01/2008	06/14/2013	STEP-UP/STEP-DOWN POWER SUPPLY CONTROL DEVICE, AND METHOD FOR ...
5223497	FMA13-00392JP	Japan	06/27/2008	03/22/2013	PEAK HOLD CIRCUIT
5125605	FMA13-00393JP	Japan	02/27/2008	11/09/2012	INTEGRATED CIRCUIT DEVICE HAVING RESET CONTROL
5272719	FMA13-00394JP	Japan	12/24/2008	05/24/2013	DATA TRANSFER APPARATUS AND DATA TRANSFER METHOD
5245653	FMA13-00395JP	Japan	09/01/2008	04/19/2013	SEMICONDUCTOR INTEGRATED CIRCUIT DEVICE
5125786	FMA13-00396JP	Japan	06/12/2008	11/09/2012	INFORMATION PROCESSING SYSTEM
5163307	FMA13-00397JP	Japan	06/20/2008	12/28/2012	POWER-ON DETECTION CIRCUIT AND MICROCONTROLLER

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5251455	FMA13-00398JP	Japan	11/27/2008	04/26/2013	CONTROL CIRCUIT FOR DC-DC CONVERTER
2008-276747	FMA13-00399JP	Japan	10/28/2008		FILTERING CIRCUIT AND METHOD FOR ITS ADJUSTMENT
3765868	FMA13-0039JP	Japan	03/25/1996	02/03/2006	PLL FREQUENCY SYNTHESIZER
5486222	FMA13-00400JP	Japan	06/25/2009	02/28/2014	A semiconductor integrated circuit and a power supply device
5304173	FMA13-00401JP	Japan	10/27/2008	07/05/2013	POWER SUPPLY VOLTAGE CONTROL CIRCUIT, POWER SUPPLY VOLTAGE CONTROL METHOD AND DC-DC CONVERTER
2013-100145	FMA13-00401JP DIV	Japan	10/27/2008		POWER SUPPLY VOLTAGE CONTROL CIRCUIT AND POWER SUPPLY VOLTAGE CONTROL METHOD
5340721	FMA13-00402JP	Japan	12/26/2008	08/16/2013	POWER SUPPLY DEVICE
5115347	FMA13-00402US CON	Japan	06/12/2008	10/26/2012	CONTROL CIRCUIT OF DC-DC CONVERTER, DC-DC CONVERTER AND CONTROL METHOD OF DC-DC CONVERTER
5451094	FMA13-00403US	Japan	02/02/2009	01/10/2014	A charging circuit, a charging device, an electronic device, and the charge method
5239633	FMA13-00404JP	Japan	08/27/2008	04/12/2013	VEHICLE-MOUNTED IMAGE DATA TRANSFER APPARATUS
5056644	FMA13-00405JP	Japan	07/18/2008	08/10/2012	DATA CONVERSION APPARATUS, METHOD, AND COMPUTER- READABLE RECORDING MEDIUM ...
5136328	FMA13-00406JP	Japan	09/26/2008	11/22/2012	MEMORY, MEMORY OPERATING METHOD, AND MEMORY SYSTEM
5272692	FMA13-00407JP	Japan	12/08/2008	05/24/2013	SEMICONDUCTOR INTEGRATED CIRCUIT AND POWER SUPPLY DEVICE
5115628	FMA13-00408JP	Japan	11/13/2008	10/26/2012	MICROCOMPUTER
5126010	FMA13-00409JP	Japan	11/14/2008	11/09/2012	MEMORY ACCESS CONTROL CIRCUIT AND IMAGE PROCESSING SYSTEM
3799050	FMA13-0040JP	Japan	03/31/2005	04/28/2006	THE CACHE MEMORY APPARATUS AND METHOD WHICH STORES THE HIERARCHIZED MEMORY ITEM AND CASH
3709235	FMA13-0040US	Japan	03/14/1996	08/12/2005	THE CACHE MEMORY APPARATUS AND METHOD WHICH STORES THE HIERARCHIZED MEMORY ITEM AND CASH
5239647	FMA13-00410JP	Japan	09/01/2008	04/12/2013	A verification assistance program, a verification assistance apparatus, and a verification assistance method
5315981	FMA13-00411JP	Japan	12/24/2008	07/19/2013	CURRENT PRODUCING CIRCUIT, CURRENT PRODUCING METHOD, AND ELECTRONIC DEVICE
5315982	FMA13-00412JP	Japan	12/24/2008	07/19/2013	CONTROL CIRCUIT OF DC-DC CONVERTER, DC-DC CONVERTER AND ELECTRONIC DEVICE
2008-3263323	FMA13-00413JP	Japan	12/22/2008		CONTROL METHOD OF NETWORK AND INTERFACE APPARATUS
5287291	FMA13-00414JP	Japan	01/26/2009	06/14/2013	SUCCESSIVE APPROXIMATION A/D CONVERTER
5347761	FMA13-00415JP	Japan	06/29/2009	08/30/2013	A NETWORK CONTROL METHOD AND INTERFACE APPARATUS
5326551	FMA13-00416JP DIV	Japan	12/23/2008	08/02/2013	POWER SUPPLY APPARATUS AND POWER SUPPLY METHOD
5376512	FMA13-00417JP	Japan	05/21/2009	10/04/2013	POWER SUPPLY DEVICE
5366127	FMA13-00417US	Japan	11/28/2008	09/20/2013	ANALOG INTEGRATED CIRCUIT (AS AMENDED)
5370991	FMA13-00418JP	Japan	01/23/2009	09/27/2013	COMMUNICATION APPARATUS AND COMMUNICATION SYSTEM
5370989	FMA13-00418US	Japan	12/18/2008	09/27/2013	COMMUNICATION APPARATUS, DATA COMMUNICATION METHOD, AND NETWORK SYSTEM
5251541	FMA13-00419JP	Japan	01/26/2009	04/26/2013	CONSTANT-VOLTAGE GENERATION CIRCUIT AND REGULATOR CIRCUIT
3625572	FMA13-0041US	Japan	05/21/1996	12/10/2004	AN OSCILLATION CIRCUIT AND A PLL CIRCUIT USING THE SAME
5376509	FMA13-00420US CON	Japan	03/16/2009	10/04/2013	The run history trace method
5553479	FMA13-00421JP	Japan	02/18/2008	06/06/2014	SEMICONDUCTOR DEVICE AND ITS MANUFACTURING METHOD THEREOF
5400443	FMA13-00421US CON	Japan	03/25/2009	11/01/2013	INTEGRATED CIRCUIT, DEBUGGING CIRCUIT, AND DEBUGGING COMMAND CONTROL METHOD
5431003	FMA13-00422US	Japan	04/03/2009	12/13/2013	A reconfigurable circuit and a reconfigurable circuit system
5599987	FMA13-00423US	Japan	06/12/2009	08/22/2014	AUXILIARY PE FOR MULTIPLEXING AND SEMICONDUCTOR INTEGRATED CIRCUIT
5169773	FMA13-00424JP	Japan	11/27/2008	01/11/2013	SEMICONDUCTOR MEMORY AND METHOD AND SYSTEM FOR ACTUATING ...
5098984	FMA13-00425US	Japan	12/10/2008	10/05/2012	INTERFACE APPARATUS AND RESYNCHRONIZATION METHOD
5198316	FMA13-00426JP	Japan	02/19/2009	02/15/2013	PLL CIRCUIT AND OSCILLATION DEVICE
5115472	FMA13-00427JP	Japan	12/26/2008	10/26/2012	ASK DEMODULATION CIRCUIT
5239912	FMA13-00428JP	Japan	01/30/2009	04/12/2013	SQUARE CIRCUIT
5310078	FMA13-00429JP	Japan	02/23/2009	07/12/2013	IMAGE DEPICTION APPARATUS
3647147	FMA13-0042FR DIV	Japan	06/28/1996	02/18/2005	AN OSCILLATION CIRCUIT AND A PLL CIRCUIT USING THE SAME
2009-113914	FMA13-00430JP	Japan	05/08/2009		CLOCK GENERATING CIRCUIT, POWER SUPPLY SYSTEM AND CLOCK SIGNAL FREQUENCY CHANGING METHOD
5310079	FMA13-00431JP	Japan	02/24/2009	07/12/2013	IMAGE DEPICTION APPARATUS
5399734	FMA13-00432CN	Japan	09/30/2008	11/01/2013	OUTPUT-VOLTAGE CONTROL APPARATUS, OUTPUT-VOLTAGE CONTROL METHOD, AND ELECTRONIC EQUIPMENT
2013-221507	FMA13-00432JP DIV	Japan	02/18/2009		OUTPUT-VOLTAGE CONTROL APPARATUS, OUTPUT-VOLTAGE CONTROL METHOD, AND ELECTRONIC EQUIPMENT
5395562	FMA13-00432JP DIV2	Japan	08/06/2009	10/25/2013	SLAVE CONTROL APPARATUS, COMMUNICATION CONTROL SYTEM AND COMMUNICATION CONTROL METHOD
5206594	FMA13-00433US DIV	Japan	06/05/2009	03/01/2013	A voltage adjustment circuit and a display apparatus drive circuit
5359610	FMA13-00434US	Japan	06/29/2009	09/13/2013	A transmitting/receiving apparatus and a power wire communication method
5519195	FMA13-00435US	Japan	06/19/2009	04/11/2014	A timing controller, a timing control method, and a timing control system
5347748	FMA13-00436US	Japan	06/18/2009	08/30/2013	The control method of a DC/DC converter and a DC/DC converter
5553540	FMA13-00437JP	Japan	06/24/2009	06/06/2014	DRIVER CIRCUIT AND CONTROL CIRCUIT
2013-226606	FMA13-00438JP	Japan	05/08/2009		POWER SUPPLY DEVICE, CONTROL CIRCUIT, AND METHOD OF CONTROLLING POWER SUPPLY DEVICE
5566626	FMA13-00438JP DIV	Japan	05/19/2009	06/27/2014	The network connection method and interface apparatus
5405891	FMA13-00438US	Japan	05/08/2009	11/08/2013	POWER SUPPLY DEVICE, CONTROL CIRCUIT, AND METHOD OF CONTROLLING POWER SUPPLY DEVICE

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5332675	FMA13-00439JP DIV	Japan	02/06/2009	08/09/2013	ELECTRONIC DEVICE, DETECTION CIRCUIT AND VOLTAGE CONTROL METHOD
3291198	FMA13-0043EP	Japan	05/08/1996	03/22/2002	SEMICONDUCTOR INTEGRATED CIRCUIT
3601711	FMA13-0043JP	Japan	05/08/1996	10/01/2004	SEMICONDUCTOR INTEGRATED CIRCUIT
5634028	FMA13-00440US	Japan	03/05/2009	10/24/2014	DC-DC CONVERTER CONTROL CIRCUIT, DC-DC CONVERTER, AND METHOD FOR CONTROLLING A DC-DC CONVERTER
5451205	FMA13-00441JP	Japan	06/23/2009	01/10/2014	SEMICONDUCTOR DEVICE
5529450	FMA13-00442US	Japan	07/15/2009	04/25/2014	A body bias control circuit and a body bias control method
5466026	FMA13-00443JP	Japan	01/27/2010	01/31/2014	THE CONTROL METHOD OF A PHASE LOCKED LOOP CIRCUIT AND A PHASE LOCKED LOOP CIRCUIT
5486221	FMA13-00443US	Japan	06/23/2009	02/28/2014	CONTROL CIRCUIT FOR DC-DC CONVERTERS, DC-DC CONVERTER, AND ELECTRONIC DEVICE
2009-069184	FMA13-00445JP DIV	Japan	06/09/2008		DC-DC CONVERTER CONTROL CIRCUIT AND DC-DC CONVERTER CONTROL METHOD
2009-151161	FMA13-00446US	Japan	06/25/2009		COMPUTER SYSTEM INCLUDING RECONFIGURABLE ARITHMETIC DEVICE, AND RECONFIGURABLE ARITHMETIC DEVICE
4146006	FMA13-00448EP	Japan	09/28/1998	06/27/2008	THE ELECTRONIC DEVICE WHICH HAS FLASH MEMORY
4421659	FMA13-00448JP	Japan	05/26/2008	12/11/2009	ELECTRONIC APPARATUS HAVING FLASH MEMORY
4741632	FMA13-00449JP	Japan	04/27/2001	05/13/2011	SEMICONDUCTOR INTEGRATED CIRCUIT DEVICE
2001-133036	FMA13-00449US	Japan	04/27/2001		SEMICONDUCTOR INTEGRATED CIRCUIT DEVICE
3653892	FMA13-0044US	Japan	11/21/1996	03/11/2005	FRACTIONAL N-FREQUENCY SYNTHESIZER
5012731	FMA13-00450JP	Japan	08/18/2008	06/15/2012	THE ADJUSTMENT METHOD OF A SEMICONDUCTOR INTEGRATED CIRCUIT DEVICE AND A SEMICONDUCTOR INTEGRATED CIRCUIT DEVICE
2003-192151	FMA13-00450US CON	Japan	08/28/2002		SEMICONDUCTOR INTEGRATED CIRCUIT DEVICE AND METHOD OF ADJUSTING SEMICONDUCTOR INTEGRATED CIRCUIT DEVICE
5316148	FMA13-00453JP	Japan	03/24/2009	07/19/2013	Information processing apparatus and a data recovery method
5240015	FMA13-00454JP	Japan	04/01/2009	04/12/2013	VIDEO DATA COMMUNICATION SYSTEM
5528733	FMA13-00455JP	Japan	07/08/2009	04/25/2014	DRIVER CIRCUIT AND ADJUSTMENT METHOD THEREFOR
5686913	FMA13-00455JP DIV	Japan	07/08/2009	01/30/2015	DRIVER CIRCUIT AND ADJUSTMENT METHOD THEREFOR
5438378	FMA13-00456JP	Japan	05/20/2009	12/20/2013	COMMUNICATION APPARATUS, SEMICONDUCTOR DEVICE AND COMMUNICATION SYSTEM
5451123	FMA13-00459JP	Japan	03/17/2009	01/10/2014	POWER SUPPLY APPARATUS, POWER CONTROL APPARATUS AND CONTROL METHOD OF POWER SUPPLY
3699536	FMA13-0045JP	Japan	07/02/1996	07/15/2005	A data transmission apparatus and the data-transmission method
5376516	FMA13-00462JP	Japan	07/27/2009	10/04/2013	SEMICONDUCTOR DEVICE
2009-293178	FMA13-00463JP	Japan	12/24/2009		OSCILLATING APPARATUS
2010-047339	FMA13-00465JP	Japan	03/04/2010		ANALYSIS SYSTEM AND SEMICONDUCTOR DEVICE
5442380	FMA13-00465US	Japan	09/29/2009	12/27/2013	A STEP-UP CIRCUIT AND A SEMICONDUCTOR MEMORY
5316299	FMA13-00466JP	Japan	08/07/2009	07/19/2013	SEMICONDUCTOR MEMORY, SYSTEM, AND METHOD OF CONTROLLING ...
5353548	FMA13-00467JP	Japan	08/14/2009	09/06/2013	BAND GAP REFERENCE CIRCUIT
5359810	FMA13-00467JP	Japan	11/19/2009	09/13/2013	SEMICONDUCTOR DEVICE AND RADIO COMMUNICATION APPARATUS
5304505	FMA13-00468JP	Japan	07/21/2009	07/05/2013	SEMICONDUCTOR INTEGRATED CIRCUIT
5576078	FMA13-00469JP	Japan	09/10/2009	07/11/2014	DC-DC-CONVERTER CONTROL CIRCUIT
3237554	FMA13-0046JP	Japan	12/27/1996	10/05/2001	Conversational mode debugging apparatus
2009-176644	FMA13-00470JP	Japan	07/29/2009		DC-DC CONVERTER, CONTROL CIRCUIT AND POWER SUPPLY VOLTAGE CONTROL METHOD
2009-174625	FMA13-00471CN	Japan	07/27/2009		OUTPUT VOLTAGE CONTROLLER, ELECTRONIC DEVICE, AND OUTPUT VOLTAGE CONTROL METHOD
5400167	FMA13-00472GB	Japan	11/11/2008	11/01/2013	The method to detect the operating state of an electric stepper motor
5321343	FMA13-00473JP	Japan	08/13/2009	07/26/2013	CONNECTER DETECTION CIRCUIT
5427663	FMA13-00474JP	Japan	03/24/2010	12/06/2013	ANALOG-TO-DIGITAL CONVERTER
5623618	FMA13-00474JP DIV	Japan	03/24/2010	10/03/2014	ANALOG-TO-DIGITAL CONVERTER
2010-036110	FMA13-00476JP	Japan	02/22/2010		SEMICONDUCTOR MEMORY AND SYSTEM
5607963	FMA13-00477US	Japan	03/19/2010	09/05/2014	REFERENCE VOLTAGE CIRCUIT AND SEMICONDUCTOR INTEGRATED CIRCUIT
5553927	FMA13-00478JP	Japan	07/19/2009	06/06/2014	SEMICONDUCTOR DEVICE AND WIRELESS COMMUNICATION APPARATUS
5590934	FMA13-00479JP	Japan	03/24/2010	08/08/2014	CONTROL CIRCUIT FOR SWITCHING POWER SUPPLY AND ELECTRONIC DEVICE
3596172	FMA13-0047JP	Japan	06/19/1996	09/17/2004	PLL FREQUENCY SYNTHESIZER
5484037	FMA13-00480US	Japan	12/24/2009	02/28/2014	DATA TRANSMISSION METHOD, DATA TRANSMITTING APPARATUS, AND NETWORK SYSTEM
5537192	FMA13-00481US	Japan	03/04/2010	05/09/2014	RECEIVING APPARATUS AND METHOD FOR SETTING GAIN
5711889	FMA13-00482US	Japan	01/27/2010	03/13/2015	RECONFIGURABLE CIRCUIT AND SEMICONDUCTOR INTEGRATED CIRCUIT
5632651	FMA13-00483US	Japan	05/19/2010	10/17/2014	SEMICONDUCTOR CIRCUIT AND DESIGNING DEVICE
2011-005018	FMA13-00485JP	Japan	01/13/2011		DESIGN SUPPORT DEVICE AND DESIGN SUPPORT METHOD
5507980	FMA13-00486US	Japan	11/27/2009	03/28/2014	THE CONTROL CIRCUIT OF A SWITCHED-MODE POWER SUPPLY, AN ELECTRONIC DEVICE, AND THE CONTROL METHOD OF A SWITCHED-MODE POWER SUPPLY
2014-106692	FMA13-00487JP	Japan	04/01/2010		SYSTEM AND METHOD FOR TRANSFERRING DATA
2010-085270	FMA13-00487JP DIV	Japan	04/01/2010		APPARATUS AND METHOD FOR TRANSFERRING DATA
2010-044211	FMA13-00488JP	Japan	03/01/2010		PLL CIRCUIT
5438567	FMA13-00489JP	Japan	03/19/2010	12/20/2013	OSCILLATOR CIRCUIT
3560438	FMA13-0048US	Japan	03/14/1997	06/04/2004	A STEP-UP CIRCUIT AND A STEP-DOWN CIRCUIT
5501074	FMA13-00490JP	Japan	04/01/2010	03/20/2014	RECONFIGURABLE CIRCUIT, AND METHOD OF DRIVING THE SAME
5645466	FMA13-00492JP	Japan	05/07/2010	11/14/2014	The control circuit and electronic device of a power supply
5456495	FMA13-00493US	Japan	01/19/2010	01/17/2014	CONTROL CIRCUIT AND METHOD FOR SWITCHING SUPPLY AND SWITCHING SUPPLY

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2010-127653	FMA13-00494US CON	Japan	06/03/2010		SEMICONDUCTOR INTEGRATED CIRCUIT, METHOD OF SEMICONDUCTOR CIRCUIT OPERATION AND DEBUG SYSTEM
2010-105879	FMA13-00495JP	Japan	04/30/2010		POWER SOURCE CIRCUIT
2014-137695	FMA13-00496JP	Japan	03/31/2010		SEMICONDUCTOR INTEGRATED CIRCUIT DEVICE
5456457	FMA13-00496JP DIV	Japan	12/24/2009	01/17/2014	A PROGRAM DEVELOPMENT SUPPORT APPARATUS AND A PROGRAM DEVELOPMENT ASSISTANCE METHOD
2010-081152	FMA13-00496US	Japan	03/31/2010		SEMICONDUCTOR INTEGRATED CIRCUIT DEVICE
5045692	FMA13-00497JP DIV	Japan	02/06/2009	07/27/2012	OPERATION MODE CONTROL CIRCUIT AND A MICROCOMPUTER
4294503	FMA13-00497US	Japan	01/26/2004	04/17/2009	A MICROCOMPUTER INCLUDING AN OPERATION MODE CONTROL CIRCUIT AND AN OPERATION MODE CONTROL CIRCUIT AND THE CONTROL SYSTEM USING THE MICROCOMPUTER
5003740	FMA13-00498JP	Japan	10/02/2009	06/01/2012	DETECTION CIRCUIT
4455201	FMA13-00498US DIV	Japan	07/20/2004	02/12/2010	DETECTION CIRCUIT
4924701	FMA13-00499JP	Japan	11/17/2004	02/17/2012	RESET CONTROL CIRCUIT AND RESET CONTROL METHOD
4437541	FMA13-00499US	Japan	11/17/2004	01/15/2010	RESET CONTROL CIRCUIT AND RESET CONTROL METHOD
3687217	FMA13-0049JP	Japan	09/17/1996	06/17/2005	SEMICONDUCTOR DEVICE
5539776	FMA13-00500JP	Japan	03/31/2010	05/09/2014	SEMICONDUCTOR INTEGRATED CIRCUIT
5520098	FMA13-00501US	Japan	03/24/2010	04/11/2014	DATA-PROCESSING METHOD, PROGRAM, AND SYSTEM
2010-096089	FMA13-00502US CON	Japan	04/19/2010		DATA WRITING METHOD AND SYSTEM
5343916	FMA13-00503GB	Japan	04/16/2010	08/23/2013	SEMICONDUCTOR MEMORY
5519837	FMA13-00503JP	Japan	06/27/2013	04/11/2014	SEMICONDUCTOR MEMORY
5542234	FMA13-00503JP DIV	Japan	06/27/2013	05/16/2014	SEMICONDUCTOR MEMORY
2014-095405	FMA13-00503JP DIV1	Japan	04/16/2010		SEMICONDUCTOR MEMORY
5437174	FMA13-00504JP	Japan	06/16/2010	12/20/2013	LED DRIVING CIRCUIT, AND SEMICONDUCTOR DEVICE
5629219	FMA13-00505US	Japan	01/13/2011	10/10/2014	COMMUNICATION DEVICE, COMMUNICATION SYSTEM, AND COMMUNICATION METHOD
5620718	FMA13-00506JP	Japan	06/07/2010	09/26/2014	INTEGRATED CIRCUIT DEVICE WITH VOLTAGE REGULATOR
2014-191979	FMA13-00506JP Div	Japan	06/07/2010		INTEGRATED CIRCUIT DEVICE WITH VOLTAGE REGULATOR
2010-094293	FMA13-00507JP	Japan	04/15/2010		CONTROL CIRCUIT AND CONTROL METHOD OF SWITCHING POWER SOURCE
5662119	FMA13-00508EP	Japan	11/29/2010	12/12/2014	A node system and the monitoring node
5567389	FMA13-00509JP	Japan	05/17/2010	06/27/2014	CLOCK GENERATION CIRCUIT
3851404	FMA13-0050JP	Japan	03/13/1997	09/08/2006	DIFFERENTIAL AMPLIFIER CIRCUIT
5636235	FMA13-00510JP DIV	Japan	09/21/2010	10/24/2014	DC-DC CONVERTER
5451541	FMA13-00511CN	Japan	06/28/2010	01/10/2014	OSCILLATION CIRCUIT
2011-037832	FMA13-00512JP	Japan	02/24/2011		PLL
5511594	FMA13-00514JP	Japan	08/31/2010	04/04/2014	OUTPUT SWITCHING CIRCUIT
5676961	FMA13-00515US	Japan	07/30/2010	01/09/2015	CONTROL CIRCUIT OF POWER SOURCE, ELECTRONIC APPARATUS, AND CONTROL METHOD OF POWER SOURCE
2010-233213	FMA13-00516CN	Japan	10/18/2010		SWITCHING REGULATOR
2010-197530	FMA13-00517CN	Japan	09/03/2010		SWITCHING REGULATOR
2011-011243	FMA13-00518CN	Japan	01/21/2011		SEMICONDUCTOR DEVICE
5634236	FMA13-00519CN	Japan	11/30/2010	10/24/2014	LEVEL SHIFT CIRCUIT AND SEMICONDUCTOR DEVICE
5551958	FMA13-00519JP	Japan	04/01/2010	05/30/2014	SYSTEM AND METHOD FOR TRANSFERRING DATA
3705880	FMA13-0051EP	Japan	11/28/1996	08/05/2005	LEVEL CONVERTER AND SEMICONDUCTOR DEVICE
5702573	FMA13-00520US	Japan	10/20/2010	02/27/2015	NONVOLATILE SEMICONDUCTOR MEMORY DEVICE AND DATA WRITING METHOD THEREOF
2011-028878	FMA13-00521JP	Japan	02/14/2011		ELECTRONIC DEVICE, CONTROL CIRCUIT AND METHOD FOR CONTROLLING LIGHT-EMITTING ELEMENT
2010-254099	FMA13-00522JP	Japan	11/12/2010		SEMICONDUCTOR DEVICE AND METHOD FOR RESET CONTROL OF THE SAME
5618805	FMA13-00523US CON	Japan	12/10/2010	09/26/2014	COMMUNICATION DEVICE, NETWORK SYSTEM, AND COMMUNICATION METHOD
2011-036712	FMA13-00524JP	Japan	02/23/2011		REFERENCE VOLTAGE CIRCUIT AND SEMICONDUCTOR INTEGRATED CIRCUIT
2011-042267	FMA13-00525JP	Japan	02/28/2011		MOTOR CONTROL APPARATUS, PROGRAM FOR MANUFACTURING MOTOR CONTROL APPARATUS, AND METHOD FOR MANUFACTURING MOTOR CONTROL APPARATUS
2011-037678	FMA13-00526JP	Japan	02/23/2011		CONTROL CIRCUIT, ELECTRONIC DEVICE, AND METHOD FOR CONTROLLING POWER SUPPLY
2011-148214	FMA13-00527JP	Japan	07/04/2011		MICROCOMPUTER
2011-122815	FMA13-00528CN	Japan	05/31/2011		POWER SUPPLY DEVICE, CONTROL CIRCUIT, ELECTRONIC DEVICE AND CONTROL METHOD FOR POWER SUPPLY
2011-191481	FMA13-00529CN	Japan	09/02/2011		ANALOG-TO-DIGITAL CONVERTER
3711691	FMA13-0052JP	Japan	04/11/1997	08/26/2005	MICROCONTROLLER
2011-142061	FMA13-00530JP	Japan	06/27/2011		PROCESSOR AND METHOD FOR OPERATING THE SAME
2011-173233	FMA13-00531CN	Japan	08/08/2011		SEMICONDUCTOR DEVICE AND VOLTAGE DIVIDER
2011-180456	FMA13-00532JP	Japan	08/22/2011		PROCESSOR
4876624	FMA13-00533CN	Japan	02/22/2006	12/09/2011	POWER SOURCE CONTROL CIRCUIT, POWER SUPPLY DEVICE, AND CONTROL METHOD FOR THE SAME
5170285	FMA13-00533JP	Japan	05/27/2011	01/11/2013	POWER SUPPLY CONTROL CIRCUIT, POWER SUPPLY DEVICE ...
5360153	FMA13-00534JP	Japan	07/29/2011	09/13/2013	SURGE DETECTION CIRCUIT FOR SENSOR
5506281	FMA13-00534JP DIV	Japan	08/17/2009	03/28/2014	POWER SUPPLY CIRCUIT AND ELECTRONIC DEVICE
4893008	FMA13-00534US	Japan	02/08/2006	01/06/2012	SURGE DETECTION CIRCUIT
4463369	FMA13-00535US	Japan	02/24/2000	02/26/2010	THE CONTROL CIRCUIT OF A DC-DC CONVERTER, AND A DC-DC CONVERTER
3681624	FMA13-00536US	Japan	08/31/2000	05/27/2005	A CHARGING CIRCUIT, A CHARGING -AND- DISCHARGING CIRCUIT, AND A BATTERY PACK
4073152	FMA13-00537US CON	Japan	06/30/2000	02/01/2008	VARIABLE-GAIN AMPLIFIER

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4629192	FMA13-00538US	Japan	07/07/2000	11/19/2010	TRIMMING CIRCUIT OF SEMICONDUCTOR APPARATUS
4651832	FMA13-00539EP	Japan	03/05/2001	12/24/2010	OVERVOLTAGE-PROTECTIVE DEVICE FOR POWER SYSTEM, AC/DC CONVERTER AND DC/DC CONVERTER CONSTITUTING THE POWER SYSTEM
3937505	FMA13-0053JP	Japan	05/06/1997	04/06/2007	SEMICONDUCTOR DEVICE
4287039	FMA13-00540DE	Japan	12/19/2000	04/03/2009	SEMICONDUCTOR INTEGRATED CIRCUIT DEVICE WITH VARIABLE GAIN AMPLIFIER
4850344	FMA13-00541US	Japan	03/05/2001	10/28/2011	THE CONTROL CIRCUIT OF A DC-DC CONVERTER, AND A DC-DC CONVERTER
11-88383	FMA13-00542US	Japan	03/30/1999		RESET CIRCUIT AND PLL FREQUENCY SYNTHESIZER
3930729	FMA13-00543JP	Japan	11/30/2001	03/16/2007	SEMICONDUCTOR DEVICE AND FLAT PANEL DISPLAY DEVICE USING THE SAME, AND DATA DRIVER THEREFOR
2001-89880	FMA13-00544JP	Japan	03/27/2001		MODE SWITCHING METHOD FOR PLL CIRCUIT AND MODE CONTROL CIRCUIT FOR THE PLL CIRCUIT
4817539	FMA13-00545JP	Japan	06/19/2001	09/09/2011	A SIGNAL DETECTION APPARATUS, THE SIGNAL DETECTION METHOD, A SIGNAL-TRANSMISSION SYSTEM, AND A COMPUTER-READABLE PROGRAM
2001-185309	FMA13-00545US DIV	Japan	06/19/2001		DIFFERENTIAL SIGNAL OUTPUTTING DEVICE, SEMICONDUCTOR INTEGRATED CIRCUIT DEVICE HAVING THE DIFFERENTIAL SIGNAL OUTPUTTING DEVICE, AND DIFFERENTIAL SIGNAL TRANSMITTING SYSTEM
4091410	FMA13-00547US	Japan	12/05/2002	03/07/2008	SEMICONDUCTOR INTEGRATED CIRCUIT
4080396	FMA13-00548US	Japan	08/08/2003	02/15/2008	A DC/DC CONVERTER, A SEMICONDUCTOR DEVICE, AND ELECTRONIC DEVICE, AND A BATTERY PACK
4124768	FMA13-00549US	Japan	04/18/2003	05/16/2008	CONSTANT-VOLTAGE POWER SUPPLY CIRCUIT
3652830	FMA13-0054JP	Japan	01/31/1997	03/04/2005	DC-DC CONVERTER
2005-62660	FMA13-00550JP	Japan	03/07/2005		SEMICONDUCTOR INTEGRATED CIRCUIT AND RESET CANCELING METHOD OF THE SEMICONDUCTOR INTEGRATED CIRCUIT
3888895	FMA13-00551EP	Japan	12/21/2001	12/08/2006	A POSITIVE-AND/OR- NEGATIVE POWER-SUPPLY GENERATOR AND A SEMICONDUCTOR DEVICE
2005-369586	FMA13-00552EP	Japan	12/22/2005		ANALOG MULTIPLE STAGE AMPLIFYING CIRCUIT FOR SENSOR
4328319	FMA13-00553US	Japan	08/02/2005	06/19/2009	CLOCK SUPPLY CIRCUIT AND METHOD
4731309	FMA13-00554US	Japan	12/20/2005	04/28/2011	DC-DC CONVERTER CONTROL CIRCUIT AND DC-DC CONVERTER CONTROL METHOD
4646840	FMA13-00555US	Japan	03/22/2006	12/17/2010	PARALLEL PROCESSING APPARATUS DYNAMICALLY SWITCHING OVER CIRCUIT CONFIGURATION
4716895	FMA13-00556CN	Japan	02/22/2006	04/08/2011	DC LINEAR REGULATOR SINGLE CONTROLLER WITH PLURAL LOADS
5061593	FMA13-00557US CIP	Japan	11/21/2006	08/17/2012	CONTROL APPARATUS, SEMICONDUCTOR INTEGRATED CIRCUIT APPARATUS, AND SOURCE VOLTAGE SUPPLY CONTROL SYSTEM
2004-95696	FMA13-00558US	Japan	03/29/2004		MICROCOMPUTER WHOSE INTERNAL MEMORY CAN BE MONITORED
2005-007546	FMA13-00559US	Japan	01/14/2005		MICROCONTROLLER
3847401	FMA13-0055JP	Japan	02/26/1997	09/01/2006	SEMICONDUCTOR INTEGRATED CIRCUIT
4879043	FMA13-00560JP	Japan	02/22/2007	12/09/2011	AD CONVERTER CIRCUIT AND MICROCONTROLLER
4837408	FMA13-00561CN	Japan	03/20/2006	10/07/2011	CIRCUIT AND METHOD FOR CONTROLLING DC-DC CONVERTER
5404991	FMA13-00562CN	Japan	02/07/2006	11/08/2013	CONTROL CIRCUIT FOR DC-DC CONVERTER, DC-DC CONVERTER, AND CONTROL METHOD FOR DC-DC CONVERTER
4484839	FMA13-00563JP	Japan	03/30/2006	04/02/2010	CONTROL CIRCUIT OF POWER SUPPLY AND CONTROL METHOD OF THE POWER SUPPLY
4800808	FMA13-00564JP	Japan	03/24/2006	08/12/2011	ELECTRONIC DEVICE INCORPORATING SYSTEM POWER SUPPLY UNIT AND METHOD FOR SUPPLYING POWER SUPPLY VOLTAGE
4984777	FMA13-00565CN	Japan	09/15/2006	05/11/2012	POWER SUPPLY SYSTEM AND METHOD FOR CONTROLLING OUTPUT VOLTAGE
4887841	FMA13-00566CN	Japan	03/06/2006	12/22/2011	DC-DC CONVERTER CONTROL CIRCUIT, DC-DC CONVERTER, POWER SUPPLY UNIT, AND DC-DC CONVERTER CONTROL METHOD
4619252	FMA13-00568US	Japan	09/29/2005	11/05/2010	ENHANCED PROCESSOR ELEMENT STRUCTURE IN A RECONFIGURABLE INTEGRATED CIRCUIT DEVICE
4789662	FMA13-00569CN	Japan	03/17/2006	07/29/2011	CONTROL CIRCUIT OF POWER SUPPLY, POWER SUPPLY AND CONTROL METHOD THEREOF
3562189	FMA13-0056JP	Japan	01/16/1997	06/11/2004	CHARGE PUMP CIRCUIT
4838009	FMA13-00570EP	Japan	02/22/2006	10/07/2011	RECONFIGURABLE CIRCUIT
2006-188631	FMA13-00571JP	Japan	07/07/2006		PROGRAM ADJUSTING DEVICE AND PROGRAM ADJUSTING METHOD
5028967	FMA13-00572JP	Japan	11/15/2006	07/06/2012	METHOD FOR CONTROLLING SEMICONDUCTOR MEMORY DEVICE
4642792	FMA13-00573JP	Japan	02/16/2007	12/10/2010	POWER SUPPLY CIRCUIT, POWER SUPPLY CONTROL CIRCUIT, AND POWER SUPPLY CONTROL METHOD
2012-206381	FMA13-00574JP	Japan	09/19/2012		ADJUSTING DEVICE AND ADJUSTING METHOD
2013-109855	FMA13-00575JP	Japan	05/24/2013		POWER SUPPLY DEVICE, CONTROL CIRCUIT, AND CONTROL METHOD
2013-007357	FMA13-00576JP	Japan	01/18/2013		SEMICONDUCTOR MEMORY DEVICE
2013-004919	FMA13-00577JP	Japan	01/15/2013		CONTROL METHOD AND CONTROL DEVICE
2013-037066	FMA13-00578JP	Japan	02/27/2013		POWER SUPPLY DEVICE, POWER SUPPLY CONTROL CIRCUIT, AND POWER SUPPLY CONTROL METHOD
2013-118836	FMA13-00579JP	Japan	06/05/2013		RING OSCILLATOR
3627423	FMA13-0057JP DIV	Japan	03/28/1996	12/17/2004	LOW-VOLTAGE PLL SEMICONDUCTOR DEVICE
2013-122887	FMA13-00580JP	Japan	06/11/2013		POWER SUPPLY CONTROL CIRCUIT, POWER SUPPLY DEVICE, AND POWER SUPPLY CONTROL METHOD
2013-095769	FMA13-00581JP	Japan	04/30/2013		CONTROL METHOD, CONTROL PROGRAM AND CONTROL DEVICE
2013-059666	FMA13-00582JP	Japan	03/22/2013		SEMICONDUCTOR DEVICE AND ERASING METHOD THEREOF
2013-113039	FMA13-00583JP	Japan	05/29/2013		MEMORY CIRCUIT

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2013-117673	FMA13-00584JP	Japan	06/04/2013		PLL CIRCUIT
2013-118587	FMA13-00585JP	Japan	06/05/2013		SWITCHING REGULATOR
2013-101149	FMA13-00586JP	Japan	05/13/2013		SEMICONDUCTOR MEMORY AND OPERATING METHOD THEREOF
2013-083875	FMA13-00587JP	Japan	04/12/2013		MICROCOMPUTER FOR CONTROLLING ACTUATOR
2013-124047	FMA13-00588JP	Japan	06/12/2013		SEMICONDUCTOR CIRCUIT, OSCILLATING CIRCUIT, AND POWER SUPPLY CIRCUIT
2013-112789	FMA13-00589JP	Japan	05/29/2013		MICROCONTROLLER AND ERROR DETECTION METHOD
4015232	FMA13-0058US	Japan	07/25/1997	09/21/2007	A PRE-SCALER, A FREQUENCY DIVIDER, AND A PLL CIRCUIT
2013-062432	FMA13-00590JP	Japan	03/25/2013		SERIAL COMMUNICATION SYSTEM, RECEIVING DEVICE, AND SERIAL COMMUNICATION METHOD
2013-106770	FMA13-00591JP	Japan	05/21/2013		SUCCESSIVE-APPROXIMATION TYPE A/D CONVERTER AND DRIVING METHOD THEREOF
2013-119458	FMA13-00592JP	Japan	06/06/2013		ELECTRIC CIRCUIT AND DRIVING METHOD THEREOF
2013-089731	FMA13-00593JP	Japan	04/22/2013		TEST METHOD, TEST APPARATUS, AND SEMICONDUCTOR MEMORY DEVICE
2013-095125	FMA13-00594JP	Japan	04/30/2013		DELAY DIFFERENCE DETECTION CIRCUIT, SEMICONDUCTOR DEVICE, DELAY DIFFERENCE DETECTION METHOD THEREOF
2013-110807	FMA13-00595JP	Japan	05/27/2013		POWER AMPLIFIER DEVICE AND METHOD OF COMPENSATING THE SAME
2013-117218	FMA13-00596JP	Japan	06/03/2013		SEMICONDUCTOR DEVICE
2013-125493	FMA13-00597JP	Japan	06/14/2013		NOISE DETECTION CIRCUIT AND RECEIVING CIRCUIT
2013-100275	FMA13-00598JP	Japan	05/10/2013		SEMICONDUCTOR DEVICE
2013-124547	FMA13-00599JP	Japan	06/13/2013		SEMICONDUCTOR MEMORY AND METHOD OF TESTING SEMICONDUCTOR MEMORY
3399770	FMA13-0059JP	Japan	02/25/1997	02/21/2003	The demodulation method, demodulation circuit, and disk apparatus of data to be demodulated
2013-132689	FMA13-00600JP	Japan	06/25/2013		CONTROL CIRCUIT AND CONTROL METHOD
2013-139110	FMA13-00601JP	Japan	07/02/2013		POWER SUPPLY CIRCUIT
2013-133931	FMA13-00602JP	Japan	06/26/2013		SEMICONDUCTOR INTEGRATED CIRCUIT AND METHOD OF OPERATING THE SAME
2013-139759	FMA13-00603JP	Japan	07/03/2013		RECONFIGURABLE LSI
2013-142695	FMA13-00604JP	Japan	07/08/2013		LED DIMMER CONTROL DEVICE
2013-147451	FMA13-00605JP	Japan	07/16/2013		SEMICONDUCTOR DEVICE AND SEMICONDUCTOR INTEGRATED CIRCUIT
2013-144444	FMA13-00606JP	Japan	07/10/2013		POWER SUPPLY DEVICE AND SEMICONDUCTOR DEVICE
2013-149187	FMA13-00607JP	Japan	07/18/2013		DRAWING METHOD, DRAWING DEVICE AND DRAWING PROGRAM
2013-150161	FMA13-00608JP	Japan	07/19/2013		SECURE BOOT METHOD, EMBEDDED DEVICE, SECURE BOOT DEVICE, AND SECURE BOOT PROGRAM
2013-150534	FMA13-00609JP	Japan	07/19/2013		SIMULATION CONTROL METHOD, SIMULATION CONTROL PROGRAM, AND SIMULATION CONTROL APPARATUS
3607044	FMA13-0060JP	Japan	06/16/1997	10/15/2004	VOLTAGE SWITCHING CIRCUIT
2013-150680	FMA13-00610JP	Japan	07/19/2013		PROCESSOR SYSTEM AND SEMICONDUCTOR INTEGRATED CIRCUIT
2013-149644	FMA13-00611JP	Japan	07/18/2013		DETECTION PROGRAM, DETECTING APPARATUS, AND DETECTION METHOD OF PROGRAM
2013-148631	FMA13-00612JP	Japan	07/17/2013		CHARGE-DISCHARGE TYPE OSCILLATING CIRCUIT
2013-147446	FMA13-00613JP	Japan	07/16/2013		DC-DC CONVERTER AND DRIVING METHOD OF THE SAME
2013-148209	FMA13-00614JP	Japan	07/17/2013		EXTERNAL ELEMENT DRIVING CONTROL CIRCUIT
2013-149785	FMA13-00615JP	Japan	07/18/2013		CAPACITANCE CONTROL CIRCUIT, SEMICONDUCTOR DEVICE, AND CAPACITANCE CONTROL METHOD
2013-149473	FMA13-00616JP	Japan	07/18/2013		SEMICONDUCTOR INTEGRATED CIRCUIT
2013-150175	FMA13-00617JP	Japan	07/19/2013		SEMICONDUCTOR DEVICE
2013-150648	FMA13-00618JP	Japan	07/19/2013		SEMICONDUCTOR DEVICE, CHARGE-DISCHARGE CONTROL SYSTEM, AND CHARGE-DISCHARGE CONTROL METHOD
2013-145259	FMA13-00619JP	Japan	07/11/2013		SEMICONDUCTOR MEMORY AND OPERATING METHOD THEREOF
3757518	FMA13-0061JP DIV2	Japan	01/30/1997	01/13/2006	POWER ON/RESET CIRCUIT
2013-151101	FMA13-00620JP	Japan	07/19/2013		CONVERSION PROGRAM AND CONVERSION METHOD
2013-150567	FMA13-00621JP	Japan	07/19/2013		DRAWING DEVICE AND DRAWING METHOD
2013-155057	FMA13-00622JP	Japan	07/25/2013		SYSTEM, EMULATOR, DEBUG SYSTEM, AND METHOD IN DEBUG SYSTEM
3795626	FMA13-0062JP	Japan	04/22/1997	04/21/2006	RECEIVER CIRCUIT
3708284	FMA13-0063EP	Japan	05/16/1997	08/12/2005	A SKEW DECREASING CIRCUIT AND A SEMICONDUCTOR DEVICE
3708285	FMA13-0063JP	Japan	05/16/1997	08/12/2005	A SKEW DECREASING CIRCUIT AND A SEMICONDUCTOR DEVICE
3727753	FMA13-0063JP-1	Japan	05/16/1997	10/07/2005	A SKEW DECREASING CIRCUIT AND A SEMICONDUCTOR DEVICE
3789598	FMA13-0063JP-2	Japan	05/20/1997	04/07/2006	THE CIRCUIT AND SEMICONDUCTOR DEVICE WHICH DECREASE MANY KINDS OF SKEW
3494849	FMA13-0064US	Japan	05/29/1997	11/21/2003	THE DATA READING METHOD OF A SEMICONDUCTOR MEMORY DEVICE, A SEMICONDUCTOR MEMORY DEVICE, AND THE CONTROL APPARATUS OF A SEMICONDUCTOR MEMORY DEVICE
4056611	FMA13-0065US	Japan	03/17/1998	12/21/2007	NTHE REPRODUCTION
4015254	FMA13-0066FR	Japan	01/16/1998	09/21/2007	PLL FREQUENCY SYNTHESIZER WITH LOCK DETECTION CIRCUIT
3693504	FMA13-0067US	Japan	07/31/1998	07/01/2005	MEMORY DEVICE
4299381	FMA13-0068JP	Japan	06/02/1998	04/24/2009	CONSTANT VOLTAGE GENERATION CIRCUIT
3566060	FMA13-0069FR	Japan	01/29/1998	06/18/2004	SEMICONDUCTOR DEVICE
3954198	FMA13-0070FR	Japan	06/01/1998	05/11/2007	AN OUTPUT CIRCUIT, A LEVEL CONVERTER CIRCUIT, A LOGIC CIRCUIT, AND AN OPERATIONAL-AMPLIFIER CIRCUIT
3544859	FMA13-0071US	Japan	05/11/1998	04/16/2004	THE SECONDARY STORAGE APPARATUS WHICH USES A NON-VOLATILE SEMICONDUCTOR MEMORY
3910983	FMA13-0072JP	Japan	09/21/2004	02/02/2007	VOLTAGE SELECTION CIRCUIT AND D/A CONVERTER
3621249	FMA13-0072US	Japan	02/27/1998	11/26/2004	A VOLTAGE SELECTING CIRCUIT, AN LCD DRIVE CIRCUIT, AND A D/A CONVERTER
3698550	FMA13-0073US	Japan	07/02/1998	07/15/2005	BOOSTING CIRCUIT AND SEMICONDUCTOR DEVICE USING THE SAME

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4518443	FMA13-0074JP	Japan	09/21/1998	05/28/2010	OPTICAL COMMUNICATION APPARATUS
10-261420	FMA13-0074US	Japan	09/16/1998		RECEIVING CIRCUIT
4121640	FMA13-0075US	Japan	11/12/1998	05/09/2008	A LOCAL OSCILLATION CIRCUIT AND A RECEIVING CIRCUIT INCLUDING THE LOCAL OSCILLATION CIRCUIT
3736980	FMA13-0076EP	Japan	12/28/1998	11/04/2005	THE EVALUATION EQUIPMENT AND THE EVALUATION METHOD OF A MICROCONTROLLER
3741870	FMA13-0077US	Japan	08/07/1998	11/18/2005	A COMMAND AND THE PREFETCH METHOD OF DATA, A MICROCONTROLLER, A PSEUDO COMMAND DETECTOR CIRCUIT
3573630	FMA13-0078JP	Japan	10/23/1998	07/09/2004	AN INTEGRATED CIRCUIT DEVICE PROVIDED WITH A TRANSMISSION- AND-RECEPTION BUFFER
3487759	FMA13-0078US DIV	Japan	04/20/1998	10/31/2003	THE SYSTEM LSI WHICH HAS A COMMUNICATION FUNCTION
10-211391	FMA13-0079US	Japan	07/27/1998		BUS ARBITRATING METHOD OF BUS CONTROLLER, BUS CONTROLLER, AND SYSTEM OF ELECTRONIC EQUIPMENT
4984337	FMA13-0080JP	Japan	06/03/1998		DRIVER CIRCUIT OF DISPLAY PANEL AND DISPLAY DEVICE
10-154810	FMA13-0080JP	Japan	06/30/1998	05/11/2012	LIQUID CRYSTAL PANEL DRIVE CIRCUIT AND LIQUID CRYSTAL DISPLAY DEVICE
10-196233	FMA13-0080JP	Japan	07/10/1998		METHOD AND CIRCUIT TO DRIVE DISPLAY PANEL, AND DISPLAY DEVICE
3598008	FMA13-0082JP	Japan	12/25/1998	09/17/2004	SEMICONDUCTOR DEVICE HAVING CURRENT AUXILIARY CIRCUIT ...
3623379	FMA13-0083DE	Japan	12/01/1998	12/03/2004	MICROPROCESSOR
4116176	FMA13-0084JP	Japan	01/14/1999	04/25/2008	SEMICONDUCTOR DEVICE
4456190	FMA13-0085JP DIV	Japan	11/17/1998	02/12/2010	DRIVER CIRCUIT OF LCD PANEL AND LCD DEVICE
4439023	FMA13-0086JP	Japan	11/20/1998	01/15/2010	SEMICONDUCTOR DEVICE AND DISPLAY DEVICE
2008-293753	FMA13-0086JP DIV2	Japan	11/20/1998		SEMICONDUCTOR DEVICE
3762558	FMA13-0087US DIV	Japan	12/28/1998	01/20/2006	THE CONTROL METHOD AND OUTPUT-SIGNAL CONTROL CIRCUIT OF THE OUTPUT SIGNAL IN SEMICONDUCTOR MEMORY DEVICE AND A SEMICONDUCTOR MEMORY DEVICE
3522584	FMA13-0088US	Japan	04/27/1999	02/20/2004	A PHASE COMPARATOR, ITS POWER SAVING OPERATION CONTROL METHOD, AND A SEMICONDUCTOR INTEGRATED CIRCUIT
4141587	FMA13-0089EP DIV	Japan	06/01/1999	06/20/2008	COMPARATOR
3779843	FMA13-0089JP	Japan	06/01/1999	03/10/2006	VOLTAGE-CONTROLLED OSCILLATOR CIRCUIT
4806481	FMA13-0091US	Japan	08/19/1999	08/19/2011	DRIVING CIRCUIT FOR SUPPLYING TONE VOLTAGE TO LCD PANEL
11-228678	FMA13-0092DE	Japan	08/12/1999		CLOCK CONTROL CIRCUIT
3691310	FMA13-0093EP	Japan	10/21/1999	06/24/2005	FREQUENCY MEASUREMENT CIRCUIT
4323460	FMA13-0093JP	Japan	05/19/2005	06/12/2009	FREQUENCY MEASUREMENT CIRCUIT??
4603088	FMA13-0094JP	Japan	12/01/2009	10/08/2010	THE NETWORK CONSTRUCTION
4444397	FMA13-0094US	Japan	06/25/1999	01/22/2010	METHOD OF CONSTRUCTING NETWORK TOPOLOGY
4456194	FMA13-0095US	Japan	03/02/1999	02/12/2010	OUTPUT CIRCUIT AND A BATTERY PACK
3592130	FMA13-0096JP	Japan	04/19/1999	09/03/2004	ELECTRONIC CIRCUIT
4071395	FMA13-0097US	Japan	07/22/1999	01/25/2008	VARIABLE GAIN AMPLIFIER
2008-150733	FMA13-0098JP	Japan	11/01/1999		PLL CIRCUIT
11-311636	FMA13-0098US	Japan	11/01/1999		PRESALER AND PLL CIRCUIT
3935922	FMA13-0099US	Japan	12/03/1999	03/30/2007	THE CHARGE-AND-DISCHARGE CONTROL CIRCUIT OF A SECONDARY BATTERY
4647747	FMA13-0100US	Japan	06/08/2000	12/17/2010	THE SEMICONDUCTOR INTEGRATED CIRCUIT DEVICE FOR A DC-DC CONVERTER AND DC-DC CONVERTERS
3782283	FMA13-0101EP	Japan	04/19/2000	03/17/2006	INTERFACE UNIT
3069498	FMA13-0102GB DIV2	Japan	09/01/1994	05/19/2000	CHARGING-AND-DISCHARGING DEVICE FOR AN ELECTRONIC APPARATUS, AND AN ELECTRONIC APPARATUS INCLUDING THE SAME, UTILIZING A CHARGING DEVICE PROVIDING A CONSTANT CHARGING CURRENT
3294819	FMA13-0102JP	Japan	09/01/1994	04/05/2002	CHARGING-AND-DISCHARGING DEVICE FOR AN ELECTRONIC APPARATUS, AND AN ELECTRONIC APPARATUS INCLUDING THE SAME, UTILIZING A CHARGING DEVICE PROVIDING A CONSTANT CHARGING CURRENT
3392371	FMA13-0102JP DIV1	Japan	09/01/1994	01/24/2003	CHARGING-AND-DISCHARGING DEVICE FOR AN ELECTRONIC APPARATUS, AND AN ELECTRONIC APPARATUS INCLUDING THE SAME, UTILIZING A CHARGING DEVICE PROVIDING A CONSTANT CHARGING CURRENT
3297022	FMA13-0102JP DIV2	Japan	09/01/1994	04/12/2002	CHARGING-AND-DISCHARGING DEVICE FOR AN ELECTRONIC APPARATUS, AND AN ELECTRONIC APPARATUS INCLUDING THE SAME, UTILIZING A CHARGING DEVICE PROVIDING A CONSTANT CHARGING CURRENT
3844295	FMA13-0102JP DIV3	Japan	09/01/1994	08/25/2006	CHARGING-AND-DISCHARGING DEVICE FOR AN ELECTRONIC APPARATUS, AND AN ELECTRONIC APPARATUS INCLUDING THE SAME, UTILIZING A CHARGING DEVICE PROVIDING A CONSTANT CHARGING CURRENT
4454772	FMA13-0103US	Japan	03/17/2000	02/12/2010	THE ABNORMALITY DETECTOR AND MICROCOMPUTER OF A COMMUNICATION BUS
4615100	FMA13-0104US	Japan	07/18/2000	10/29/2010	A DATA DRIVER AND A DISPLAY APPARATUS UTILIZING THE SAME
3864031	FMA13-0105JP	Japan	04/06/2000	10/06/2006	THE SEMICONDUCTOR INTEGRATED CIRCUIT FOR A LIQUID CRYSTAL PANEL DRIVE
3833043	FMA13-0105US DIV	Japan	04/06/2000	07/28/2006	THE GRADATION WIRING FOR INDICATORS, THE DRIVER FOR LIQUID CRYSTAL DISPLAYS, AND ITS STRESS TEST METHOD
4605871	FMA13-0106US	Japan	08/25/2000	10/15/2010	MICROPROCESSOR
4771572	FMA13-0108US DIV	Japan	04/10/2000	07/01/2011	A PLL SEMICONDUCTOR DEVICE AND THE METHOD AND APPARATUS OF THE TEST
4073157	FMA13-0109US	Japan	08/21/2000	02/01/2008	THE CASH
4472155	FMA13-0110EP	Japan	10/31/2000	03/12/2010	THE DATA DRIVER FOR LIQUID CRYSTAL DISPLAY DEVICES
3962524	FMA13-0111US	Japan	02/29/2000	05/25/2007	DISCHARGE CONTROL CIRCUIT OF BATTERIES
4265865	FMA13-0112US	Japan	09/14/2000	02/27/2009	ACTIVE LOAD CIRCUIT
4883832	FMA13-0113JP	Japan	10/05/2000	12/16/2011	NON-VOLATILE SEMICONDUCTOR MEMORY DEVICE

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4717991	FMA13-0114JP	Japan	11/08/2000	09/17/2002	The test method of a phase calculation apparatus and a phase calculation apparatus
4287037	FMA13-0114JP DIV	Japan	11/15/2000	04/03/2009	SERVO CONTROL DEVICE AND SERVO CONTROL METHOD
2000-183297	FMA13-0114US DIV	Japan	06/19/2000		SERVO CONTROL DEVICE AND SERVO CONTROL METHOD
4198303	FMA13-0115EP	Japan	06/15/2000	10/10/2008	THE PHASE DIFFERENCE
4446568	FMA13-0116US	Japan	07/21/2000	01/29/2010	PLL FREQUENCY SYNTHESIZER CIRCUIT
4668430	FMA13-0117JP	Japan	01/17/2001	01/21/2011	PRESALE AND PLL CIRCUIT
2001-116174	FMA13-0118US	Japan	04/13/2001		BINARY CARRY ARITHMETIC CIRCUIT, HALF ADDITION CIRCUIT AND INCREMENTER USING THE SAME, BINARY BORROW ARITHMETIC CIRCUIT, HALF SUBTRACTION CIRCUIT AND DECREMENTER USING THE SAME
4342111	FMA13-0119US DIV	Japan	10/09/2003	05/10/2005	CURRENT PULSE RECEIVING CIRCUIT
3913991	FMA13-0120US	Japan	02/13/2001	02/09/2007	A MICROCOMPUTER AND A COMPUTER SYSTEM
4321976	FMA13-0121US	Japan	05/31/2001	06/12/2009	A MICROCOMPUTER WITH A DEBUG ASSISTANCE FUNCTION
3872331	FMA13-0122EP	Japan	11/28/2001	10/27/2006	A DC-DC CONVERTER AND POWER SUPPLY CIRCUIT
4686065	FMA13-0123US	Japan	07/05/2001	02/18/2011	A CLOCK CONTROL APPARATUS AND A CLOCK CONTROL METHOD
4437881	FMA13-0124US	Japan	06/22/2001	01/15/2010	A MICROCOMPUTER WHICH HAS A DEBUG SUPPORT UNIT
4838458	FMA13-0125US	Japan	09/13/2001	10/07/2011	SEMICONDUCTOR DEVICE
4421148	FMA13-0126JP	Japan	07/18/2001	12/11/2009	DEBUGGING SYSTEM
3898481	FMA13-0127US	Japan	10/03/2001	01/05/2007	SEMICONDUCTOR MEMORY DEVICE
4629279	FMA13-0129CN	Japan	08/17/2001	11/19/2010	THE OPERATIONAL AMPLIFIER WHICH HAS AN OFFSET CANCELLATION FUNCTION
3987715	FMA13-0130US	Japan	12/06/2001	07/20/2007	THE PROGRAM VOLTAGE-CONTROL METHOD OF A NON-VOLATILE SEMICONDUCTOR MEMORY AND A NON-VOLATILE SEMICONDUCTOR MEMORY
4745559	FMA13-0131US DIV	Japan	08/29/2001	05/20/2011	OPERATIONAL AMPLIFIER
2001-262882	FMA13-0132US	Japan	08/31/2001		NONVOLATILE SEMICONDUCTOR MEMORY
3968228	FMA13-0133US	Japan	10/05/2001	06/08/2007	REGULATOR CIRCUIT
3968237	FMA13-0134JP DIV	Japan	12/13/2001	06/08/2007	EVALUATION DEVICE FOR MICROCOMPUTER
3984482	FMA13-0135US	Japan	02/04/2002	07/13/2007	DC OFFSET CANCEL CIRCUIT
3963258	FMA13-0136CN	Japan	02/26/2002	06/01/2007	A DC/DC CONVERTER CONTROL CIRCUITS AND DC/DC CONVERTER SYSTEMS ...
3968250	FMA13-0137US	Japan	02/05/2002	06/08/2007	DC OFFSET CANCEL CIRCUIT
4077240	FMA13-0138JP	Japan	05/10/2002	02/08/2008	A semiconductor device including pull-up/pull-down option circuit and its manufacturing method
4056768	FMA13-0139US DIV	Japan	03/04/2002	12/21/2007	A MICROCOMPUTER, THE CACHE MEMORY CONTROL METHOD, AND THE CLOCK CONTROL METHOD
2002-79714	FMA13-0140US	Japan	03/20/2002		SEMICONDUCTOR DEVICE HAVING VOLTAGE MONITORING CIRCUIT
4116805	FMA13-0141US	Japan	03/20/2002	04/25/2008	AN INTERNAL BUS TEST DEVICE AND INTERNAL BUS TEST METHOD
3895163	FMA13-0142US DIV	Japan	11/29/2001	12/22/2006	LIQUID CRYSTAL PANEL DRIVER APPARATUS
4046987	FMA13-0143DE	Japan	11/27/2001	11/30/2007	RECEIVING CIRCUIT
3939136	FMA13-0145JP	Japan	11/28/2001	04/06/2007	VOICE REPRODUCTION CIRCUIT, DECODING CIRCUIT ...
3998465	FMA13-0146US DIV	Japan	11/30/2001	08/17/2007	A VOLTAGE FOLLOWER, ITS OFFSET CANCELLATION CIRCUIT, A LIQUID CRYSTAL DISPLAY, AND ITS DATA
3930332	FMA13-0147CN DIV	Japan	01/29/2002	03/16/2007	A INTEGRATED CIRCUIT, A LIQUID CRYSTAL DISPLAY, AND A SIGNAL TRANSMISSION SYSTEM
4070492	FMA13-0148US	Japan	04/01/2002	01/25/2008	A CIRCUIT WITH A DISPERSION
4791435	FMA13-0149JP	Japan	11/19/2007	07/29/2011	DIRECT-CURRENT COMPONENT CANCELING CIRCUIT
4060597	FMA13-0149US	Japan	01/07/2002	12/28/2007	PULSE WIDTH DETECTION CIRCUIT FILTERING THE INPUT SIGNAL AND ...
2002-155653	FMA13-0150US	Japan	05/29/2002		VOLTAGE-CONTROLLED OSCILLATOR, PLL CIRCUIT AND SEMICONDUCTOR DEVICE
3963257	FMA13-0151US	Japan	02/14/2002	06/01/2007	A DC-DC CONVERTER, AND ELECTRONIC DEVICE, A DUTY-RATIO SETTING CIRCUIT
3992543	FMA13-0152JP	Japan	06/03/2002	08/03/2007	REGISTER CIRCUIT
3916994	FMA13-0153US	Japan	04/26/2002	02/16/2007	A DIFFERENTIAL CIRCUIT, A PEAK HOLD CIRCUIT AND A COMPARATOR
4608143	FMA13-0154JP	Japan	07/23/2001	10/15/2010	CALLING INFORMATION PROCESSING APPARATUS
2001-260407	FMA13-0155US	Japan	08/29/2001		SIGNAL PROCESSING APPARATUS AND SIGNAL PROCESSING METHOD, AND MULTIPLEXER
3541029	FMA13-0156JP	Japan	12/26/1994	04/02/2004	CHARGING CONTROL APPARATUS
3624180	FMA13-0156JP DIV	Japan	12/26/1994	12/03/2004	CHARGING CONTROL DEVICE AND ELECTRONIC DEVICE
3727942	FMA13-0156JP DIV	Japan	04/19/2004	10/07/2005	CHARGING CONTROL DEVICE
2003-432670	FMA13-0156JP DIV1	Japan	12/26/1994		ELECTRONIC EQUIPMENT
2004-016929	FMA13-0156JP DIV2	Japan	12/26/1994		ELECTRONIC APPARATUS, CHARGER, AND CHARGE CONTROL CIRCUIT
2006-084713	FMA13-0156JP DIV3	Japan	12/26/1994		ELECTRONIC APPARATUS, CHARGING SET, AND CHARGING CONTROL CIRCUIT
3863546	FMA13-0156JP DIV4	Japan	08/29/2005	10/06/2006	AN ELECTRONIC DEVICE, A CHARGER, AND A CHARGE CONTROL CIRCUIT
3863557	FMA13-0156JP DIV5	Japan	06/26/2006	10/06/2006	AN ELECTRONIC DEVICE, A CHARGER, AND A CHARGE CONTROL CIRCUIT
4126329	FMA13-0156JP DIV6	Japan	10/22/2007	10/22/2007	AN ELECTRONIC DEVICE, A CHARGER, AND A CHARGE CONTROL CIRCUIT
4257395	FMA13-0156JP DIV7	Japan	12/26/1994	02/13/2009	CHARGING CONTROL DEVICE
03541029	FMA13-0156US	Japan	12/26/1994	04/02/2004	CHARGING CONTROL APPARATUS
4022090	FMA13-0158IT	Japan	03/27/2002	10/05/2007	THE DETECTION METHOD AND DETECTOR OF A MOTION OF A FINGER
4005401	FMA13-0161US	Japan	04/19/2002	08/31/2007	AN AMPLIFICATION CIRCUIT AND OPTICAL COMMUNICATION APPARATUS
3968274	FMA13-0162US	Japan	07/08/2002	06/08/2007	SEMICONDUCTOR MEMORY DEVICE

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PATENT OR APPL NO.	SPANSION REFERENCE NO.	COUNTRY	FILING DATE	ISSUE DATE	TITLE
4131651	FMA13-0163US	Japan	08/21/2002	06/06/2008	THE LAYOUT METHOD OF AN INTEGRATED CIRCUIT OF HAVING A SCANNING FUNCTION
4353676	FMA13-0164CN	Japan	05/24/2002	08/07/2009	AN ACCUMULATION
2002-204686	FMA13-0165US	Japan	07/12/2002		METHOD FOR ADJUSTING THRESHOLD VOLTAGE OF NONVOLATILE SEMICONDUCTOR MEMORY AND NONVOLATILE SEMICONDUCTOR MEMORY
4773671	FMA13-0166JP	Japan	07/24/2002	07/01/2011	INPUT METHOD USING POINTING DEVICE
3949027	FMA13-0167US	Japan	08/06/2002	04/27/2007	ANALOG SWITCH CIRCUIT
4040405	FMA13-0168US	Japan	09/20/2002	11/16/2007	THE CONTROL METHOD OF A NON-VOLATILE SEMICONDUCTOR MEMORY CELL, AND A NON-VOLATILE SEMICONDUCTOR MEMORY DEVICE
4029138	FMA13-0169CN	Japan	05/20/2002	10/26/2007	FREQUENCY SYNTHESIZER CIRCUIT
3905005	FMA13-0170US	Japan	09/18/2002	01/19/2007	A PORTABLE APPARATUS AND A SUMICONDUCTOR INTEGRATED CIRCUIT DEVICE
4265894	FMA13-0171US	Japan	08/22/2002	02/27/2009	CONTROL CIRCUIT OF A DC/DC CONVERTER, AND DC/DC CONVERTER
3792706	FMA13-0172JP	Japan	12/26/2002	04/14/2006	SIGMA DELTA MODULATOR FOR PLL CIRCUIT
3958675	FMA13-0173JP	Japan	11/29/2002	05/18/2007	MICROCONTROLLER AND ITS CONTROLLING METHOD
4299530	FMA13-0174JP	Japan	11/19/2002	04/24/2009	CONTROL CIRCUIT, DC-DC CONVERTER AND ELECTRONIC DEVICE
4037212	FMA13-0175JP	Japan	08/19/2002	11/09/2007	SEMICONDUCTOR DEVICE
4067422	FMA13-0176JP	Japan	02/18/2003	01/18/2008	DATA TRANSMISSION APPARATUS
4141247	FMA13-0177GB2	Japan	12/24/2002	06/20/2008	SPREAD SPECTRUM CLOCK GENERATION CIRCUIT
4141248	FMA13-0177JP	Japan	12/25/2002	06/20/2008	SPREAD SPECTRUM CLOCK GENERATION CIRCUIT
4141250	FMA13-0177JP-1	Japan	12/26/2002	06/20/2008	SPREAD-SPECTRUM CLOCK GENERATION CIRCUIT
4245136	FMA13-0177JP-2	Japan	03/07/2003	01/16/2009	A JITTER GENERATING CIRCUIT AND SEMICONDUCTOR DEVICE
4229749	FMA13-0177JP-3 DIV	Japan	04/23/2003	12/12/2008	SPREAD SPECTRUM CLOCK GENERATION CIRCUIT
4252539	FMA13-0178IT	Japan	03/03/2003	01/30/2009	MOS TYPE VARIABLE CAPACITANCE DEVICE
4127375	FMA13-0179JP	Japan	09/25/2002	05/23/2008	MICROCOMPUTER
3859608	FMA13-0180JP	Japan	03/31/2003	09/29/2006	BATTERY PACK, ELECTRONIC APPARATUS, AND CALCULATION SYSTEM FOR REMAIN ...
4044455	FMA13-0181JP	Japan	02/18/2003	11/22/2007	DEBUG SUPPORTING DEVICE
4328084	FMA13-0182JP	Japan	11/26/2002	06/19/2009	PULL-UP VOLTAGE CONTROL CIRCUIT
4016034	FMA13-0185CN	Japan	04/10/2003	09/21/2007	PULSE WIDTH MEASURING DEVICE WITH AUTO RANGE SETTING FUNCTION
4202116	FMA13-0186US	Japan	12/26/2002	10/17/2008	A MEMORY CONTROL CIRCUIT, AND A MEMORY DEVICE, AND A MICROCOMPUTER
3999687	FMA13-0188JP	Japan	03/07/2003	08/17/2007	CONSTANT CURRENT PULSE OSCILLATION CIRCUIT AND OPTICAL COMMUNICATION ...
3980502	FMA13-0189JP	Japan	03/07/2003	07/06/2007	AMPLIFYING CIRCUIT
2007-319087	FMA13-0190JP	Japan	04/15/2003		CRYSTAL OSCILLATOR CIRCUIT
4073436	FMA13-0190US	Japan	04/15/2003	02/01/2008	QUARTZ CRYSTAL OSCILLATION CIRCUIT
4408648	FMA13-0191JP	Japan	04/17/2003	11/20/2009	An encryption and a authentication processing apparatus, a data communication apparatus, and an encryption and a authentication processing method
4514411	FMA13-0191US CON2	Japan	03/28/2003	05/21/2010	INTER-BUS COMMUNICATION INTERFACE DEVICE AND DATA SECURITY DEVICE
4027874	FMA13-0193US	Japan	10/15/2003	10/19/2007	CLOCK CHANGE CIRCUIT
3789448	FMA13-0194US	Japan	10/09/2003	04/07/2006	THE MICROCONTROLLER WHICH MOUNTED THE SYSTEM RESOURCE PRE-SCALER
4698136	FMA13-0195US	Japan	09/11/2003	03/11/2011	BAND DISTRIBUTION TEST
4364621	FMA13-0196US	Japan	12/04/2003	08/28/2009	CLOCK GENERATOR
4050298	FMA13-0197JP	Japan	11/28/2003	12/07/2007	SIGMA-DELTA MODULATOR FOR PLL CIRCUITS
4474929	FMA13-0198JP	Japan	01/28/2004	03/19/2010	DATA COMMUNICATION DEVICE
4440658	FMA13-0200EP DIV	Japan	01/20/2004	01/15/2010	SEMICONDUCTOR INTEGRATED CIRCUIT DEVICE
3966852	FMA13-0201US	Japan	12/03/2003	06/08/2007	SERIAL COMMUNICATION APPARATUS
4615233	FMA13-0202US	Japan	03/29/2004	10/29/2010	MICROCOMPUTER WITH INTERNAL DMA
5045730	FMA13-0203JP	Japan	11/02/2009	07/27/2012	LEVEL CONVERSION CIRCUIT
4421365	FMA13-0203US DIV	Japan	04/21/2004	12/11/2009	LEVEL CONVERSION CIRCUIT
4514460	FMA13-0204US	Japan	01/29/2004	05/21/2010	AN OSCILLATION CIRCUIT AND SEMICONDUCTOR DEVICE
4198089	FMA13-0205US	Japan	05/21/2004	10/10/2008	COMMUNICATION SYSTEM
4335056	FMA13-0206US	Japan	04/13/2004	07/03/2009	VOLTAGE CONTROLLED OSCILLATOR AND PLL CIRCUIT
4652729	FMA13-0207US	Japan	06/28/2004	12/24/2010	SEMICONDUCTOR DEVICE
4832721	FMA13-0208US	Japan	02/25/2004	09/30/2011	A SEMICONDUCTOR DEVICE AND MICROCONTROLLER
4868710	FMA13-0209US	Japan	03/24/2004	11/25/2011	HORIZONTAL MOS TRANSISTOR
4252485	FMA13-0210CN DIV	Japan	03/29/2004	01/30/2009	A SWITCHING-REGULATOR CONTROL CIRCUIT, A SWITCHING REGULATOR, AND THE SWITCHING-REGULATOR CONTROL METHOD
4437699	FMA13-0211GB	Japan	05/14/2004	01/15/2010	SENSOR
4197678	FMA13-0212US	Japan	12/24/2004	10/10/2008	SEMICONDUCTOR DEVICE WITH MECHANISM FOR LEAK DEFECT DETECTION
4533089	FMA13-0213JP	Japan	11/01/2004	06/18/2010	Dynamic image data production
4458923	FMA13-0214JP	Japan	05/11/2004	02/19/2010	IMAGE PROCESSING DEVICE
2004-178532	FMA13-0216US	Japan	06/16/2004		SEMICONDUCTOR DEVICE
4094045	FMA13-0217CN	Japan	09/08/2004	03/14/2008	PLL FREQUENCY SYNTHESIZER
4393317	FMA13-0218US	Japan	09/06/2004	10/23/2009	MEMORY CONTROL CIRCUIT
4675082	FMA13-0219US DIV	Japan	10/21/2004	02/04/2011	THE CONTROL METHOD OF A SEMICONDUCTOR MEMORY DEVICE AND A SEMICONDUCTOR MEMORY DEVICE
4559148	FMA13-0220JP	Japan	07/22/2004	07/30/2010	MICROCONTROLLER AND POWER SUPPLY METHOD FOR MICROCONTROLLER
4137011	FMA13-0221US	Japan	06/14/2004	06/13/2008	THE ELECTRIC CHARGING CONTROL CIRCUIT, A BATTERY PACK, AND AN ELECTRONIC APPARATUS

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4723215	FMA13-0222US	Japan	09/02/2004	04/15/2011	THE FILTER CIRCUIT WHICH ENABLED ADJUSTMENT OF CUTOFF FREQUENCY
4583850	FMA13-0223JP	Japan	09/16/2004	09/10/2010	SEMICONDUCTOR DEVICE AND METHOD FOR ITS MANUFACTURING
4613040	FMA13-0224CN	Japan	09/09/2004	10/22/2010	SEMICONDUCTOR DEVICE
4485272	FMA13-0225EP	Japan	06/30/2004	04/02/2010	SEMICONDUCTOR DEVICE
4652726	FMA13-0226US	Japan	06/11/2004	12/24/2010	THE CONTROL CIRCUIT, DC-DC CONVERTER, AND ELECTRONIC DEVICE OF A DC-DC CONVERTER
4451733	FMA13-0227GB	Japan	06/30/2004	02/05/2010	SEMICONDUCTOR DEVICE HAVING A DYNAMICALLY RECONFIGURABLE CIRCUIT CONFIGURATION
4651977	FMA13-0228US	Japan	06/25/2004	12/24/2010	THE CONTROL CIRCUIT OF A DC-DC CONVERTER, AND A METHOD OF CONTROLLING THE SAME
4472453	FMA13-0229JP	Japan	07/29/2004	03/12/2010	A micro power converter device and a magnetic device
4578889	FMA13-0231JP	Japan	08/16/2004	09/03/2010	SEMICONDUCTOR DEVICE, PRINTED-CIRCUIT BOARD AND ELECTRONICS DEVICE
4266012	FMA13-0232US	Japan	01/31/2005	02/27/2009	DC-DC CONVERTER AND CONTROL CIRCUIT DEVICE FOR DC-DC CONVERTER
4347231	FMA13-0233US	Japan	01/27/2005	07/24/2009	MULTI-PHASE DC-DC CONVERTER AND CONTROL CIRCUIT FOR MULTI- PHASE ...
4713143	FMA13-0234CN DIV	Japan	12/15/2004	04/01/2011	SEMICONDUCTOR MEMORY DEVICE
4533776	FMA13-0235JP	Japan	02/28/2005	06/18/2010	SEMICONDUCTOR DEVICE
4443424	FMA13-0236EP	Japan	01/06/2005	01/22/2010	ANALOG FILTER CIRCUIT AND ADJUSTMENT METHOD THEREOF
4178279	FMA13-0237EP	Japan	01/11/2005	09/05/2008	SIGNAL DETECTION METHOD, FREQUENCY DETECTION METHOD, POWER ...
2005-030917	FMA13-0238JP	Japan	02/07/2005		SPREAD SPECTRUM CLOCK GENERATION CIRCUIT AND METHOD OF CONTROLLING SAME
4606216	FMA13-0239US	Japan	03/24/2005	10/15/2010	COMMUNICATION DATA CONTROLLER
4347230	FMA13-0240CN	Japan	01/19/2005	07/24/2009	MULTIPHASE DC-DC CONVERTER
4721726	FMA13-0241CN	Japan	02/25/2005	04/15/2011	EARLY EFFECT CANCELING CIRCUIT, DIFFERENTIAL AMPLIFIER, LINEAR REGULATOR ...
4190503	FMA13-0242US	Japan	01/20/2005	09/26/2008	VOLTAGE CONTROL OSCILLATION CIRCUIT AND ADJUSTING METHOD FOR THE SAME
4368321	FMA13-0243US	Japan	03/16/2005	09/04/2009	AMPLIFIER CIRCUIT AND CONTROL METHOD THEREOF
4536557	FMA13-0244JP	Japan	03/11/2005	06/25/2010	MULTI-UNIT APPARATUS HAVING INTER-UNITS MONITORING FUNCTION
4342464	FMA13-0245US	Japan	03/29/2005	07/17/2009	MICROCONTROLLER
4311564	FMA13-0246US	Japan	03/10/2005	05/22/2009	CONTROL CIRCUIT AND CONTROL METHOD OF CURRENT MODE ... DC-DC CONVERTER
2005-156035	FMA13-0247US	Japan	05/27/2005		SEMICONDUCTOR DEVICE AND TESTING MODE SETTING METHOD
4592470	FMA13-0248EP	Japan	03/30/2005	09/24/2010	AMPLIFICATION CIRCUIT AND CONTROL METHOD OF AMPLIFICATION CIRCUIT
4667924	FMA13-0249US	Japan	03/29/2005	01/21/2011	VARIABLE CAPACITY CIRCUIT AND CONTROL METHOD OF VARIABLE CAPACITY CIRCUIT
4522299	FMA13-0250US	Japan	03/29/2005	06/04/2010	CONSTANT CURRENT CIRCUIT AND CONSTANT CURRENT GENERATING METHOD
4805594	FMA13-0251JP	Japan	03/30/2005	08/19/2011	MANAGING APPARATUS FOR DEVELOPING PROGRAM
3655171	FMA13-0254JP	Japan	06/22/2000	03/11/2005	CHARGE-DISCHARGE CONTROL CIRCUIT
3739005	FMA13-0254JP DIV	Japan	10/18/2004	11/11/2005	CHARGE-DISCHARGE CONTROL CIRCUIT
4188931	FMA13-0255US DIV	Japan	03/09/2005	09/19/2008	OPERATIONAL AMPLIFIER AND METHOD FOR CANCELING OFFSET VOLTAGE OF ...
4860209	FMA13-0256DE	Japan	08/24/2005	11/11/2011	SEMICONDUCTOR DEVICE WITH OPERATION MODE SET BY EXTERNAL RESISTOR
4421534	FMA13-0257CN	Japan	09/05/2005	12/11/2009	DC-DC CONVERTER AND ITS CONTROL METHOD, AND SWITCHING REGULATOR ...
4359280	FMA13-0258JP	Japan	10/07/2005	08/14/2009	PLL CIRCUIT
4376212	FMA13-0259JP	Japan	06/22/2005	09/18/2009	DEVICE AND METHOD FOR CAPACITANCE CHANGE DETECTION
4751667	FMA13-0260CN	Japan	08/12/2005	05/27/2011	SUCCESSIVE APPROXIMATION A/D CONVERTER PROVIDED WITH SAMPLE-HOLD ...
4904780	FMA13-0261US	Japan	11/07/2005	01/20/2012	NON-VOLATILE SEMICONDUCTOR MEMORY DEVICE PERFORMING ERASE OPERATION...
4681983	FMA13-0262US	Japan	08/19/2005	02/10/2011	BAND GAP CIRCUIT
4536618	FMA13-0263JP	Japan	08/02/2005	06/25/2010	RECONFIGURABLE INTEGRATED CIRCUIT DEVICE
4712503	FMA13-0264CN	Japan	09/29/2005	04/01/2011	RECONFIGURABLE ADDRESS GENERATION CIRCUIT FOR IMAGE PROCESSING, ...
4252561	FMA13-0266GB	Japan	06/23/2005	01/30/2009	CLOCK GENERATING CIRCUIT AND CLOCK GENERATING METHOD
4327144	FMA13-0267US	Japan	09/30/2005	06/19/2009	ACTIVE FILTER IN PLL CIRCUIT
4783612	FMA13-0268US	Japan	10/12/2005	07/15/2011	An extended language specification designation method, the program development method, a program, and a computer-readable storage medium
5140915	FMA13-0269EP	Japan	09/29/2005	11/30/2012	NOISE FILTER AND FILTERING METHOD
4298688	FMA13-0269US	Japan	09/15/2005	04/24/2009	CLOCK GENERATING CIRCUIT AND CLOCK GENERATING METHOD
4542020	FMA13-0270JP	Japan	10/28/2005	07/02/2010	FREQUENCY DIVIDING CIRCUIT
4800733	FMA13-0271JP	Japan	10/13/2005	08/12/2011	OUTPUT CIRCUIT
4796360	FMA13-0272US	Japan	09/07/2005	08/05/2011	REDUNDANCY SUBSTITUTION METHOD, SEMICONDUCTOR MEMORY DEVICE ...
4440869	FMA13-0273CN	Japan	10/25/2005	01/15/2010	DC-DC CONVERTER AND METHOD OF CONTROLLING DC-DC CONVERTER
5182351	FMA13-0274JP	Japan	11/15/2010	01/25/2013	ANALOG-TO-DIGITAL CONVERTER
4652214	FMA13-0274US	Japan	11/18/2005	12/24/2010	ANALOG-TO-DIGITAL CONVERTER
4988190	FMA13-0275US	Japan	12/02/2005	05/11/2012	NONVOLATILE SEMICONDUCTOR MEMORY HAVING VOLTAGE ADJUSTING CIRCUIT
4421536	FMA13-0276CN	Japan	09/09/2005	12/11/2009	CONTROLLER AND CONTROL METHOD FOR DC-DC CONVERTER
4820654	FMA13-0277US	Japan	02/06/2006	09/09/2011	CYCLE SIMULATION METHOD, CYCLE SIMULATION, AND COMPUTER PRODUCT

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4757007	FMA13-0278CN	Japan	12/08/2005	06/10/2011	STEP-UP (BOOST) DC REGULATOR WITH TWO-LEVEL BACK BIAS SWITCH GATE ...
4640985	FMA13-0279CN	Japan	12/20/2005	12/10/2010	PLURAL OUTPUT SWITCHING REGULATOR WITH PHASE COMPARISON AND DELAY ...
4640984	FMA13-0280CN	Japan	12/07/2005	12/10/2010	CONTROL CIRCUIT AND CONTROL METHOD FOR DC/DC CONVERTER
4753723	FMA13-0281CN	Japan	01/09/2006	06/03/2011	CONTROL CIRCUIT HAVING ERROR AMPLIFIER FOR DC-DC CONVERTER AND ...
4983096	FMA13-0282JP	Japan	05/24/2006	05/11/2012	NON-VOLATILE SEMICONDUCTOR MEMORY DEVICE, ERASE METHOD FOR SAME, ...
4750564	FMA13-0283US DIV	Japan	01/26/2006	05/27/2011	CIRCUIT FOR ASYNCHRONOUSLY RESETTING SYNCHRONOUS CIRCUIT
2006-72659	FMA13-0284EP	Japan	03/16/2006		METHOD OF CORRECTING TEMPERATURE CHARACTERISTIC AND AMPLIFICATION CIRCUIT FOR SENSOR
4800816	FMA13-0285JP	Japan	03/31/2006	08/12/2011	SEMICONDUCTOR INTEGRATED CIRCUIT DEVICE
4580879	FMA13-0286JP	Japan	03/02/2006	09/03/2010	RECONFIGURABLE CIRCUIT
4782591	FMA13-0287EP	Japan	03/10/2006	07/15/2011	RECONFIGURABLE CIRCUIT
4704260	FMA13-0288JP	Japan	03/27/2006	03/18/2011	PULSE WIDTH MODULATION CIRCUIT
4653000	FMA13-0289JP	Japan	03/27/2006	12/24/2010	PRESALER AND BUFFER
2006-40186	FMA13-0290US	Japan	02/17/2006		SEMICONDUCTOR MEMORY DEVICE AND ITS CONTROL METHOD
4606315	FMA13-0292JP	Japan	11/29/2005	10/15/2010	SEMICONDUCTOR DEVICE
4598691	FMA13-0293US	Japan	02/22/2006	10/01/2010	PLL CIRCUIT AND SEMICONDUCTOR DEVICE
4940684	FMA13-0294US	Japan	02/10/2006	03/09/2012	PHASE ADJUSTER CIRCUIT AND PHASE ADJUSTING METHOD
2005-373175	FMA13-0295EP	Japan	12/26/2005		COMPARATOR CIRCUIT AND CONTROL METHOD THEREOF
4978022	FMA13-0296US	Japan	02/16/2006	04/27/2012	OPERATIONAL AMPLIFIER
4086049	FMA13-0297JP DIV	Japan	04/08/2005	02/29/2008	POWER-ON/RESET CIRCUIT
5143370	FMA13-0299GB	Japan	03/23/2006	11/30/2012	DELAY CONTROL CIRCUIT
4699927	FMA13-0300JP	Japan	03/27/2006	03/11/2011	COMMON INPUT/OUTPUT TERMINAL CONTROL CIRCUIT
5040136	FMA13-0301US	Japan	03/27/2006	07/20/2012	The computer-readable recording medium and tuning assistance method which recorded the tuning assistance apparatus, and the tuning assistance program
4850540	FMA13-0302CN	Japan	03/02/2006	10/28/2011	DC-DC CONVERTER AND CONTROL CIRCUIT FOR DC-DC CONVERTER
2002-586354	G0063JP	Japan	11/14/2001		ACCURATE VERIFY APPARATUS AND METHOD FOR NOR FLASH MEMORY CELLS IN THE PRESENCE OF HIGH COLUMN LEAKAGE
4885420	G0074JP	Japan	12/14/2001	12/16/2011	SOURCE DRAIN IMPLANT DURING ONO FORMATION FOR IMPROVED ISOLATION OF SONOS DEVICES
2002-592134	G0259JP	Japan	02/19/2002		FLASH MEMORY DEVICE WITH INCREASE OF EFFICIENCY DURING AN APDE (AUTOMATIC PROGRAM DISTURB AFTER ERASE) PROCESS
2004-522988	G0391JP	Japan	06/10/2003		BUILT-IN-SELF-TEST (BIST) OF FLASH MEMORY CELLS AND IMPLEMENTATION OF BIST INTERFACE
2003-558921	G0689JP	Japan	12/11/2002		SHALLOW TRENCH ISOLATION APPROACH FOR IMPROVED STI CORNER ROUNDING
2004-559060	G0730	Japan	09/24/2003		METHOD AND SYSTEM FOR REDUCING CONTACT DEFECTS USING NON CONVENTIONAL CONTACT FORMATION METHOD FOR SEMICONDUCTOR CELLS
4698598	G0752JP	Japan	01/08/2004	03/11/2011	IMPROVED PERFORMANCE IN FLASH MEMORY DEVICES
4235115	G0861JP	Japan	02/14/2003	12/19/2008	IMPROVED ERASE METHOD FOR SINGLE SIDED MIRROR OPERATION
4252464	G0862JP	Japan	02/14/2003	01/30/2009	REFRESH SCHEME FOR DYNAMIC PAGE PROGRAMMING
2003-585103	G0864JP	Japan	02/14/2003		REFRESH SCHEME FOR DYNAMIC PAGE PROGRAMMING
4461281	G0865JP	Japan	07/10/2003	02/26/2010	MOCVD FORMATION OF Cu ₂ S
2004-508353	G0866JP	Japan	04/22/2003		STEPPED PRE-ERASE VOLTAGE FOR MIRRORBIT ERASE
2004-555270	G0871	Japan	07/10/2003		LATERAL DOPED CHANNEL
5095081	G0878JP	Japan	07/10/2003	09/28/2012	MEMORY DEVICE AND METHOD FOR FABRICATING THE SAME
2003-568662	G1255JP	Japan	02/05/2003		PARTIAL PAGE PROGRAMMING OF MULTI LEVEL FLASH MEMORY CELL ARRAY, SEMICONDUCTOR DEVICE, AND METHOD OF FABRICATING ORGANIC SEMICONDUCTOR DEVICE
4974462	H0297JP	Japan	07/10/2003	04/20/2012	CONTROL OF MEMORY DEVICES POSSESSING VARIABLE RESISTANCE CHARACTERISTICS
5176018	H0325JP	Japan	09/19/2005	01/18/2013	MOCVD FORMATION OF Cu ₂ S
4708793	H0343JP	Japan	07/10/2003	03/25/2011	MOCVD FORMATION OF Cu ₂ S
5144254	H0346JP	Japan	02/11/2005	11/30/2012	IN-SITU SURFACE TREATMENT FOR MEMORY CELL FORMATION
5324042	H0354JP	Japan	03/01/2004	07/26/2013	SPIN ON POLYMERS FOR ORGANIC MEMORY DEVICES
5525132	H0368JP	Japan	02/11/2005	04/18/2014	POLYMER DIELECTRICS FOR ME ARRAY INTERN CONNECT
2011-219250	H0368JP DIV	Japan	02/11/2005		SEMICONDUCTOR DEVICE
2004-559054	H0385JP	Japan	09/08/2003		AN ORGANIC MEMORY DEVICE AND METHOD FOR FORMING A MEMORY CELL
2006-537996	H0416JP	Japan	09/23/2004		SIDEWALL FORMATION FOR HIGH DENSITY POLYMER MEMORY ELEMENT ARRAY
4861172	H0422JP	Japan	05/11/2004	11/11/2011	METHOD AND SYSTEM FOR MANUFACTURING POLYMER MEMORY DEVICE IN VIA OPENING
5311740	H0423JP	Japan	09/16/2004	07/12/2013	ORGANIC MEMORY DEVICE
5443246	H0423JP DIV	Japan	04/06/2010	12/27/2013	METHOD OF PROCESSING ORGANIC MEMORY DEVICE
4995422	H0434JP	Japan	07/10/2003	05/18/2012	STACKED ORGANIC MEMORY DEVICES AND METHOD OF FABRICATING
5058596	H0437JP	Japan	05/11/2004	08/10/2012	PLANAR ORGANIC MEMORY DEVICE AND METHOD FOR MANUFACTURING SAME
4903562	H0442JP	Japan	05/21/2004	01/13/2012	ORGANIC MEMORY DEVICE AND METHODS OF USING AND MAKING THE DEVICE
2004-549909	H0514	Japan	06/10/2003		NITROGEN OXIDATION TO REDUCE ENCROACHMENT
2006-522575	H0541	Japan	07/15/2004		LOW POWER CHARGE PUMP

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4252536	H0570JP	Japan	07/24/2003	01/30/2009	IMPROVED SYSTEM FOR PROGRAMMING A NON-VOLATILE MEMORY CELL
2004-557106	H0575	Japan	07/24/2003		IMPROVED PRE-CHARGE METHOD FOR READING A NON-VOLATILE MEMORY CELL ARRAY WITH STAGGERED LOCAL INTERCONNECT STRUCTURE
2006-535499	H0576JP	Japan	09/16/2004		MEMORY CELL AND FABRICATION METHOD THEREOF
2006-533937	H0577JP	Japan	09/16/2004		METHOD OF PROGRAMMIN DUAL CELL MEMORY DEVICE TO STORE MULTIPLE DATA STATES PER CELL
4450330	H0587JP	Japan	03/08/2004	02/05/2010	METHOD OF PROGRAMMING CHARGE TRAPPING DIELECTRIC MEMORY DEVICE AND CHARGE TRAPPING DIELECTRIC
2006-506976	H0588JP	Japan	03/08/2004		METHOD OF DUAL CELL MEMORY DEVICE OPERATION FOR IMPROVED END-OF-LIFE READ MARGIN
5281599	H0588JP DIV	Japan	03/08/2004	05/31/2013	IMPROVED METHOD FOR READING A NON-VOLATILE MEMORY CELL ADJACENT TO AN INACTIVE REGION OF A NON-VOLATILE MEMORY CELL ARRAY
4392026	H0625JP	Japan	01/08/2004	10/16/2009	MEMORY DEVICE AND METHOD USING POSITIVE GATE STRESS TO RECOVER OVERERASED CELL
5160787	H0626JP	Japan	09/16/2004	12/21/2012	IMPROVED PERFORMANCE IN FLASH MEMORY DEVICES
4731488	H0671JP	Japan	01/08/2004	04/28/2011	CASCADE AMPLIFIER CIRCUIT FOR PRODUCING A FAST, STABLE AND ACCURATE BITLINE VOLTAGE
2004-555269	H1203	Japan	08/22/2003		SELECTION CIRCUIT FOR ACCURATE MEMORY READ OPERATIONS
5085934	H1204JP	Japan	01/08/2004	09/14/2012	CIRCUIT FOR ACCURATE MEMORY READ OPERATIONS
2004-559036	H1205JP	Japan	07/24/2003		CIRCUIT FOR ACCURATE MEMORY READ OPERATIONS
4871127	H1368JP	Japan	06/18/2004	11/25/2011	PECVD SILICON-RICH OXIDE LAYER FOR REDUCED UV CHARGING
4927550	H1414JP	Japan	06/05/2004	02/17/2012	NON-VOLATILE MEMORY DEVICE, METHOD OF MANUFACTURING NON-VOLATILE MEMORY DEVICE, AND NON-VOLATILE MEMORY ARRAY
2006-542575	H1415JP	Japan	10/26/2004		FLASH MEMORY DEVICE
4520982	H1513JP	Japan	03/01/2004	05/28/2010	CIRCUIT FOR FAST AND ACCURATE MEMORY READ OPERATIONS
5290517	H1862JP	Japan	08/31/2004	06/14/2013	METHOD FOR FABRICATING MEMORY CELL STRUCTURE
4495723	H1892JP	Japan	03/08/2004	04/16/2010	FAST, ACCURATE AND LOW POWER SUPPLY VOLTAGE BOOSTER USING A/D CONVERTER
2002-588554	H1971	Japan	05/07/2002		A MEMORY DEVICE WITH A SELF-ASSEMBLED POLYMER FILM AND METHOD OF MAKING THE SAME
2002-588633	H1973	Japan	05/07/2002		FLOATING GATE MEMORY DEVICE USING COMPOSITE MOLECULAR MATERIAL
2002-588649	H1975	Japan	05/07/2002		MEMORY SWITCH
2004-537736	H1978	Japan	09/08/2003		ORGANIC THIN FILM ZENER DIODES
2003-522101	H1979JP	Japan	08/13/2001		MEMORY CELL
2007-511353	H1984JP	Japan	02/11/2005		METHODS AND APPARATUS FOR WORDLINE PROTECTION IN FLASH MEMORY DEVICES
2011-237023	H1984JP DIV	Japan	02/11/2005		METHODS AND APPARATUS FOR WORDLINE PROTECTION IN FLASH MEMORY DEVICES
4698612	H1985JP	Japan	12/17/2004	03/11/2011	POCKET IMPLANT FOR COMPLEMENTARY BIT DISTURB IMPROVEMENT AND CHARGING IMPROVEMENT OF SONOS MEMORY CELL
4642848	H1990JP	Japan	04/29/2005	12/10/2010	METHOD OF FORMING NARROWLY SPACED FLASH MEMORY CONTACT OPENINGS
5053398	H1990JP DIV	Japan	04/29/2005	08/03/2012	METHOD FOR CREATING PLURALITY OF OPTICAL FEATURES SEPARATED FROM ONE ANOTHER ON LITHOGRAPHY MASK
4922926	H1993JP	Japan	02/11/2005	02/10/2012	METHOD OF FORMING AT LEAST PORTION OF DUAL BIT MEMORY CORE ARRAY UPON SEMICONDUCTOR SUBSTRATE
4757909	H1998JP	Japan	04/04/2006	06/10/2011	METHOD FOR POLYSILICON-1 DEFINITION OF FLASH MEMORY DEVICE
HEI 8-334141	JC137496JP	Japan	12/13/1996		SEMICONDUCTOR DEVICE AND THE METHOD FOR FABRICATING THEREOF
2000-587371	JC684497JP	Japan	11/29/1999		HIGH YIELD, HIGH PERFORMANCE SEMICONDUCTOR PROCESS FLOW FOR NAND FLASH MEMORY PRODUCTS
2000-572920	JC685497JP	Japan	09/28/1999		HIGH TEMPERATURE DEPOSITION OF OXIDE LAYER THAT PROTECTS AGAINST IMPLANTATION DAMAGE
5289650	JC688497JP	Japan	02/11/1999	06/14/2013	THE MANUFACTURING METHOD OF THE NAND-FLASH-MEMORY APPARATUS WITH WHICH POLY 1 EASY CONTACT IS OBTAINED BY THE REMOVAL OF A POLY CAP
4718007	JC818597JP	Japan	12/17/1998	04/08/2011	PROCESS FOR FABRICATING AN INTEGRATED CIRCUIT WITH A SELF-ALIGNED CONTACT
60265163	M84-003	Japan	11/27/1985		METHOD AND STRUCTURE FOR DISABLING AND REPLACING DEFECTIVE MEMORY IN A PROM
2000-229200	P-1164JP	Japan	07/28/2000		AN NROM FABRICATION METHOD
2001-338271	P-2448WO	Japan	04/03/2002		PROGRAMMING AND ERASING METHOD FOR NROM ARRAY
2001-338308	P-2448WO	Japan	04/03/2002		PROGRAMMING AND ERASING METHOD FOR NROM ARRAY
2001-581281	P-2448WO	Japan	11/02/2001		ARCHITECTURE AND SCHEME FOR A NON-STROBED READ SEQUENCE
2002-101411	P-2448WO	Japan	05/03/2001		PROGRAMMING AND ERASING METHOD FOR NROM ARRAY
2002-101471	P-2448WO	Japan	05/03/2001		PROGRAMMING AND ERASING METHOD FOR NROM ARRAY
2003-539051	P-4006JP	Japan	10/24/2002		METHOD FOR ERASING A MEMORY CELL
2002-334684	P-4007JP	Japan	11/19/2002		PROTECTIVE LAYER IN MEMORY DEVICE AND METHOD THEREFOR
2003-272960	P-4629JP	Japan	07/10/2003		A MULTIPLE USE MEMORY CHIP
2003-023064	P-4676JP1	Japan	01/31/2003		METHOD FOR OPERATING A MEMORY DEVICE
2006-001351	P-4676JP3	Japan	01/06/2006		METHOD FOR OPERATING A MEMORY DEVICE
2006-537552	P-5484US	Japan	10/27/2004		METHOD SYSTEM AND CIRCUIT FOR PROGRAMMING A NON-VOLATILE MEMORY ARRAY
2006-537553	P-5487-TW	Japan	10/27/2004		METHOD CIRCUIT AND SYSTEM FOR DETERMINING A REFERENCE VOLTAGE

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2006-537554	P-5487-TW1	Japan	10/28/2004	01/01/2013	METHOD FOR READ ERROR DETECTION IN A NON-VOLATILE MEMORY ARRY
4164324	P-6343US	Japan	09/19/2002	08/01/2008	METHOD OF MANUFACTURING A SEMICONDUCTOR DEVICE
2005-355621	P-6628US	Japan	12/09/2005		MEMORY FOR READING NON-VOLATILE MEMORY CELLS
2006-222247	P-6628US CIP	Japan	07/09/2008		METHOD FOR READING NON-VOLATILE MEMORY CELLS
2008-178796	P-6628US CIP	Japan	08/17/2005	07/10/2007	METHOD FOR READING NON-VOLATILE MEMORY CELLS
4249131	SE0002JP	Japan	03/11/2003	01/23/2009	A SYSTEM AND METHOD OF ERASE VOLTAGE CONTROL DURING MULTIPLE SECTOR ERASE OF A FLASH MEMORY DEVICE
2015-515096	SP09-0030JP	Japan	05/24/2013		METHOD, APPARATUS, AND MANUFACTURE FOR FLASH MEMORY ADAPTIVE ALGORITHM
4260461	SP09-0038US	Japan	11/13/2002	02/20/2009	INFRARED COMMUNICATION SYSTEM, INFRARED GATEWAY UNIT, AND PROGRAM FOR INFRARED COMMUNICATION
2014-546120	SP09-0056EP	Japan	12/07/2012		HIGH SPEED SERIAL PERIPHERAL INTERFACE MEMORY SUBSYSTEM
2007-110264	SP09-0056WO	Japan	04/19/2007		EXHAUST SYSTEM
2013-544818	SP10-0007JP	Japan	12/17/2010		SELF-ALIGNED NAND FLASH SELECT-GATE WORDLINES FOR SPACER DOUBLE PATTERNING
2013-544874	SP10-0008JP	Japan	12/19/2011		EDGE ROUNDED FIELD EFFECT TRANSISTORS AND METHODS OF MANUFACTURING
2013-544873	SP10-0009JP	Japan	12/19/2011		PROCESS MARGIN ENGINEERING IN CHARGE TRAPPING FIELD EFFECT TRANSISTORS
2013-547676	SP10-0012JP	Japan	12/29/2011		MEMORY WITH EXTENDED CHARGE TRAPPING LAYER
2015-512745	SP11-0015EP	Japan	05/14/2013		SOFT ERROR RESISTANT CIRCUITRY
2013-000647	SP11-0021JP	Japan	01/07/2013		APPARATUS AND METHOD FOR A REDUCED PIN COUNT (RPC) MEMORY BUS INTERFACE INCLUDING A READ DATA STROBE SIGNAL
2014-557699	SP11-0027JP	Japan	02/08/2013		IMPROVING REDUNDANCY LOADING EFFICIENCY
5528869	SP11-0032US	Japan	03/23/2010	04/25/2014	ANTI GLARE FILM AND METHOD FOR READING THE SAME
2012-271622	SP11-0034GB	Japan	12/12/2012		CONTINUOUS READ BURST SUPPORT AT HIGH CLOCK RATES
2014-547494	SP11-0042JP	Japan	12/14/2012		ACOUSTIC PROCESSING UNIT
2015-504651	SP12-0013JP	Japan	04/01/2013		ADAPTIVELY PROGRAMMING OR ERASING FLASH MEMORY BLOCKS
4695158	SP12-0080US	Japan	04/23/2008	03/04/2011	METHOD OF MANUFACTURING SEMICONDUCTOR DEVICE
5405927	SP13-0035US	Japan	07/15/2009	11/08/2013	NETWORK NODE
2015-031330	SP13-0036JP	Japan	02/20/2015		MEMORY SUBSYSTEM WITH WRAPPED-TO-CONTINUOUS READ
306190/1994	TT0313US	Japan	12/09/1994		ROM ARRAY CONTROLLER CAPABLE OF CONTROLLING ROM BANKS HAVING VARIABLE BIT Width.
3866778	TT0347FR	Japan	12/09/1994	10/13/2006	METHOD FOR ETCHING AND IMPLANTING SOURCE REGIONS
4458498	TT0497GB	Japan	02/20/1996	02/19/2010	A NON-VOLATILE MEMORY DEVICES HAVING A FLOATING GATE WITH ENHANCED CHARGE RETENTION
102638/1996	TT0607EP	Japan	04/24/1996		METHOD FOR READING A NON-VOLATILE MEMORY ARRAY
1203378	C725497	Netherland	08/01/2000	03/05/2003	CIRCUIT IMPLEMENTATION TO QUENCH BIT LINE LEAKAGE CURRENT IN PROGRAM AND AUTO PROGRAM DISTURB MODE IN FLASH EPROM USING RESISTOR SOURCE LOAD
1116239	D168	Netherland	08/16/1999	05/15/2002	SIMULTANEOUS OPERATION FLASH MEMORY DEVICE WITH A FLEXIBLE DEVICE WITH A FLEXIBLE BANK PARTITION ARCHITECTURE
88050	AF01002SG	Singapore	10/07/2000	05/31/2004	LOW VOLTAGE READ CASCODE FOR 2V/3V AND DIFFERENT BANK COMBINATIONS WITHOUT METAL OPTIONS FOR A SIMULTANEOUS OPERATION FLASH MEMORY DEVICE
88046	AF01054SG	Singapore	10/16/2000	05/31/2004	HIGH TEMPERATURE OXIDE DEPOSITION PROCESS FOR FABRICATING AN ONO FLOATING-GATE ELECTRODE IN A TWO BIT EEPROM DEVICE
93394	AF01076SG	Singapore	05/21/2001	04/28/2006	BURST ARCHITECTURE FOR A FLASH MEMORY
93681	AF01085SG	Singapore	06/04/2001	05/31/2005	METHOD TO REDUCE CAPACITIVE LOADING IN FLASH MEMORY X-DECODER FOR ACCURATE VOLTAGE CONTROL AT WORDLINES AND SELECT LINES
105202	AF01124SG	Singapore	12/11/2002	05/31/2006	MONOS DEVICE HAVING BURIED METAL SILICIDE BIT LINE
115033	AF01186SG	Singapore	01/08/2004	09/28/2007	CHARGE-TRAPPING MEMORY ARRAYS RESISTANT TO DAMAGE FROM CONTACT HOLE FORMATION
124437	AF01209SG	Singapore	04/13/2004	09/30/2008	METHOD FOR REDUCING SHORT CHANNEL EFFECTS IN MEMORY CELLS AND RELATED STRUCTURE
87395	C656497SG	Singapore	08/31/2000	05/31/2004	TUNGSTEN GATE MOS TRANSISTOR AND MEMORY CELL AND METHOD OF MAKING SAME
86825	C725497	Singapore	08/13/1999		CIRCUIT IMPLEMENTATION TO QUENCH BIT LINE LEAKAGE CURRENT IN PROGRAM AND AUTO PROGRAM DISTURB MODE IN FLASH EPROM USING RESISTOR SOURCE LOAD
88410	D838SG	Singapore	10/24/2000	04/30/2004	SOLID-SOURCE DOPING FOR SOURCE/DRAIN OF FLASH MEMORY
89582	D853SG	Singapore	12/05/2000	08/31/2004	METHOD TO PROVIDE A REDUCED CONSTANT E-FIELD DURING ERASE OF EEPROMS FOR RELIABILITY IMPROVEMENT
88054	D894SG	Singapore	09/29/2000	04/30/2004	METHOD OF MANUFACTURING A SEMICONDUCTOR DEVICE WITH REDUCED ARC LOSS IN PERIPHERAL CIRCUITRY REGION
90473	D958SG	Singapore	12/13/2000	07/30/2004	NOVEL NITRIDATION BARRIERS FOR NITRIDATED TUNNEL OXIDE FOR CIRCUITRY FOR FLASH TECHNOLOGY AND FOR LOCOS/STI ISOLATION
86829	DA01016SG	Singapore	07/14/2000	12/31/2003	METHOD FOR PROVIDING A DOPANT LEVEL FOR POLYSILICON FOR FLASH MEMORY DEVICES
87297	E0251	Singapore	07/14/2000	05/31/2004	FLASH MEMORY ARCHITECTURE EMPLOYING THREE LAYER METAL INTERCONNECT
90972	E0264	Singapore	02/07/2001	10/29/2004	TRIMMING METHOD FOR WORDLINE BOOSTER TO MINIMIZE PROCESS VARIATION OF BOOSTED WORDLINE VOLTAGE
92963	E0302SG	Singapore	05/01/2001	07/29/2005	UNIFORM BITLINE STRAPPING OF NON-VOLATILE MEMORY CELL

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92996	E0462SG	Singapore	05/21/2001	07/29/2005	DUAL PORTED CAMS FOR SIMULTANEOUS OPERATION FLASH MEMORY
94125	F0004SG	Singapore	06/08/2001	10/31/2005	AUTOMATED DETERMINATION AND DISPLAY OF THE PHYSICAL LOCATION OF A FAILED CELL IN AN ARRAY OF MEMORY CELLS
103213	F0282SG	Singapore	09/30/2002	06/30/2006	DOUBLE DENSED CORE GATES IN SONOS FLASH MEMORY
103214	F0283SG	Singapore	09/27/2002	08/31/2006	SALICIDED GATE FOR VIRTUAL GROUND ARRAYS
95712	F0499SG	Singapore	08/06/2001	08/31/2007	A SOURCE SIDE BORON IMPLANTING AND DIFFUSING DEVICE ARCHITECTURE FOR DEEP SUBSTANCE 0.18UM FLASH MEMORY TECHNOLOGIES
104823	G0689SG	Singapore	12/11/2002	08/31/2006	SHALLOW TRENCH ISOLATION APPROACH FOR IMPROVED STI CORNER ROUNDING
112465	G0865SG	Singapore	07/10/2003	11/30/2007	MOCVD FORMATION OF Cu ₂ S
107309	G0866SG	Singapore	04/22/2003	11/30/2006	STEPPED PRE-ERASE VOLTAGE FOR MIRRORBIT ERASE
111829	G0871SG	Singapore	07/10/2003	08/31/2007	LATERAL DOPED CHANNEL
112467	G0878SG	Singapore	07/10/2003	08/31/2007	A METHOD AND SYSTEM FOR ERASING A NITRIDE MEMORY DEVICE
112466	H0343SG	Singapore	07/10/2003	07/31/2007	MOCVD FORMATION OF Cu ₂ S
200505789-8	H0354SG	Singapore	03/01/2004		SPIN ON POLYMERS FOR ORGANIC MEMORY DEVICES
113211	H0385SG	Singapore	09/08/2003	12/31/2007	AN ORGANIC MEMORY DEVICE AND METHOD FOR FORMING A MEMORY CELL
118781	H0422SG	Singapore	05/11/2004	01/31/2008	METHOD AND SYSTEM FOR MANUFACTURING POLYMER MEMORY DEVICE IN VIA OPENING
112222	H0434SG	Singapore	07/10/2003	04/30/2007	STACKED ORGANIC MEMORY DEVICES AND METHODS OF OPERATING AND FABRICATING
117306	H0437SG	Singapore	05/11/2004	11/30/2007	PLANAR POLYMER MEMORY DEVICE
118782	H0442SG	Singapore	05/21/2004	03/31/2008	ORGANIC MEMORY DEVICE AND METHODS OF USING AND MAKING THE DEVICE
111365	H0514SG	Singapore	06/10/2003	10/31/2007	NITROGEN OXIDATION TO REDUCE ENCROACHMENT
111889	H0570SG	Singapore	07/24/2003	10/31/2007	IMPROVED SYSTEM FOR PROGRAMMING A NON-VOLATILE MEMORY CELL
121233	H0576SG	Singapore	09/16/2004	11/28/2008	MEMORY CELL ARRAY WITH STAGGERED LOCAL INTERCONNECT STRUCTURE
114127	H0671SG	Singapore	01/08/2004	09/28/2007	IMPROVED PERFORMANCE IN FLASH MEMORY DEVICES
115936	H1204SG	Singapore	01/08/2004	08/31/2007	SELECTION CIRCUIT FOR ACCURATE MEMORY READ OPERATIONS
118784	H1368SG	Singapore	06/18/2004	12/31/2007	PECVD SILICON-RICH OXIDE LAYER FOR REDUCED UV CHARGING
119992	H1862SG	Singapore	08/31/2004	10/31/2008	MEMORY CELL STRUCTURE HAVING NITRIDE LAYER WITH REDUCED CHARGE LOSS AND METHOD FOR FABRICATING SAME
317647	A887KR	South Korea	09/25/1993	12/03/2001	VPP POWER SUPPLY
277136	A888/1987KR	South Korea	09/25/1993	10/06/2000	DRAIN POWER SUPPLY
283019	A889/1988KR	South Korea	09/25/1993	12/04/2000	NEGATIVE POWER SUPPLY
345878	A900/1996KR	South Korea	06/08/1994	07/11/2002	IMPROVED OUTPUT BUFFER CIRCUIT FOR LOW VOLTAGE EPROM
357444	A938/2033KR	South Korea	11/25/1994	10/07/2002	PROGRAMMED REFERENCE
333257	A939/2034KR	South Korea	11/25/1994	04/08/2002	BOOSTED AND REGULATED GATE POWER SUPPLY WITH REFERENCE TRACKING FOR MULTI-DENSITY AND LOW VOLTAGE SUPPLY MEMORIES
357443	A960/2054KR	South Korea	04/08/1995	10/07/2002	METHOD AND APPARATUS FOR PROGRAMMING MEMORY DEVICES
366599	A976/2067KR	South Korea	06/24/1995	12/16/2002	HIGH ENERGY BURIED LAYER IMPLANT TO PROVIDE A LOW RESISTANCE P-WELL IN A FLASH EPROM ARRAY
645573	AF01002KR	South Korea	10/07/2000	11/06/2006	LOW VOLTAGE READ CASCODE FOR 2V/3V AND DIFFERENT BANK COMBINATIONS WITHOUT METAL OPTIONS FOR A SIMULTANEOUS OPERATION FLASH MEMORY DEVICE
725649	AF01036KR	South Korea	02/07/2001	05/30/2007	WORDLINE DRIVER FOR FLASH MEMORY READ MODE
784472	AF01054KR	South Korea	10/16/2000	12/04/2007	HIGH TEMPERATURE OXIDE DEPOSITION PROCESS FOR FABRICATING AN ONO FLOATING-GATE ELECTRODE IN A TWO BIT EEPROM DEVICE
737984	AF01064KR	South Korea	03/20/2001	07/04/2007	METHOD FOR FORMING HIGH QUALITY MULTIPLE THICKNESS OXIDE LAYERS USING HIGH TEMPERATURE DESCUM
785107	AF01066KR	South Korea	03/20/2001	12/05/2007	METHOD FOR FORMING HIGHQUALITY MULTIPLE THICKNESS OXIDE LAYERS BY REDUCING DESCUM INDUCED DEFECTS
725648	AF01072KR	South Korea	02/05/2001	05/30/2007	VOLTAGE BOOST LEVEL CLAMPING CIRCUIT FOR A FLASH MEMORY
784473	AF01073KR	South Korea	07/31/2001	12/04/2007	WORD LINE DECODING ARCHITECTURE IN A FLASH MEMORY
675959	AF01075KR	South Korea	03/12/2001	01/23/2007	MULTIPLE BANK SIMULTANEOUS OPERATION FOR A FLASH MEMORY
717412	AF01076KR	South Korea	05/21/2001	05/04/2007	BURST ARCHITECTURE FOR A FLASH MEMORY
822486	AF01078KR	South Korea	07/17/2001	04/08/2008	BURST READ INCORPORATING OUTPUT BASED REDUNDANCY
708915	AF01085KR	South Korea	06/04/2001	04/11/2007	METHOD TO REDUCE CAPACITIVE LOADING IN FLASH MEMORY X-DECODER FOR ACCURATE VOLTAGE CONTROL AT WORDLINES AND SELECT LINES
708914	AF01086KR	South Korea	09/29/2000	04/11/2007	A WORD LINE TRACKING STRUCTURE FOR USE IN AN ARRAY OF FLASH EEPROM MEMORY CELLS
796041	AF01090KR	South Korea	11/14/2001	01/11/2008	I/O PARTITIONING AND METHODOLOGY TO REDUCE BAND-TO-BAND TUNNELING CURRENT DURING ERASE
865587	AF01094KR	South Korea	03/14/2002	10/21/2008	VOLTAGE BOOST CIRCUIT USING SUPPLY VOLTAGE DETECTION TO COMPENSATE FOR SUPPLY VOLTAGE VARIATION IN READ MODE VOLTAGES
828196	AF01096KR	South Korea	12/12/2001	04/30/2008	SOFT PROGRAM AND SOFT PROGRAM VERIFY OF THE CORE CELLS IN FLASH MEMORY ARRAY
810710	AF01102KR	South Korea	08/07/2001	02/28/2008	SIMULTANEOUS FORMATION CHARGE STORAGE AND BITLINE TO WORDLINE ISOLATION
10-0953208	AF01116KR	South Korea	03/03/2003	04/08/2010	SYSTEM AND METHOD FOR MULTI-BIT FLASH READS USING DUAL DYNAMIC REFERENCES

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PATENT OR APPL NO.	SPANION REFERENCE NO.	COUNTRY	FILING DATE	ISSUE DATE	TITLE
10-0948199	AF01124KR	South Korea	12/11/2002	03/10/2010	MONOS DEVICE HAVING BURIED METAL SILICIDE BIT LINE
10-1059234	AF01132KR	South Korea	01/21/2003	08/18/2011	HARD MASK PROCESS FOR MEMORY DEVICE WITHOUT BITLINE SHORTS
10-0987505	AF01134KR	South Korea	01/21/2003	10/06/2011	METHOD OF MAKING MEMORY WORDLINE HARD MASK EXTENSION
7016142/2004	AF01137KR	South Korea	02/14/2003		MEMORY MANUFACTURING PROCESS WITH BITLINE ISOLATION
10-0973788	AF01165KR	South Korea	06/10/2003	07/28/2010	COLUMN-DECODING AND PRECHARGING IN A FLASH MEMORY DEVICE
702499/2005	AF01169	South Korea	05/21/2004		MEMORY WITH A CORE-BASED VIRTUAL GROUND AND DYNAMIC REFERENCE SENSING SCHEME
10-1017713	AF01186KR	South Korea	01/08/2004	01/18/2011	CHARGE-TRAPPING MEMORY ARRAYS RESISTANT TO DAMAGE FROM CONTACT HOLE FORMATION
7020925/2005	AF01209KR	South Korea	04/13/2004		METHOD FOR REDUCING SHORT CHANNEL EFFECTS IN MEMORY CELLS AND RELATED STRUCTURE
7014331/2006	AF01214KR	South Korea	12/17/2004		EFFICIENT USE OF WAFER AREA WITH DEVICE UNDER THE PAD APPROACH
10-1092010	AF01220KR	South Korea	01/22/2004	12/02/2011	STRUCTURE AND METHOD FOR LOW VSS RESISTANCE AND REDUCED DIBL IN A FLOATING GATE MEMORY CELL
835382	AF01232US	South Korea	04/29/2005	05/29/2008	BOND PAD STRUCTURE FOR COPPER METALLIZATION HAVING INCREASED RELIABILITY AND METHOD FOR FABRICATING SAME
7022382/2006	AF01240KR	South Korea	03/26/2004		ABORT CIRCUIT FOR MLC PROGRAMMING
7023673/2006	AF01241KR	South Korea	04/13/2004		NEW COMMAND FOR SECTOR PROTECTION
7023788/2006	AF01248	South Korea	04/21/2004		NON-VOLATILE SEMICONDUCTOR DEVICE AND METHOD FOR AUTOMATICALLY RECOVERING ERASE FAILURE IN THE DEVICE
850368	AF01274KR	South Korea	08/30/2004	07/29/2008	IMPROVEMENT OF THE REDUNDANT EFFICIENCY FOR THE SEMICONDUCTOR MEMORY
869862	AF01306KR	South Korea	06/30/2005	11/14/2008	SWITCHABLE MEMORY DIODE- A NEW MEMORY DEVICE
10-0923580	AF01329KR	South Korea	08/30/2004	10/19/2009	ERASE METHOD OF A NON-VOLATILE MEMORY DEVICE AND A NON-VOLATILE MEMORY DEVICE
903695	AF01338KR	South Korea	10/26/2004	06/11/2009	METHOD OF SETTING INFORMATION OF NON-VOLATILE MEMORY AND NON-VOLATILE MEMORY
928736	AF01361KR	South Korea	06/30/2005	11/19/2009	METHOD OF IMPROVING ERASE VOLTAGE DISTRIBUTION FOR A FLASH MEMORY ARRAY HAVING DUMMY WORDLINES
928737	AF01365KR	South Korea	04/29/2005	11/19/2009	FLASH MEMORY UNIT AND METHOD OF PROGRAMMING A FLASH MEMORY DEVICE
7019209/2006	AF01372	South Korea	02/19/2004		CURRENT-VOLTAGE CONVERTER CIRCUIT AND CONTROL METHOD THEREOF
7019211/2006	AF01376KR	South Korea	02/20/2004		A SEMICONDUCTOR MEMORY STORAGE DEVICE AND ITS REDUNDANT METHOD
838387	AF01379KR	South Korea	04/29/2005	06/09/2008	FLOATING GATE MEMORY CELL
7019210/2006	AF01380KR	South Korea	02/20/2004		A SEMICONDUCTOR MEMORY STORAGE DEVICE AND ITS CONTROL METHOD
873206	AF01383KR	South Korea	09/20/2005	12/03/2008	READ APPROACH FOR MULTI-LEVEL VIRTUAL GROUND MEMORY
10-1134691	AF01386KR	South Korea	02/11/2005	04/02/2012	ERASE ALGORITHM FOR MULTI-LEVEL BIT FLASH MEMORY
10-917690	AF01390KR	South Korea	12/20/2005	09/09/2009	MULTI-LEVEL ONO FLASH PROGRAM ALGORITHM FOR THRESHOLD WIDTH CONTROL
10-1176219	AF01402KR	South Korea	07/30/2004	08/16/2012	SEMICONDUCTOR DEVICE AND METHOD FOR GENERATING SENSE SIGNAL
10-1092012	AF01403KR	South Korea	07/30/2004	12/02/2011	METHODS AND SYSTEMS FOR HIGH WRITE PERFORMANCE IN MULTI-BIT FLASH MEMORY DEVICES
928738	AF01404KR	South Korea	08/30/2004	11/19/2009	APPARATUS FOR ADJUSTING RAMP GATE PGM CONDITION IN MANUAL PGM
7024784/2006	AF01416	South Korea	05/12/2004		IMPROVED NEGATIVE DECODING
7024209/2006	AF01417	South Korea	05/11/2004		HIGH SPEED BOOST OPERATION
7023674/2006	AF01422	South Korea	05/11/2004		DUMMY CELL ARRAY BETWEEN CORE AND REFERENCE ARRAYS
7024210/2006	AF01423	South Korea	05/11/2004		MULTI BIT PROGRAMMING FOR VIRTUAL GROUND ARRAY
7024939/2006	AF01425	South Korea	05/11/2004		IMPROVED APPARATUS FOR ADVANCED SECTOR PROTECTION (1)
7024211/2006	AF01427KR	South Korea	05/12/2004		IMPROVED SLATCH AND THE LAYOUT
870752	AF01432KR	South Korea	08/31/2004	11/20/2008	THE SEMICONDUCTOR MEMORY STORAGE DEVICE WHICH CARRIED THE NEGATIVE VOLTAGE GENERATING CIRCUIT
7014682/2007	AF01439KR	South Korea	11/30/2004		NON-VOLATILE SELECT GATE IN NAND FLASH MEMORY
10-1092013	AF01441KR	South Korea	07/29/2004	12/02/2011	METHOD FOR INITIALIZING NON-VOLATILE STORAGE DEVICE, AND NON-VOLATILE STORAGE DEVICE
7023675/2006	AF01443	South Korea	05/11/2004		CARRIER FOR SEMICONDUCTOR DEVICES TO BE STACKED AND FABRICATION METHOD OF THE DEVICE
10-0955720	AF01445KR	South Korea	12/28/2004	05/28/2010	SONOS WITH USE OF SWITCH GATE, WITHOUT BURIED DIFFUSION LAYER BITLINE
7024940/2006	AF01446	South Korea	05/20/2004		SEMICONDUCTOR CHIP ASSEMBLY AND FABRICATION METHOD OF THE SAME
10-1036669	AF01451KR	South Korea	04/24/2006	05/17/2011	THE FORMATION METHOD OF AN ARRAY SOURCE LINE IN NAND FLASH
10-1092011	AF01453KR	South Korea	02/11/2005	12/02/2011	METHOD AND SYSTEMS FOR HIGH WRITE PERFORMANCE IN MULTI-BIT FLASH MEMORY DEVICES
912517	AF01454KR	South Korea	11/30/2004	08/10/2009	NEW MEMORY CELL STRUCTURE IN WHICH HIGH-SPEED WRITING IS POSSIBLE
903694	AF01463KR	South Korea	09/30/2004	06/11/2009	SEMICONDUCTOR DEVICE AND DATA WRITING METHOD
903696	AF01468KR	South Korea	10/29/2004	06/11/2009	SEMICONDUCTOR DEVICE AND METHOD OF FABRICATING THE SAME
7030213/2007	AF01482	South Korea	05/26/2006		PAGE BUFFER ARCHITECTURE FOR PROGRAMMING, ERASING AND READING NANOSCALE RESISTIVE MEMORY DEVICES
912516	AF01500KR	South Korea	11/10/2005	08/10/2009	PROTECTION OF ACTIVE LAYERS OF MEMORY CELLS DURING PROCESSING OF OTHER ELEMENTS
903697	AF01645KR	South Korea	10/26/2004	06/11/2009	NON-VOLATILE MEMORY DEVICE

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10-0953991	AF01668KR	South Korea	09/08/2006	04/13/2010	HIGH PERFORMANCE FLASH MEMORY DEVICE CAPABLE OF HIGH DENSITY DATA STORAGE
926835	AF01669KR	South Korea	09/07/2006	11/06/2009	MULTI-BIT FLASH MEMORY DEVICE HAVING IMPROVED PROGRAM RATE
870753	AF01691KR	South Korea	12/24/2004	11/20/2008	SYNCHRONOUS STORAGE DEVICE AND CONTROLLING METHOD THEREOF
912518	AF01698KR	South Korea	01/27/2005	08/10/2009	A NON-VOLATILE MEMORY STORAGE DEVICE AND ITS CONTROL METHOD (PLACEMENT FORMATION (STRUCTURE) OF "AN INFORMATION MEMORY CELL OF OPERATION", AND ITS READ/WRITE APPARATUS, AND ITS CONTROL METHOD)
7021003/2007	AF01709KR	South Korea	03/22/2006		VARIABLE BREAKDOWN CHARACTERISTIC DIODE
10-1008371	AF01729KR	South Korea	05/30/2005	01/07/2011	SEMICONDUCTOR DEVICE AND METHOD FOR MANUFACTURING SAME
10-1000111	AF01730KR	South Korea	03/24/2006	12/03/2010	MULTI CHIP MODULE AND METHOD OF MANUFACTURE
7030212/2007	AF01741KR	South Korea	05/25/2006		READ-ONLY MEMORY ARRAY WITH DIELECTRIC BREAKDOWN PROGRAMMABILITY
7006407/2008	AF01746	South Korea	09/15/2005		METHOD FOR FORMING SPACERS BETWEEN BITLINES IN A VIRTUAL GROUND MEMORY ARRAY AND REALTED STRUCTURE
925255	AF01775KR	South Korea	04/26/2006	10/29/2009	RESISTIVE MEMORY DEVICE WITH IMPROVED DATA RETENTION AND REDUCED POWER
10-0940605	AF01777KR	South Korea	10/06/2006	01/28/2010	METHOD FOR MANUFACTURING A SEMICONDUCTOR COMPONENT USING A SACRIFICIAL MASKING STRUCTURE
10-0952718	AF01792KR	South Korea	06/28/2005	04/06/2010	MIRRORBIT DEVICE HAVING STI AND DUAL POLY FILMS
10-0935949	AF01802KR	South Korea	06/28/2005	12/30/2009	CASCODE AMPLIFIER FOR FAST READ
10-1078013	AF01810KR	South Korea	09/16/2008	10/24/2011	VERTICAL EEPROM DEVICE
10-0962702	AF01852KR	South Korea	07/07/2006	06/03/2010	INTEGRATED CIRCUIT TEST SOCKET
10-0964352	AF01853KR	South Korea	10/06/2006	06/09/2010	MEMORY ARRAY
1375797	AF01907KR	South Korea	04/05/2007	03/12/2014	MULTI MEDIA CARD WITH HIGH STORAGE CAPACITY
10-1074143	AF01954KR	South Korea	04/05/2007	10/10/2011	MEMORY CELL ARRAY WITH LOW RESISTANCE COMMON SOURCE AND HIGH CURRENT DRIVABILITY
10-1348374	AF02071KR	South Korea	05/21/2007	12/30/2013	MEMORY SYSTEM WITH SWITCH ELEMENT
7027179/2008	AF02136KR	South Korea	11/05/2008		REDUCTION OF LEAKAGE CURRENT AND PROGRAM DISTURBS IN FLASH MEMORY DEVICES
7026872/2008	AF02137KR	South Korea	11/18/2008		METHODS FOR ERASING AND PROGRAMMING MEMORY DEVICES
7027181/2008	AF02138KR	South Korea	04/05/2007		METHODS FOR ERASING MEMORY DEVICES AND MULTI-LEVEL PROGRAMMING MEMORY DEVICE
10-2008-7027073	AF02146KR	South Korea	11/04/2008		FLASH MEMORY PROGRAMMING AND VERIFICATION WIHT REDUCED LEAKAGE CURRENT
271566	AF02173KR	South Korea	06/30/1997	08/17/2000	MANUFACTURING METHOD OF SEMICONDUCTOR DEVICE
0551933	AF02175KR	South Korea	05/16/2000	02/07/2006	NONVOLATILE MEMORY ALLOW ENCRYPTED
0633752	AF02177KR	South Korea	02/28/2000	10/04/2006	MULTI-LEVEL NONVOLATILE MEMORY USING
0702922	AF02178KR	South Korea	11/24/2000	03/28/2007	NONVOLATILE SEMICONDUCTOR MEMORY DEVICE
727445	AF02180KR	South Korea	05/30/2000	06/05/2007	SEMICONDUCTOR MEMORY DEVICE AND
727446	AF02181KR	South Korea	05/30/2000	06/05/2007	SEMICONDUCTOR MEMORY DEVICE AND USING
0721295	AF02182KR	South Korea	08/18/2000	05/17/2007	NONVOLATILE MEMORY CIRCUIT STORAGE MULTI-
0674454	AF02183KR	South Korea	02/16/2000	01/19/2007	NONVOLATILE MEMORY
706849	AF02184KR	South Korea	07/17/2000	04/05/2007	NONVOLATILE MEMORY DEVICE AND
0597060	AF02185KR	South Korea	08/03/2000	06/28/2006	NONVOLATILE SEMICONDUCTOR MEMORY DEVICE
0698341	AF02186KR	South Korea	06/29/2000	03/15/2007	SEMICONDUCTOR MEMORY DEVICE
0676722	AF02188KR	South Korea	12/21/2000	01/25/2007	NONVOLATILE SEMICONDUCTOR MEMORY DEVICE
628901	AF02189KR	South Korea	01/03/2001	09/20/2006	MANUFACTURING METHOD OF NONVOLATILE
0744586	AF02191KR	South Korea	09/28/2001	07/25/2007	NONVOLATILE SEMICONDUCTOR DEVICE AND
10-0864860	AF02192KR	South Korea	02/06/2002	10/16/2008	SEMICONDUCTOR MEMORY AND MANUFACTURING
0629193	AF02193KR	South Korea	05/25/2001	09/21/2006	NONVOLATILE SEMICONDUCTOR DEVICE
739084	AF02195KR	South Korea	09/19/2001	07/06/2007	SEMICONDUCTOR DEVICE AND MANUFACTURING
728141	AF02198KR	South Korea	09/05/2001	06/07/2007	SEMICONDUCTOR MEMORY DEVICE AND DRIVING
0873656	AF02200KR	South Korea	04/18/2002	12/05/2008	MEMORY CONTROLLER FOR MULTI LEVEL
0874175	AF02208KR	South Korea	04/09/2003	12/09/2008	NONVOLATILE SEMICONDUCTOR MEMORY AND
0958901	AF02209KR	South Korea	02/19/2003	05/12/2010	NONVOLATILE SEMICONDUCTOR DEVICE
0829034	AF02212KR	South Korea	05/20/2003	05/06/2008	NONVOLATILE SEMICONDUCTOR MEMORY DEVICE
10-1010982	AF02214KR	South Korea	03/21/2003	01/19/2011	SEMICONDUCTOR MEMORY DEVICE
0942487	AF02222KR	South Korea	08/12/2003	02/08/2010	NONVOLATILE SEMICONDUCTOR MEMORY
660459	AF02223KR	South Korea	02/24/2003	12/15/2006	VOLTAGE DETECTION CIRCUIT, SEMICONDUCTOR DEVICE, METHOD FOR CONTROLLING VOLTAGE DETECTION CIRCUIT
0642104	AF02224KR	South Korea	02/18/2003	10/27/2006	SEMICONDUCTOR MEMORY DEVICE AND DATA RESD
0704596	AF02226KR	South Korea	02/27/2003	04/02/2007	NONVOLATILE SEMICONDUCTOR MEMORY
0597063	AF02229KR	South Korea	02/28/2003	06/28/2006	FLASH MEMORY AND MEMORY CONTROL
0793221	AF02230KR	South Korea	12/17/2003	01/03/2008	SEMICONDUCTOR DEVICE AND TEST METHOD
0774275	AF02232KR	South Korea	03/11/2003	11/01/2007	MEMORY DEVICE
757290	AF02233KR	South Korea	12/17/2003	09/04/2007	NONVOLATILE MEMORY AND METHOD AND WRITE METHOD OF THE SAME
0627087	AF02238KR	South Korea	04/24/2003	09/15/2006	NONVOLATILE SEMICONDUCTOR MEMORY
628827	AF02241KR	South Korea	06/06/2003	09/20/2006	SEMICONDUCTOR MEMORY DEVICE AND SELECT
7025665/2009	AF02453KR	South Korea	05/09/2008		SELF ALIGNED NARROW STORAGE ELEMENTS FOR ADVANCED MEMORY DEVICE
10-1205589	AF02465KR	South Korea	01/18/2010	11/21/2012	TERMINATE CYCLE FOR BURST WRITE OPERATION
675072	AF02649KR	South Korea	11/03/2000	01/22/2007	NONVOLATILE SEMICONDUCTOR MEMORY DEVICE
10-2013-7005998	AF03209KR	South Korea	08/10/2011		STITCH BUMP STACKING DESIGN FOR OVERALL PACKAGE SIZE REDUCTION FOR MULTIPLE STACK
10-2013-7002452	AF03219KR	South Korea	06/29/2011		METHOD AND SYSTEM FOR THIN MULTI CHIP STACK PACKAGE WITH FILM ON WIRE AND COPPER WIRE
1018371	AF04009US	South Korea	08/28/2003	02/22/2011	SEMICONDUCTOR MEMORY DEVICE AND MANUFACTURING METHOD THEREOF

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10-2011-7010635	AF04027KR	South Korea	10/07/2009		REAL-TIME DATA PATTERN ANALYSIS SYSTEM AND METHOD OF OPERATION THEREOF
10-2014-7020294	AF04035KR	South Korea	12/18/2012		ACOUSTIC PROCESSING UNIT INTERFACE
10-2014-7020295	AF04036KR	South Korea	12/18/2012		ARITHMETIC LOGIC UNIT ARCHITECTURE
718903	AF04052CN	South Korea	08/29/2003	05/10/2007	SEMICONDUCTOR MEMORY DEVICE
397048	B002KR	South Korea	08/30/1995	08/23/2003	A SELF-ALIGNED BURIED CHANNEL/JUNCTION STACKED GATE FLASH MEMORY CELL
392900	B015KR	South Korea	09/29/1995	07/15/2003	LAYERED LOW DIELECTRIC CONSTANT TECHNOLOGY
383392	B047KR	South Korea	11/22/1995	04/25/2003	NOVEL PROCESSING TECHNIQUES FOR ACHIEVING PRODUCTION WORTHY LOW DIELECTRIC LOW INTERCONNECT RESISTANCE AND HIGH PERFORMANCE
418430	B111KR	South Korea	06/21/1996	01/31/2004	PROCESS FOR SELF-ALIGNED SOURCE FOR HIGH DENSITY MEMORY
445197	B128KR	South Korea	08/30/1996	08/10/2004	A FLASH EEPROM MEMORY WITH SEPARATE REFERENCE ARRAY
391117	B132KR	South Korea	06/18/1996	06/30/2003	CHANNEL HOT CARRIER PAGE WRITE
440745	B255KR	South Korea	08/08/1996	07/07/2004	POWER SUPPLY INDEPENDENT CURRENT SOURCE FOR FLASH EPROM ERASE
433686	B260KR	South Korea	07/19/1996	05/19/2004	A NEW PROGRAM ALGORITHM FOR LOW VOLTAGE (3V) SINGLE POWER SUPPLY FLASH MEMORIES
437651	B277KR	South Korea	03/25/1997	06/16/2004	A NOVEL PROCESS FOR RELIABLE ULTRATHIN OXYNITRIDE FORMATION
578584	C061296KR	South Korea	01/23/1998	05/03/2006	HIGH VOLTAGE CMOS LEVEL SHIFTER
494377	C141496KR	South Korea	04/10/1998	05/31/2005	A DUAL SOURCE SIDE POLYSILICON SELECT GATE STRUCTURE AND PROGRAMMING METHOD UTILIZING SINGLE TUNNEL OXIDE FOR NAND ARRAY FLASH MEMORY
7007909/1999	C144496KR	South Korea	02/05/1998		HIGH VOLTAGE NMOS PASS GATE FOR INTEGRATED CIRCUIT WITH HIGH VOLTAGE GENERATOR AND FLASH NON-VOLATILE MEMORY DEVICE HAVING THE PASS GATE
472741	C196596KR	South Korea	11/13/1997	02/11/2005	BANK ARCHITECTURE FOR A NON-VOLATILE MEMORY ENABLING SIMULTANEOUS READING AND WRITING
554708	C369297KR	South Korea	12/18/1998	02/16/2006	BIASING METHOD AND STRUCTURE FOR REDUCING BAND-TO-BAND AND/OR AVALANCHE CURRENTS DURING THE ERASE OF FLASH MEMORY DEVICE
505857	C526397KR	South Korea	08/25/1998	07/26/2005	REDUCTION OF CHARGE LOSS IN NONVOLATILE MEMORY CELLS BY PHOSPHOROUS IMPLANTATION INTO PECVD NITRIDE/OXYNITRIDE FILMS
675962	C608497KR	South Korea	05/20/1999	01/23/2007	SHALLOW TRENCH ISOLATION FILLED WITH THERMAL OXIDE
655942	C614497KR	South Korea	03/02/1999	12/04/2006	STEPPER ALIGNMENT MARK FORMATION WITH DUAL FIELD OXIDE PROCESS
554707	C627497KR	South Korea	12/18/1998	02/16/2006	METHODS AND ARRANGEMENTS FOR IMPROVED FORMATION OF CONTROL AND FLOATING GATES IN NON-VOLATILE MEMORY SEMICONDUCTOR DEVICES
773994	C656497KR	South Korea	08/31/2000	10/31/2007	TUNGSTEN GATE MOS TRANSISTOR AND MEMORY CELL AND METHOD OF MAKING SAME
727617	C695497KR	South Korea	06/29/2000	06/05/2007	THIN FLOATING GATE AND CONDUCTIVE SELECT GATE IN SITU
578581	C715497KR	South Korea	09/21/1999	05/03/2006	WORDLINE DRIVER FOR FLASH ELECTRICALLY ERASABLE PROGRAMMABLE READ-ONLY MEMORY (EEPROM)
489421	C725497KR	South Korea	08/01/2000	05/03/2005	CIRCUIT IMPLEMENTATION TO QUENCH BIT LINE LEAKAGE CURRENT IN PROGRAM AND AUTO PROGRAM DISTURB MODE IN FLASH EPROM USING RESISTOR SOURCE LOAD
604457	D016KR	South Korea	10/05/1999	07/18/2006	BIT LINE BIASING METHOD TO ELIMINATE PROGRAM DISTURBANCE IN A NON-VOLATILE MEMORY DEVICE AND MEMORY DEVICE EMPLOYING THE SAME
564378	D138KR	South Korea	10/05/1999	03/20/2006	SCHEME FOR PAGE ERASE AND ERASE VERIFY IN A NON-VOLATILE MEMORY ARRAY
604462	D140KR	South Korea	08/03/1999	07/18/2006	VT REFERENCE VOLTAGE FOR EXTREMELY LOW POWER-SUPPLY
544756	D168KR	South Korea	08/16/1999	01/12/2006	SIMULTANEOUS OPERATION FLASH MEMORY DEVICE WITH A FLEXIBLE DEVICE WITH A FLEXIBLE BANK PARTITION ARCHITECTURE
586930	D169KR	South Korea	08/16/1999	05/29/2006	METHOD OF MAKING FLEXIBLY PARTITIONED METAL LINE SEGMENTS FOR A SIMULTANEOUS OPERATION FLASH MEMORY DEVICE WITH A FLEXIBLE BANK PARTITION ARCHITECTURE
544755	D170KR	South Korea	08/16/1999	01/12/2006	MEMORY ADDRESS DECODING CIRCUIT FOR A SIMULTANEOUS OPERATION FLASH MEMORY DEVICE WITH A FLEXIBLE BANK PARTITION ARCHITECTURE
645572	D802KR	South Korea	10/27/1999	11/06/2006	METHOD FOR IMPROVING ELECTROSTATIC DISCHARGE (ESD) ROBUSTNESS
578582	D832KR	South Korea	05/05/2000	05/03/2006	RAMPED OR STEPPED GATE CHANNEL ERASE FOR FLASH MEMORY APPLICATION
639827	D833KR	South Korea	08/29/2000	10/23/2006	1 TRANSISTOR FOR EEPROM APPLICATION
743694	D838KR	South Korea	10/24/2000	07/23/2007	SOLID-SOURCE DOPING FOR SOURCE/DRAIN OF FLASH MEMORY
761091	D844KR	South Korea	07/14/2000	09/17/2007	RAMPED GATE TECHNIQUE FOR SOFT PROGRAMMING TO TIGHTEN THE VT DISTRIBUTION
655944	D853KR	South Korea	12/05/2000	12/04/2006	METHOD TO PROVIDE A REDUCED CONSTANT E-FIELD DURING ERASE OF EEPROMS FOR RELIABILITY IMPROVEMENT
724154	D877KR	South Korea	07/17/2000	05/25/2007	INTEGRATED CIRCUIT HAVING INCREASED GATE COUPLING CAPACITANCE
717409	D894KR	South Korea	09/29/2000	05/04/2007	METHOD OF MANUFACTURING A SEMICONDUCTOR DEVICE WITH REDUCED ARC LOSS IN PERIPHERAL CIRCUITRY REGION
717411	D958KR	South Korea	12/13/2000	05/04/2007	NOVEL NITRIDATION BARRIERS FOR NITRIDATED TUNNEL OXIDE FOR CIRCUITRY FOR FLASH TECHNOLOGY AND FOR LOCOS/STI ISOLATION

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697353	DA01016KR	South Korea	07/14/2000	03/13/2007	METHOD FOR PROVIDING A DOPANT LEVEL FOR POLYSILICON FOR FLASH MEMORY DEVICES
724153	E0197KR	South Korea	06/29/2000	05/25/2007	NEW METHOD OF FORMING SELECT GATE TO IMPROVE RELIABILITY AND PERFORMANCE FOR NAND-TYPE FLASH MEMORY DEVICES
629987	E0251KR	South Korea	07/14/2000	09/22/2006	FLASH MEMORY ARCHITECTURE EMPLOYING THREE LAYER METAL INTERCONNECT
658215	E0264KR	South Korea	02/07/2001	12/08/2006	TRIMMING METHOD FOR WORDLINE BOOSTER TO MINIMIZE PROCESS VARIATION OF BOOSTED WORDLINE VOLTAGE
824442	E0370KR	South Korea	03/12/2001	04/16/2008	A DUAL SPACER PROCESS NON-VOLATILE MEMORY DEVICES
915450	E0462KR	South Korea	05/21/2001	08/27/2009	DUAL PORTED CAMS FOR SIMULTANEOUS OPERATION FLASH MEMORY
743695	E1030KR	South Korea	02/07/2001	07/23/2007	TEMPERATURE COMPENSATED BIAS GENERATOR
788491	F0257KR	South Korea	08/07/2001	12/17/2007	METHOD AND SYSTEM FOR EMBEDDED CHIP ERASE VERIFICATION
7010943/2004	F0258	South Korea	12/17/2002		METHOD AND APPARATUS FOR SOFT PROGRAM VERIFICATION IN A MEMORY DEVICE
928735	F0262KR	South Korea	12/17/2002	11/19/2009	METHOD AND APPARATUS FOR SOFT PROGRAM VERIFICATION IN A MEMORY DEVICE
7011031/2004	F0272	South Korea	12/17/2002		CHARGE INJECTION
7004809/2004	F0283	South Korea	09/27/2002		SALICIDED GATE FOR VIRTUAL GROUND ARRAYS
810709	F0499KR	South Korea	08/06/2001	02/28/2008	A SOURCE SIDE BORON IMPLANTING AND DIFFUSING DEVICE ARCHITECTURE FOR DEEP SUBSTANCE 0.18UM FLASH MEMORY TECHNOLOGIES
838382	F0932KR	South Korea	08/06/2001	06/09/2008	SOURCE SIDE BORON IMPLANT AND DRAIN SIDE MDD IMPLANT FOR DEEP SUB 0.18 MICRON FLASH MEMORY
10-1014036	F1104KR	South Korea	11/26/2003	02/01/2011	SEMICONDUCTOR MEMORY DEVICE AND METHOD OF FABRICATING THE SAME
1051987	F1114KR	South Korea	09/19/2003	07/20/2011	SEMICONDUCTOR DEVICE AND METHOD FOR MANUFACTURING THE SAME
10-0185214	FMA13-0011JP	South Korea	12/26/1994	12/23/1998	TRANSIMPEDANCE AMPLIFIER
10-0148528	FMA13-0014JP	South Korea	03/21/1995	05/27/1998	MICROCONTROLLER
10-0161308	FMA13-0015JP DIV	South Korea	05/27/1994	08/24/1998	POWER SOURCE CONNECTING CIRCUIT AND SWITCH IC FOR POWER SUPPLY LINE
199958	FMA13-0017JP	South Korea	06/07/1995	03/08/1999	SEMICONDUCTOR MEMORY DEVICE
179998	FMA13-0022JP	South Korea	08/30/1995	11/30/1998	CLOCK SIGNAL GENERATOR
1002963680000	FMA13-0024JP DIV2	South Korea	10/18/1995	05/09/2001	INFORMATION PROCESSING APPARATUS
873880	FMA13-00305KR	South Korea	09/14/2006	12/08/2008	IMAGE PROCESSING APPARATUS AND METHOD FOR IMAGE RESIZING MATCHING DATA SUPPLY SPEED
932723	FMA13-00312KR	South Korea	10/26/2007	12/10/2009	POWER SUPPLY CIRCUIT, POWER SUPPLY CONTROL CIRCUIT, AND POWER SUPPLY CONTROL METHOD
1004303	FMA13-00313KR	South Korea	05/04/2007	12/21/2010	CONTROLLER FOR DC-DC CONVERTER
1036867	FMA13-00314KR	South Korea	07/10/2007	05/18/2011	DC-DC CONVERTER
948328	FMA13-00315KR	South Korea	09/27/2007	03/11/2010	CONTROL CIRCUIT OF SYNCHRONOUS RECTIFICATION TYPE POWER SUPPLY UNIT, SYNCHRONOUS RECTIFICATION TYPE POWER SUPPLY UNIT AND CONTROL METHOD THEREOF
955017	FMA13-00317KR	South Korea	05/14/2007	04/20/2010	DC-DC CONVERTER, CONTROL CIRCUIT FOR DC-DC CONVERTER, AND CONTROL METHOD FOR DC-DC CONVERTER
937180	FMA13-00319KR	South Korea	08/20/2007	01/08/2010	CONTROL CIRCUIT OF POWER SUPPLY UNIT, POWER SUPPLY UNIT AND CONTROL METHOD THEREOF
983069	FMA13-00320KR	South Korea	01/22/2008	09/13/2010	DC-DC CONVERTER, DC-DC CONVERTER CONTROL CIRCUIT, DC-DC CONVERTER CONTROL METHOD
968802	FMA13-00321KR	South Korea	01/29/2008	07/01/2010	POWER CIRCUIT, POWER CONTROLLING CIRCUIT, AND POWER CONTROLLING METHOD
964857	FMA13-00322KR	South Korea	01/25/2008	06/11/2010	FRACTIONAL FREQUENCY DIVIDER PLL DEVICE AND CONTROL METHOD THEREOF
927882	FMA13-00323KR	South Korea	09/11/2007	11/13/2009	METHOD AND CIRCUIT FOR CONTROLLING DC-DC CONVERTER
1164308	FMA13-00335KR	South Korea	03/14/2007	07/03/2012	OUTPUT CIRCUIT
935840	FMA13-00344JP DIV	South Korea	09/04/2003	12/30/2009	CLOCK GENERATOR CIRCUIT, PLL AND CLOCK GENERATION METHOD
1068182	FMA13-00347KR	South Korea	01/25/2008	09/21/2011	DETECTION CIRCUIT AND POWER SUPPLY SYSTEM
1086104	FMA13-00350KR	South Korea	01/29/2008	11/16/2011	DETECTION CIRCUIT AND POWER SUPPLY SYSTEM
1072337	FMA13-00353JP	South Korea	11/02/2007	10/05/2011	SIGNAL PROCESSOR UNIT AND COMMUNICATION DEVICE
100893704	FMA13-00357JP DIV	South Korea	06/16/2006		STEP-UP/STEP-DOWN TYPE DC-DC CONVERTER, AND CONTROL CIRCUIT AND CONTROL METHOD OF THE SAME
1030100	FMA13-00375KR	South Korea	05/18/2009	04/12/2011	LINE PLOTTING METHOD
674457	FMA13-00381JP DIV	South Korea	04/23/2004	01/19/2007	OPERATIONAL AMPLIFIER, LINE DRIVER, AND LIQUID CRYSTAL DISPLAY DEVICE
1002700330000	FMA13-0038JP	South Korea	01/29/1997	07/27/2000	CHARGING APPARATUS AND CURRENT/VOLTAGE DETECTOR FOR USE THEREIN
1077190	FMA13-00424KR	South Korea	11/19/2009	10/20/2011	SEMICONDUCTOR MEMORY AND METHOD AND SYSTEM FOR ACTUATING SEMICONDUCTOR MEMORY
1002113420000	FMA13-0042JP	South Korea	01/29/1997	05/03/1999	OSCILLATOR AND PLL CIRCUIT EMPLOYING SAME
1002838410000	FMA13-0043JP DIV	South Korea	11/29/1996	12/13/2000	SEMICONDUCTOR INTEGRATED CIRCUIT
777196	FMA13-00449JP DIV	South Korea	02/08/2002	11/12/2007	SEMICONDUCTOR INTEGRATED CIRCUIT DEVICE
647095	FMA13-00451JP	South Korea	11/18/1999	11/10/2006	SELECTOR CIRCUIT, AND SEMICONDUCTOR DEVICE AND LIQUID CRYSTAL DISPLAY DEVICE COMPRISING THE SAME
253726	FMA13-0048JP	South Korea	08/22/1997	01/26/2000	A VOLTAGE BOOSTER CIRCUIT AND A VOLTAGE DROP CIRCUIT
362762	FMA13-0051JP	South Korea	05/28/1997	11/15/2002	LEVEL CONVERTER AND SEMICONDUCTOR DEVICE
806157	FMA13-00533JP DIV	South Korea	06/13/2006	02/15/2008	POWER SOURCE CONTROL CIRCUIT, POWER SUPPLY DEVICE, AND CONTROL METHOD FOR THE SAME
10-0652852	FMA13-00542JP	South Korea	03/21/2000	11/24/2006	RESET CIRCUIT AND PLL FREQUENCY SYNTHESIZER

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801513	FMA13-00543KR	South Korea	11/21/2002	01/30/2008	SEMICONDUCTOR DEVICE EQUIPPED WITH TRANSFER CIRCUIT FOR CASCADE CONNECTION
2002-0015535	FMA13-00544KR	South Korea	03/22/2002		MODE SWITCHING METHOD FOR PLL CIRCUIT AND MODE CONTROL CIRCUIT FOR THE PLL CIRCUIT
949131	FMA13-00547JP	South Korea	12/02/2003	03/16/2010	SEMICONDUCTOR INTEGRATED CIRCUIT
894667	FMA13-00551JP	South Korea	12/20/2002	04/16/2009	BIPOLAR SUPPLY VOLTAGE GENERATOR AND SEMICONDUCTOR DEVICE FOR THE SAME
793678	FMA13-00556JP	South Korea	06/16/2006	01/04/2008	DC-DC CONVERTER CONTROL CIRCUIT, DC-DC CONVERTER, AND DC-DC CONVERTER CONTROL METHOD
0905983	FMA13-00561JP	South Korea	09/19/2006	06/26/2009	CIRCUIT AND METHOD FOR CONTROLLING DC-DC CONVERTER
793677	FMA13-00562JP	South Korea	06/15/2006	01/04/2008	CURRENT-CONTROLLED DC-DC CONVERTER CONTROL CIRCUIT, CURRENT-CONTROLLED DC-DC CONVERTER, AND METHOD FOR CONTROLLING CURRENT-CONTROLLED DC-DC CONVERTER
10-0895252	FMA13-00563KR	South Korea	10/20/2006	04/21/2009	CONTROL CIRCUIT OF POWER SUPPLY AND CONTROL METHOD OF THE POWER SUPPLY
902809	FMA13-00564KR	South Korea	08/30/2006	06/08/2009	ELECTRONIC DEVICE INCORPORATING SYSTEM POWER SUPPLY UNIT AND METHOD FOR SUPPLYING POWER SUPPLY VOLTAGE
963309	FMA13-00565JP	South Korea	09/13/2007	06/04/2010	POWER SUPPLY SYSTEM AND METHOD FOR CONTROLLING OUTPUT VOLTAGE
786162	FMA13-00566JP	South Korea	10/18/2006	12/10/2007	DC-DC CONVERTER CONTROL CIRCUIT, DC-DC CONVERTER, POWER SUPPLY UNIT, AND DC-DC CONVERTER CONTROL METHOD
895472	FMA13-00569JP	South Korea	09/27/2006	04/22/2009	CONTROL CIRCUIT OF POWER SUPPLY, POWER SUPPLY AND CONTROL METHOD THEREOF
1073595	FMA13-00573KR	South Korea	01/28/2008	10/07/2011	POWER CIRCUIT, POWER CONTROL CIRCUIT AND POWER CONTROL METHOD
100381121	FMA13-0063JP-3	South Korea	11/18/1997	04/08/2003	SKEW-REDUCTION CIRCUIT
1003215950000	FMA13-0065JP	South Korea	01/12/1999	01/09/2002	NONVOLATILE SEMICONDUCTOR MEMORY DEVICE AND METHOD OF REPRODUCING DATA OF NONVOLATILE SEMICONDUCTOR MEMORY DEVICE
1999-0008821	FMA13-0067JP	South Korea	07/31/1998		MEMORY DEVICE
1003325100000	FMA13-0069JP	South Korea	08/19/1998	04/01/2002	SEMICONDUCTOR DEVICE
360704	FMA13-0070JP	South Korea	12/28/1998	10/30/2002	OUTPUT CIRCUIT, LEVEL CONVERTER CIRCUIT, LOGIC CIRCUIT AND OPERATIONAL AMP CIRCUIT
1003164280000	FMA13-0072JP DIV	South Korea	08/06/1999	11/21/2001	VOLTAGE SELECTOR AND A D/A CONVERTER, ESPECIALLY CAPABLE OF REDUCING RESPONSE TIME OF OUTPUT
586750	FMA13-0073JP	South Korea	06/30/1999	05/29/2006	VOLTAGE BOOSTING CIRCUIT
335748	FMA13-0075JP	South Korea	05/27/1999	04/24/2002	LOCAL OSCILLATION CIRCUIT AND A RECEIVING CIRCUIT INCLUDING THE LOCAL OSCILLATION CIRCUIT
100334044	FMA13-0078JP-1	South Korea	04/12/1999	04/11/2002	SYSTEM LSI HAVING COMMUNICATION FUNCTION
1998-0062701	FMA13-0080KR	South Korea	12/31/1998		DRIVER FOR LIQUID CRYSTAL DISPLAY PANEL
600542	FMA13-0082KR	South Korea	12/23/1999	07/06/2006	SEMICONDUCTOR DEVICE HAVING CURRENT AUXILIARY CIRCUIT FOR OUTPUT CIRCUIT
594409	FMA13-0087JP	South Korea	12/22/1999	06/21/2006	SEMICONDUCTOR MEMORY AND OUTPUT SIGNAL CONTROL METHOD AND CIRCUIT IN SEMICONDUCTOR MEMORY
722747	FMA13-0089JP-1	South Korea	03/29/2000	05/22/2007	COMPARATOR
629196	FMA13-0089KR	South Korea	06/28/2006	09/21/2006	VOLTAGE CONTROLLED OSCILLATOR CIRCUIT
614471	FMA13-0091JP	South Korea	02/11/2000	08/14/2006	LCD PANEL DRIVING CIRCUIT
768050	FMA13-0093JP DIV	South Korea	04/17/2002	10/11/2007	FREQUENCY MEASUREMENT CIRCUIT
596612	FMA13-0096KR	South Korea	03/30/2000	06/27/2006	SEMICONDUCTOR INTEGRATED CIRCUIT DEVICE AND ELECTRONIC CIRCUIT
254478	FMA13-0102JP DIV4	South Korea	09/01/1995	02/02/2000	CHARGING AND DISCHARGING CONTROL DEVICE
264086	FMA13-0102KR	South Korea	10/21/1999	05/25/2000	CHARGING-AND-DISCHARGING CONTROL DEVICE AND CONSTANT-VOLTAGE-AND-CONSTANT-CURRENT CONTROL CIRCUIT
303927	FMA13-0102KR DIV1	South Korea	10/21/1999	07/16/2001	CHARGE/DISCHARGE CONTROLLER AND CONSTANT-VOLTAGE CONSTANT-CURRENT CONTROL CIRCUIT
297608	FMA13-0102KR DIV2	South Korea	10/21/1999	05/23/2001	CHARGE/DISCHARGE CONTROLLER AND CONSTANT-VOLTAGE CONSTANT-CURRENT CONTROL CIRCUIT
647111	FMA13-0104JP	South Korea	12/20/2000	11/10/2006	DATA DRIVER AND DISPLAY DEVICE USING IT
100746933	FMA13-0105JP-1	South Korea	01/16/2001	08/01/2007	SEMICONDUCTOR INTEGRATED CIRCUIT FOR DRIVING LIQUID CRYSTAL PANEL
786167	FMA13-0105KR	South Korea	03/28/2007	12/10/2007	A GRADATION WIRING FOR DISPLAY, A DRIVER FOR A LIQUID CRYSTAL DISPLAY, AND A STRESS TEST METHOD FOR THE SAME DRIVER
774266	FMA13-0108JP	South Korea	02/15/2001	11/01/2007	PLL SEMICONDUCTOR DEVICE WITH TESTABILITY, AND METHOD AND APPARATUS FOR TESTING SAME
734337	FMA13-0110JP	South Korea	04/13/2001	06/26/2007	DOT-INVERSION DATA DRIVER FOR LIQUID CRYSTAL DISPLAY DEVICE
703643	FMA13-0122JP DIV	South Korea	03/06/2002	03/29/2007	DC-DC CONVERTER, POWER SUPPLY CIRCUIT, METHOD FOR CONTROLLING DC-DC CONVERTER, AND METHOD FOR CONTROLLING POWER SUPPLY CIRCUIT
783445	FMA13-0129JP	South Korea	04/12/2002	12/03/2007	OPERATIONAL AMPLIFIER HAVING OFFSET CANCEL FUNCTION
689738	FMA13-0132KR	South Korea	02/19/2002	02/26/2007	NONVOLATILE SEMICONDUCTOR MEMORY
844052	FMA13-0133JP	South Korea	04/12/2002	06/30/2008	REGULATOR CIRCUIT AND CONTROL METHOD THEREOF
840633	FMA13-0136JP DIV	South Korea	05/28/2002	06/17/2008	DC/DC CONVERTER CONTROL CIRCUIT AND DC/DC CONVERTER SYSTEM
803184	FMA13-0147JP	South Korea	01/09/2003	02/04/2008	INTEGRATED CIRCUIT, LIQUID CRYSTAL DISPLAY APPARATUS, AND SIGNAL TRANSMISSION SYSTEM
0933965	FMA13-0150KR	South Korea	05/26/2003	12/17/2009	VOLTAGE-CONTROLLED OSCILLATOR, PLL CIRCUIT INCLUDING VOLTAGE CONTROLLED OSCILLATOR
888412	FMA13-0151JP	South Korea	02/07/2003	03/05/2009	DC-DC CONVERTER, DUTY-RATIO SETTING CIRCUIT AND ELECTRIC APPLIANCE USING THEM

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884012	FMA13-0164JP	South Korea	05/21/2003	02/10/2009	SEMICONDUCTOR DEVICE, DISPLAY DEVICE, AND SIGNAL TRANSMISSION SYSTEM
891475	FMA13-0169JP	South Korea	05/15/2003	03/26/2009	FREQUENCY SYNTHESIZER CIRCUIT
963310	FMA13-0171JP	South Korea	08/14/2003	06/04/2010	CONTROL CIRCUIT FOR DC/DC CONVERT
101077745	FMA13-0177JP-4	South Korea	12/24/2003	10/21/2011	SPREAD SPECTRUM CLOCK GENERATION CIRCUIT FOR GENERATING CLOCK SIGNAL CHANGED ACCORDING TO PERIOD, JITTER GENERATION CIRCUIT, AND SEMICONDUCTOR DEVICE
670722	FMA13-0178JP	South Korea	05/12/2005	01/11/2007	MOS VARIABLE CAPACITIVE DEVICE
647504	FMA13-0200JP	South Korea	07/08/2004	11/13/2006	SEMICONDUCTOR INTEGRATED CIRCUIT DEVICE
665638	FMA13-0211JP	South Korea	05/02/2005	12/29/2006	CAPACITANCE DIFFERENCE DETECTING CIRCUIT AND MEMS SENSOR
901400	FMA13-0217JP	South Korea	02/28/2007	06/01/2009	PLL FREQUENCY SYNTHESIZER
616352	FMA13-0224JP	South Korea	02/04/2005	08/21/2006	SEMICONDUCTOR DEVICE
630855	FMA13-0226JP	South Korea	11/23/2004	09/26/2006	CIRCUIT AND METHOD FOR CONTROLLING DC-DC CONVERTER
637106	FMA13-0228JP	South Korea	11/22/2004	10/16/2006	CONTROL CIRCUIT OF DC-DC CONVERTER AND ITS CONTROL METHOD
756613	FMA13-0236JP	South Korea	06/09/2005	09/03/2007	ANALOG FILTER CIRCUIT AND ADJUSTMENT METHOD THEREOF
2005-0041754	FMA13-0238KR	South Korea	05/18/2005		SPREAD SPECTRUM CLOCK GENERATION CIRCUIT AND A METHOD OF CONTROLLING THEREOF
848843	FMA13-0238KR DIV	South Korea	08/13/2007	07/22/2008	SPREAD SPECTRUM CLOCK GENERATION CIRCUIT AND A METHOD OF CONTROLLING THEREOF
766352	FMA13-0243JP	South Korea	07/29/2005	10/05/2007	AMPLIFIER CIRCUIT AND CONTROL METHOD THEREOF
804567	FMA13-0256JP	South Korea	02/24/2006	02/12/2008	SEMICONDUCTOR DEVICE
725475	FMA13-0257JP	South Korea	02/27/2006	05/30/2007	DC-DC CONVERTER AND ITS CONTROL METHOD, AND SWITCHING REGULATOR AND ITS CONTROL METHOD
660958	FMA13-0260JP	South Korea	12/07/2005	12/18/2006	SUCCESSIVE APPROXIMATION A/D CONVERTER
698864	FMA13-0265JP	South Korea	01/06/2006	03/16/2007	CLOCK GENERATION CIRCUIT AND CLOCK GENERATION METHOD
758191	FMA13-0266JP	South Korea	11/28/2005	09/06/2007	CLOCK GENERATING CIRCUIT AND CLOCK GENERATING METHOD
744592	FMA13-0273JP	South Korea	02/17/2006	07/25/2007	DC-DC CONVERTER, DC-DC CONVERTER CONTROL CIRCUIT, AND DC-DC CONVERTER CONTROL METHOD
737793	FMA13-0276JP	South Korea	04/13/2006	07/04/2007	CONTROLLER AND CONTROL METHOD FOR DC-DC CONVERTER
725476	FMA13-0278JP	South Korea	03/21/2006	05/30/2007	STEP-UP TYPE DC-DC CONVERTER AND METHOD FOR CONTROLLING STEP-UP TYPE DC-DC CONVERTER
718905	FMA13-0280JP	South Korea	04/07/2006	05/10/2007	CONTROL CIRCUIT AND CONTROL METHOD FOR DC-DC CONVERTER
769869	FMA13-0281JP	South Korea	05/03/2006	10/18/2007	CONTROL CIRCUIT FOR DC-DC CONVERTER AND CONTROL METHOD THEREFOR
769102	FMA13-0282KR	South Korea	09/28/2006	10/16/2007	NON-VOLATILE SEMICONDUCTOR MEMORY DEVICE, ERASE METHOD FOR SAME, AND TEST METHOD FOR SAME
732141	FMA13-0288KR	South Korea	08/29/2006	06/19/2007	PULSE WIDTH MODULATION CIRCUIT
742581	FMA13-0289KR	South Korea	08/30/2006	07/19/2007	PRESALER AND BUFFER
785721	FMA13-0299JP	South Korea	08/14/2006	12/07/2007	DELAY CONTROL CIRCUIT
776937	FMA13-0300KR	South Korea	08/08/2006	11/09/2007	COMMON INPUT/OUTPUT TERMINAL CONTROL CIRCUIT
805179	FMA13-0302JP DIV	South Korea	06/07/2006	02/13/2008	DC-DC CONVERTER AND CONTROL CIRCUIT FOR DC-DC CONVERTER
924377	G0063KR	South Korea	11/14/2001	10/23/2009	ACCURATE VERIFY APPARATUS AND METHOD FOR NOR FLASH MEMORY CELLS IN THE PRESENCE OF HIGH COLUMN LEAKAGE
7014898/2003	G0259KR	South Korea	02/19/2002		FLASH MEMORY DEVICE WITH INCREASE OF EFFICIENCY DURING AN APDE (AUTOMATIC PROGRAM DISTURB AFTER ERASE) PROCESS
10-0941745	G0391KR	South Korea	06/10/2003	02/03/2010	BUILT-IN-SELF-TEST (BIST) OF FLASH MEMORY CELLS AND IMPLEMENTATION OF BIST INTERFACE
10-0951463	G0689KR	South Korea	12/11/2002	03/30/2010	SHALLOW TRENCH ISOLATION APPROACH FOR IMPROVED STI CORNER ROUNDING
7010299/2005	G0730KR	South Korea	09/24/2003		METHOD AND SYSTEM FOR REDUCING CONTACT DEFECTS USING NON CONVENTIONAL CONTACT FORMATION METHOD FOR SEMICONDUCTOR CELLS
10-1071387	G0752KR	South Korea	01/08/2004	09/30/2011	IMPROVED PERFORMANCE IN FLASH MEMORY DEVICES
10-0936087	G0861KR	South Korea	02/14/2003	12/31/2009	IMPROVED ERASE METHOD FOR SINGLE SIDED MIRROR OPERATION
10-0953993	G0862KR	South Korea	02/14/2003	04/13/2010	REFRESH SCHEME FOR DYNAMIC PAGE PROGRAMMING
10-0935948	G0864KR	South Korea	02/14/2003	12/30/2009	REFRESH SCHEME FOR DYNAMIC PAGE PROGRAMMING
10-0949198	G0865KR	South Korea	07/10/2003	03/23/2010	MOCVD FORMATION OF Cu ₂ S
10-0960352	G0866KR	South Korea	04/22/2003	04/22/2010	STEPPED PRE-ERASE VOLTAGE FOR MIRRORBIT ERASE
10-1037775	G0871KR	South Korea	07/10/2003	05/23/2011	LATERAL DOPED CHANNEL
10-1024079	G0878KR	South Korea	07/10/2003	03/15/2011	SILICON NITRADE CHARGE TRAPPING MEMORY DEVICE
7012003/2004	G1255KR	South Korea	02/05/2003		PARTIAL PAGE PROGRAMMING OF MULTI LEVEL FLASH
10-0988353	H0297KR	South Korea	07/10/2003	10/11/2010	CONTROL OF MEMORY ARRAYS UTILIZING ZENER DIODE-LIKE DEVICES
915451	H0325KR	South Korea	09/19/2005	08/27/2009	CONTROL OF MEMORY DEVICES POSSESSING VARIABLE RESISTANCE CHARACTERISTICS
10-1163681	H0343KR	South Korea	07/10/2003	07/02/2012	MOCVD FORMATION OF Cu ₂ S
10-1415283	H0346KR	South Korea	02/11/2005	06/27/2014	IN-SITU SURFACE TREATMENT FOR MEMORY CELL FORMATION
7016965/2005	H0354KR	South Korea	03/01/2004		SPIN ON POLYMERS FOR ORGANIC MEMORY DEVICES
10-1134156	H0368KR	South Korea	02/11/2005	03/30/2012	POLYMER DIELECTRICS FOR MEMORY ELEMENT ARRAY INTERCONNECT
10-1018053	H0385KR	South Korea	09/08/2003	02/25/2011	AN ORGANIC MEMORY DEVICE AND METHOD FOR FORMING A MEMORY CELL
10-1087299	H0416KR	South Korea	09/23/2004	11/21/2011	SIDEWALL FORMATION FOR HIGH DENSITY POLYMER MEMORY ELEMENT ARRAY
7000426/2006	H0422KR	South Korea	05/11/2004		METHOD AND SYSTEM FOR MANUFACTURING POLYMER MEMORY DEVICE IN VIA OPENING

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10-1043054	H0423KR	South Korea	09/16/2004	06/21/2011	SELF ASSEMBLY OF CONDUCTING POLYMER FOR FORMATION OF POLYMER MEMORY CELL
10-0988060	H0434KR	South Korea	07/10/2003	10/08/2010	STACKED ORGANIC MEMORY DEVICES AND METHODS OF OPERATING AND FABRICATING
7023230/2005	H0437	South Korea	05/11/2004		PLANAR POLYMER MEMORY DEVICE
7000425/2006	H0442	South Korea	05/21/2004		ORGANIC MEMORY DEVICE AND METHODS OF USING AND MAKING THE DEVICE
10-0960136	H0514KR	South Korea	06/10/2003	05/19/2010	NITROGEN OXIDATION TO REDUCE ENCROACHMENT
10-1027784	H0541KR	South Korea	07/15/2004	03/31/2011	LOW POWER CHARGE PUMP
10-0957830	H0570KR	South Korea	07/24/2003	05/06/2010	IMPROVED SYSTEM FOR PROGRAMMING A NON-VOLATILE MEMORY CELL
10-0952972	H0575KR	South Korea	07/24/2003	04/07/2010	IMPROVED PRE-CHARGE METHOD FOR READING A NON-VOLATILE MEMORY CELL ARRAY WITH STAGGERED LOCAL INTERCONNECT STRUCTURE
10-1012128	H0576KR	South Korea	09/16/2004	01/25/2011	RECESS CHANNEL FLASH ARCHITECTURE FOR REDUCED SHORT CHANNEL EFFECT
10974160000	H0577KR	South Korea	09/16/2004	12/15/2011	IMPROVED METHOD FOR READING A NON-VOLATILE MEMORY CELL ADJACENT TO AN INACTIVE REGION OF A NON-VOLATILE MEMORY CELL ARRAY
10-1060742	H0625KR	South Korea	01/08/2004	08/24/2011	MEMORY DEVICE AND METHOD USING POSITIVE GATE STRESS TO RECOVER OVERERASED CELL
10-1099772	H0626KR	South Korea	09/16/2004	12/21/2011	IMPROVED PERFORMANCE IN FLASH MEMORY DEVICES
10-1071965	H0671KR	South Korea	01/08/2004	10/04/2011	CASCADE AMPLIFIER CIRCUIT FOR PRODUCING A FAST, STABLE AND ACCURATE BITLINE VOLTAGE
10-0955089	H1203KR	South Korea	07/10/2003	04/20/2010	SELECTION CIRCUIT FOR ACCURATE MEMORY READ OPERATIONS
10-1050521	H1204KR	South Korea	01/08/2004	07/13/2011	CIRCUIT FOR ACCURATE MEMORY READ OPERATIONS
10-0950569	H1205KR	South Korea	07/24/2003	03/24/2010	PECVD SILICON-RICH OXIDE LAYER FOR REDUCED UV CHARGING
700275/2006	H1368KR	South Korea	06/18/2004		NON-VOLATILE MEMORY DEVICE
7023373/2005	H1414KR	South Korea	06/05/2004		FLASH MEMORY DEVICE
10-1142990	H1415KR	South Korea	10/26/2004	04/27/2012	CIRCUIT FOR FAST AND ACCURATE MEMORY READ OPERATIONS
7017062/2005	H1513KR	South Korea	03/01/2004		MEMORY CELL STRUCTURE HAVING NITRIDE LAYER WITH REDUCED CHARGE LOSS AND METHOD FOR FABRICATING SAME
10-1217260	H1862KR	South Korea	08/31/2004	12/24/2012	FAST, ACCURATE AND LOW POWER SUPPLY VOLTAGE BOOSTER USING A/D CONVERTER
7018828/2005	H1892JP	South Korea	03/08/2004		MEMORY CELL
10-0860134	H1979KR	South Korea	08/13/2001	09/18/2008	METHODS AND APPARATUS FOR WORDLINE PROTECTION IN FLASH MEMORY DEVICES
10-1056151	H1984KR	South Korea	02/11/2005	08/04/2011	POCKET IMPLANT FOR COMPLEMENTARY BIT DISTURB IMPROVEMENT AND CHARGING IMPROVEMENT OF SONOS MEMORY CELL
10-1135715	H1985KR	South Korea	12/17/2004	04/04/2012	METHOD OF FORMING NARROWLY SPACED FLASH MEMORY CONTACT OPENINGS
7003268/2007	H1990KR	South Korea	04/29/2005		BITLINE IMPLANT UTILIZING DUAL POLY
10-1136140	H1993KR	South Korea	02/11/2005	04/05/2012	NON-CRITICAL COMPLEMENTARY MASKING METHOD FOR POLY-1 DEFINITION IN FLASH MEMORY DEVICE FABRICATION
7025572/2007	H1998	South Korea	04/04/2006		USE OF SUPERCRITICAL FLUID TO DRY WAFER AND CLEAN LANS IN IMMERSION LITHOGRAPHY
10-2008-7002830	H2114KR	South Korea	06/23/2006		SEMICONDUCTOR DEVICE AND THE METHOD FOR FABRICATING THEREOF
323622	JC137496KR	South Korea	05/29/1997	01/25/2002	HIGH YIELD, HIGH PERFORMANCE SEMICONDUCTOR PROCESS FLOW FOR NAND FLASH MEMORY PRODUCTS
627928	JC684497KR	South Korea	11/29/1999	09/18/2006	ELIMINATION OF POLY-CAP FOR EASY POLY1 CONTACT FOR NAND PRODUCT
554089	JC688497KR	South Korea	02/11/1999	02/14/2006	PROCESS FOR FABRICATING AN INTEGRATED CIRCUIT WITH A SELF-ALIGNED CONTACT
578579	JC818597KR	South Korea	12/17/1998	05/03/2006	PORTABLE WIRELESS DATA STORAGE DEVICE
10-1238431	JDE0584KR	South Korea	04/21/2006	02/22/2013	METHOD FOR READING NON-VOLATILE MEMORY CELLS
10-2008-0066467	P-6628US CIP	South Korea	08/17/2006		NON-VOLATILE SEMICONDUCTOR MEMORY CELL UTILIZING ASYMMETRICAL CHARGE TRAPPING
433994	P-878KR	South Korea	06/24/1997	05/21/2004	A SYSTEM AND METHOD OF ERASE VOLTAGE CONTROL DURING MULTIPLE SECTOR ERASE OF A FLASH MEMORY DEVICE
10-0953330	SE0002KR	South Korea	03/11/2003	04/09/2010	METHOD, APPARATUS, AND MANUFACTURE FOR FLASH MEMORY ADAPTIVE ALGORITHM
10-2014-7037178	SP09-0030KR	South Korea	05/24/2013		HIGH SPEED SERIAL PERIPHERAL INTERFACE MEMORY SUBSYSTEM
10-2014-7018662	SP09-0056JP	South Korea	12/07/2012		POWER SAVINGS APPARATUS AND METHOD FOR MEMORY DEVICE USING DELAY LOCKED LOOP
10-2015-7005488	SP09-0058KR	South Korea	07/31/2013		SELF-ALIGNED NAND FLASH SELECT-GATE WORDLINES FOR SPACER DOUBLE PATTERNING
10-2013-7018650	SP10-0007KR	South Korea	12/17/2010		EDGE ROUNDED FIELD EFFECT TRANSISTORS AND METHODS OF MANUFACTURING
10-2013-7019143	SP10-0008KR	South Korea	12/19/2011		PROCESS MARGIN ENGINEERING IN CHARGE TRAPPING FIELD EFFECT TRANSISTORS
10-2013-7019144	SP10-0009KR	South Korea	12/19/2011		MEMORY WITH EXTENDED CHARGE TRAPPING LAYER
10-2013-7020128	SP10-0012KR	South Korea	12/29/2011		SOFT ERROR RESISTANT CIRCUITRY
10-2014-7034452	SP11-0015JP	South Korea	05/14/2013		APPARATUS AND METHOD FOR A REDUCED PIN COUNT (RPC) MEMORY BUS INTERFACE INCLUDING A READ DATA STROBE SIGNAL
10-2013-0027798	SP11-0021KR	South Korea	03/15/2013		CONTINUOUS READ BURST SUPPORT AT HIGH CLOCK RATES
10-2013-0008915	SP11-0034JP	South Korea	01/25/2013		ACOUSTIC PROCESSING UNIT
10-2014-7020293	SP11-0042KR	South Korea	12/14/2012		ADAPTIVELY PROGRAMMING OR ERASING FLASH MEMORY BLOCKS
10-2014-7030822	SP12-0013KR	South Korea	04/01/2013		LEAKAGE REDUCING WRITELINE CHARGE PROTECTION CIRCUIT
10-2015-7003190	SP12-0017KR	South Korea	07/08/2013		

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10-2015-7005000	SP12-0021KR	South Korea	07/29/2013		BITLENE VOLTAGE REGULATION IN NON-VOLATILE MEMORY
10-2015-0025999	SP13-0036KR	South Korea	02/24/2015		MEMORY SUBSYSTEM WITH WRAPPED-TO-CONTINUOUS READ
10-2014-7025593	SPNSP110027KR	South Korea	02/08/2013		IMPROVING REDUNDANCY LOADING EFFICIENCY
431551	TT0497JP	South Korea	02/14/1996	05/03/2004	A NON-VOLATILE MEMORY DEVICES HAVING A FLOATING GATE WITH ENHANCED CHANGE RETENTION
14127/1996	TT0607JP	South Korea	05/01/1996		METHOD FOR READING A NON-VOLATILE MEMORY ARRAY
1116239	D168	Spain	08/16/1999	05/15/2002	SIMULTANEOUS OPERATION FLASH MEMORY DEVICE WITH A FLEXIBLE DEVICE WITH A FLEXIBLE BANK PARTITION ARCHITECTURE
1203378	C725497	Sweden	08/01/2000	06/30/2004	CIRCUIT IMPLEMENTATION TO QUENCH BIT LINE LEAKAGE CURRENT IN PROGRAM AND AUTO PROGRAM DISTURB MODE IN FLASH EPROM USING RESISTOR SOURCE LOAD
085865	A938/2033TW	Taiwan	03/10/1994	04/11/1997	PROGRAMMED REFERENCE
094852	A960/2054TW	Taiwan	07/26/1994	09/25/1998	METHOD AND APPARATUS FOR PROGRAMMING MEMORY DEVICES
173010	AF01002TW	Taiwan	10/16/2000	07/02/2003	LOW VOLTAGE READ CASCODE FOR 2V/3V AND DIFFERENT BANK COMBINATIONS WITHOUT METAL OPTIONS FOR A SIMULTANEOUS OPERATION FLASH MEMORY DEVICE
1235380	AF01027TW	Taiwan	07/24/2000	07/01/2005	OUTPUT MULTIPLEXING IMPLEMENTATION FOR A SIMULTANEOUS OPERATION FLASH MEMORY DEVICE
161524	AF01036TW	Taiwan	02/19/2001	12/10/2002	WORDLINE DRIVER FOR FLASH MEMORY READ MODE
175452	AF01054TW	Taiwan	10/18/2000	08/01/2003	HIGH TEMPERATURE OXIDE DEPOSITION PROCESS FOR FABRICATING AN ONO FLOATING-GATE ELECTRODE IN A TWO BIT EEPROM DEVICE
157893	AF01064TW	Taiwan	03/21/2001	10/14/2002	METHOD FOR FORMING HIGH QUALITY MULTIPLE THICKNESS OXIDE LAYERS USING HIGH TEMPERATURE DESCUM
190221	AF01066TW	Taiwan	03/22/2001	03/08/2004	METHOD FOR FORMING HIGHQUALITY MULTIPLE THICKNESS OXIDE LAYERS BY REDUCING DESCUM INDUCED DEFECTS
170606	AF01072TW	Taiwan	01/18/2001	05/23/2003	VOLTAGE BOOST LEVEL CLAMPING CIRCUIT FOR A FLASH MEMORY
183451	AF01073TW	Taiwan	08/27/2001	12/08/2003	WORD LINE DECODING ARCHITECTURE IN A FLASH MEMORY
207260	AF01074TW	Taiwan	06/06/2001	11/15/2004	POWER SAVING SCHEME FOR BURST MODE IMPLEMENTATION DURING READING OF DATA FROM A MEMORY DEVICE
1222073	AF01075TW	Taiwan	03/14/2001	10/11/2004	MULTIPLE BANK SIMULTANEOUS OPERATION FOR A FLASH MEMORY
167339	AF01076TW	Taiwan	04/09/2001	05/30/2001	BURST ARCHITECTURE FOR A FLASH MEMORY
179541	AF01078TW	Taiwan	07/20/2001	10/09/2003	BURST READ INCORPORATING OUTPUT BASED REDUNDANCY
173070	AF01081TW	Taiwan	08/09/2001	07/02/2003	BURST READ WORDLINE BOOSTING
168872	AF01085TW	Taiwan	06/11/2001	04/23/2003	METHOD TO REDUCE CAPACITIVE LOADING IN FLASH MEMORY X-DECODER FOR ACCURATE VOLTAGE CONTROL AT WORDLINES AND SELECT LINES
167308	AF01086TW	Taiwan	09/29/2000	04/03/2003	WORD LINE TRACKING IN WHOLE CHIP
153870	AF01088TW	Taiwan	03/07/2001	08/06/2002	SINGLE TUNNEL GATE OXIDATION PROCESS FOR FABRICATING NAND FLASH MEMORY
197919	AF01090TW	Taiwan	03/08/2002	07/06/2004	I/O PARTITIONING AND METHODOLOGY TO REDUCE BAND-TO-BAND TUNNELING CURRENT DURING ERASE
203031	AF01091TW	Taiwan	10/09/2002	09/27/2004	DRAIN SIDE SENSING SCHEME FOR VIRTUAL GROUND FLASH EPROM ARRAY WITH ADJACENT BIT CHARGE AND HOLD
192693	AF01094TW	Taiwan	06/12/2002	04/08/2004	VOLTAGE BOOST CIRCUIT USING SUPPLY VOLTAGE DETECTION TO COMPENSATE FOR SUPPLY VOLTAGE VARIATIONS IN READ MODE VOLTAGES
201733	AF01096TW	Taiwan	03/13/2002	09/08/2004	SOFT PROGRAM AND SOFT PROGRAM VERIFY OF THE CORE CELLS IN FLASH MEMORY ARRAY
172356	AF01112TW	Taiwan	11/27/2001	06/17/2003	PLANAR STRUCTURE FOR NON-VOLATILE MEMORY DEVICES
1286755	AF01116TW	Taiwan	03/28/2003	09/11/2007	SYSTEM AND METHOD FOR MULTI-BIT FLASH READS USING DUAL DYNAMIC REFERENCES
1267942	AF01124TW	Taiwan	12/18/2002	12/01/2006	MONOS DEVICE HAVING BURIED METAL SILICIDE BIT LINE
1295835	AF01132TW	Taiwan	02/13/2003	04/11/2008	HARD MASK PROCESS FOR MEMORY DEVICE WITHOUT BITLINE SHORTS
1261338	AF01134TW	Taiwan	03/24/2003	09/01/2006	METHOD OF MAKING MEMORY WORDLINE HARD MASK EXTENSION
1326878	AF01165TW	Taiwan	07/30/2003	07/01/2010	SYSTEM AND METHOD FOR Y-DECODEING IN A FLASH MEMORY DEVICE
1369682	AF01169TW	Taiwan	06/17/2004	08/01/2012	MEMORY WITH A CORE-BASED VIRTUAL GROUND AND DYNAMIC REFERENCE SENSING SCHEME
1337354	AF01182TW	Taiwan	06/30/2004	02/11/2011	MEMORY DEVICE HAVING HIGH WORK FUNCTION GATE AND METHOD OF ERASING SAME
1334631	AF01186TW	Taiwan	01/19/2004	12/11/2010	CHARGE-TRAPPING MEMORY ARRAYS RESISTANT TO DAMAGE FROM CONTACT HOLE FORMATION
1339437	AF01209TW	Taiwan	04/23/2004	03/21/2011	METHOD FOR REDUCING SHORT CHANNEL EFFECTS IN MEMORY CELLS AND RELATED STRUCTURE
94100806	AF01214TW	Taiwan	01/12/2005		EFFICIENT USE OF WAFER AREA WITH DEVICE UNDER THE PAD APPROACH
1362114	AF01220TW	Taiwan	01/13/2005	04/11/2012	STRUCTURE AND METHOD FOR LOW VSS RESISTANCE AND REDUCED DIBL IN A FLOATING GATE MEMORY CELL
368954	AF01232TW	Taiwan	07/04/2005	07/21/2012	BOND PAD STRUCTURE FOR COPPER METALLIZATION HAVING INCREASED RELIABILITY AND METHOD FOR FABRICATING SAME
95109801	AF01278TW	Taiwan	03/22/2006		TEMPERATURE COMPENSATION OF THIN FILM DIODE VOLTAGE THRESHOLD IN MEMORY SENSING CIRCUIT
1392098	AF01279TW	Taiwan	09/07/2005	04/01/2013	VERTICAL JFET AS USED FOR SELECTIVE COMPONENT IN MEMORY ARRAY
1355089	AF01286TW	Taiwan	03/22/2006	12/21/2011	VARIABLE BREAKDOWN CHARACTERISTIC DIODE
95124125	AF01293TW	Taiwan	07/03/2006		PREAMORPHIZATION TO MINIMIZE VOID FORMATION

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I375952	AF01306TW	Taiwan	07/01/2005	11/01/2012	SWITCHABLE MEMORY DIODE- A NEW MEMORY DEVICE
I392081	AF01310TW	Taiwan	09/11/2006	04/01/2013	SEMICONDUCTOR MEMORY DEVICE COMPRISING ONE OR MORE INJECTING BILAYER ELECTRODES
I401684	AF01320TW	Taiwan	08/12/2005	07/11/2013	SYSTEMS AND METHODS FOR ADJUSTING PROGRAMMING THRESHOLDS OF POLYMER MEMORY CELLS
I368911	AF01321JP	Taiwan	08/12/2005	07/21/2012	METHOD OF PROVIDING VARIABLE RETENTION TIME TO A MEMORY DEVICE AND A MEMORY DEVICE THAT USES THE METHOD
I405210	AF01329TW	Taiwan	08/30/2005	08/11/2013	NON-VOLATILE MEMORY DEVICE AND ERASING METHOD THEREFOR
102121311	AF01329TW DIV	Taiwan	08/30/2005		NON-VOLATILE MEMORY DEVICE AND ERASING METHOD THEREFOR
102121312	AF01329TW DIV2	Taiwan	08/30/2005		NON-VOLATILE MEMORY DEVICE AND ERASING METHOD THEREFOR
I395229	AF01338TW	Taiwan	10/20/2005	05/01/2013	METHOD AND APPARATUS FOR SETTING OPERATIONAL INFORMATION OF A NON-VOLATILE MEMORY
95129323	AF01360TW	Taiwan	08/10/2006		METHOD OF FORMING GATE ELECTRODE STRUCTURES
I367488	AF01361TW	Taiwan	07/01/2005	07/01/2012	ERASE DISTRIBUTION IMPROVEMENT WITH ENHANCED DUMMY WORDLINES IN FLASH MEMORY
I373047	AF01365TW	Taiwan	07/29/2005	09/21/2012	FLASH MEMORY UNIT AND METHOD OF PROGRAMMING A FLASH MEMORY DEVICE
I382473	AF01379TW	Taiwan	08/02/2005	01/11/2013	MEMORY CELL WITH REDUCED DIBL AND VSS RESISTANCE
402857	AF01383TW	Taiwan	09/21/2005	07/21/2013	READ APPROACH FOR MULTI-LEVEL VIRTUAL GROUND MEMORY
I363345	AF01386TW	Taiwan	06/02/2005	05/01/2012	ERASE ALGORITHM FOR MULTI-LEVEL BIT FLASH MEMORY
94127445	AF01411TW	Taiwan	08/12/2005		DEPOSITION OF HARD-MASK WITH MINIMIZED HILLOCKS AND BUBBLES
I423260	AF01412TW	Taiwan	07/27/2005	01/11/2014	METHOD AND APPARATUS FOR INFORMATION SETTING IN A NON- VOLATILE MEMORY DEVICE
102147874	AF01412TW DIV	Taiwan	07/27/2005		METHOD AND APPARATUS FOR INFORMATION SETTING IN A NON- VOLATILE MEMORY DEVICE
395228	AF01438TW	Taiwan	12/23/2005	05/01/2013	METHOD AND APPARATUS FOR APPLYING BIAS TO A STORAGE DEVICE
397914	AF01453TW	Taiwan	04/06/2005	06/01/2013	METHOD AND SYSTEMS FOR HIGH WRITE PERFORMANCE IN MULTI- BIT FLASH MEMORY DEVICES
I404173	AF01455TW	Taiwan	11/29/2005	08/01/2013	NON-VOLATILE SEMICONDUCTOR MEMORY DEVICE
95114640	AF01459TW	Taiwan	04/25/2006		SELF-ALIGNED STI SONOS
405300	AF01468TW	Taiwan	10/20/2005	08/11/2013	SEMICONDUCTOR DEVICE AND METHOD OF FABRICATING THE SAME
420649	AF01479TW	Taiwan	12/27/2005	12/21/2013	SEMICONDUCTOR DEVICE AND METHOD FOR CONTROLLING OPERATION THEREOF
I420719	AF01484TW	Taiwan	02/07/2006	12/21/2013	MEMORY ELEMENT USING ACTIVE LAYERS OF BLENDED MATERIALS
I404062	AF01485TW	Taiwan	12/22/2005	08/01/2013	METHOD OF PROGRAMMING, READING AND ERASING MEMORY- DIODE IN A MEMORY-DIODE ARRAY
95111152	AF01490TW	Taiwan	03/30/2006		WRITE-ONCE READ-MANY TIMES MEMORY
402840	AF01491TW	Taiwan	11/14/2005	07/21/2013	DIODE ARRAYS ARCHITECTURE FOR ADDRESSING NANOSCALE RESISTIVE MEMORY ARRAYS
95110016	AF01492TW	Taiwan	03/23/2006		MEMORY DEVICE WITH IMPROVED DATA RETENTION
94139371	AF01500TW	Taiwan	11/10/2005		PROTECTION OF ACTIVE LAYERS OF MEMORY CELLS DURING PROCESSING OF OTHER ELEMENTS
95124259	AF01501TW	Taiwan	07/04/2006		MEMORY DEVICE WITH IMPROVED DATA RETENTION
95124260	AF01514TW	Taiwan	07/04/2006		STACKABLE MEMORY DEVICE AND ORGANIC TRANSISTOR STRUCTURE
387200	AF01523TW	Taiwan	12/22/2005	02/21/2013	SENSE AMPLIFIER WITH HIGH VOLTAGE SWING
95107722	AF01524TW	Taiwan	03/08/2006		DECODER FOR MEMORY DEVICE
I440189	AF01535TW	Taiwan	07/31/2006	06/01/2014	SONOS MEMORY CELL HAVING HIGH-K DIELECTRIC
95138512	AF01543TW	Taiwan	10/19/2006		BIT LINE IMPLANT
I422016	AF01543TW DIV	Taiwan	10/20/2010	01/01/2014	BIT LINE IMPLANT
I402916	AF01548TW	Taiwan	10/18/2006	07/21/2013	TRIPLE LAYER ANTI-REFLECTIVE HARD MASK
95136503	AF01553TW	Taiwan	10/02/2006		CONTACT SPACER FORMATION USING ATOMIC LAYER DEPOSITION
I407532	AF01578TW	Taiwan	10/31/2005	09/01/2013	SYSTEM AND METHOD FOR PROTECTING SEMICONDUCTOR DEVICES
95124416	AF01586TW	Taiwan	07/05/2006		METHOD FOR PROGRAMMING A MEMORY DEVICE
396251	AF01602TW	Taiwan	07/31/2006	05/11/2013	SYSTEM AND METHOD FOR IMPROVING MESA WIDTH IN A SEMICONDUCTOR DEVICE
95110020	AF01625TW	Taiwan	03/23/2006		HIGH K STACK FOR NON-VOLATILE MEMORY
I440141	AF01638TW	Taiwan	07/31/2006	06/01/2014	MEMORY DEVICE WITH BARRIER LAYER
I378552	AF01653TW	Taiwan	01/24/2006	12/01/2012	SEMICONDUCTOR DEVICE AND FABRICATION METHOD THEREOF
392079	AF01663TW	Taiwan	01/27/2006	04/01/2013	CARRIER FOR STACKED TYPE SEMICONDUCTOR DEVICE AND METHOD OF FABRICATING STACKED TYPE SEMICONDUCTOR DEVICES
I337358	AF01668TW	Taiwan	09/13/2006	02/11/2011	HIGH PERFORMANCE FLASH MEMORY DEVICE CAPABLE OF HIGH DENSITY DATA STORAGE
I342025	AF01669TW	Taiwan	09/15/2006	05/11/2011	MULTI-BIT FLASH MEMORY DEVICE HAVING IMPROVED PROGRAM RATE
I379301	AF01673TW	Taiwan	09/15/2006	12/11/2012	FLASH MEMORY PROGRAMMING USING AN INDICATION BIT TO INTERPRET STATE
I351034	AF01682TW	Taiwan	12/29/2006	10/21/2011	RANDOM CACHE READ USING A DOUBLE MEMORY
I407440	AF01698TW	Taiwan	01/27/2006	09/01/2013	SEMICONDUCTOR DEVICE, ADDRESS ALLOTING METHOD, AND VERIFICATION METHOD
102127390	AF01698TW DIV	Taiwan	01/27/2006		SEMICONDUCTOR DEVICE, ADDRESS ALLOTING METHOD, AND VERIFICATION METHOD

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95111153	AF01713TW	Taiwan	03/30/2006		SEMICONDUCTOR DEVICE AND METHOD OF GENERATING A REFERENCE VOLTAGE THEREFOR
I383499	AF01735TW	Taiwan	04/27/2006	01/21/2013	SEMICONDUCTOR DEVICE AND MANUFACTURING METHOD THEREFOR
95108917	AF01743TW	Taiwan	03/16/2006		MEMORY DEVICE AND ITS CONTROL METHOD
95133426	AF01746	Taiwan	09/06/2006		METHOD FOR FORMING SPACERS BETWEEN BITLINES IN A VIRTUAL GROUND MEMORY ARRAY AND REALTED STRUCTURE
95136177	AF01757JP	Taiwan	09/29/2006		STORAGE DEVICE AND CONTROL METHOD THEREOF
I371851	AF01766TW	Taiwan	03/20/2007	09/01/2012	MEMORY CELL SYSTEM USING SILICON-RICH NITRIDE
I334608	AF01770TW	Taiwan	12/06/2006	12/11/2010	A NON VOLATILE MEMORY DEVICE AND ITS CONTROL METHOD
I 348201	AF01772TW	Taiwan	09/22/2006	09/01/2011	METHOD FOR FORMING NARROW STRUCTURES IN A SEMICONDUCTOR DEVICE
I 344176	AF01777TW	Taiwan	10/20/2006	06/21/2011	METHOD FOR MANUFACTURING A SEMICONDUCTOR COMPONENT
I368992	AF01810TW	Taiwan	03/16/2007	07/21/2012	VERTICAL SEMICONDUCTOR DEVICE
371081	AF01812TW	Taiwan	10/02/2006	08/21/2012	SEMICONDUCTOR DEVICE AND FABRICATION METHOD THEREOF
I338841	AF01828TW	Taiwan	10/02/2006	03/11/2011	SYSTEM THAT FACILITATES DATE TRANSFER BETWEEN DIFFERENT CLOCK DOMAINS
I362099	AF01829TW	Taiwan	09/28/2006	04/11/2012	PACKAGE USING AC INTERPOSERS
96137782	AF01836TW	Taiwan	10/09/2007		NORNAND
420526	AF01840TW	Taiwan	10/04/2006	12/21/2013	SEMICONDUCTOR DEVICE AND CONTROL METHOD THEREFOR
102141615	AF01840TW DIV	Taiwan	10/04/2006		SEMICONDUCTOR DEVICE AND CONTROL METHOD THEREFOR
I365454	AF01853TW	Taiwan	10/19/2006	06/01/2012	MEMORY ARRAY
I 354290	AF01854TW	Taiwan	04/25/2007	12/11/2011	SEMICONDUCTOR DEVICE AND PROGRAMMING METHOD
I404194	AF01869TW	Taiwan	12/14/2007	08/01/2013	CONVEX SHAPED THIN-FILM-TRANSISTOR DEVICE
366832	AF01889TW	Taiwan	11/28/2007	06/21/2012	MEMORY DEVICE AND PASSWORD STORING METHOD THEREOF
I376781	AF01890TW	Taiwan	12/24/2007	11/11/2012	SEMICONDUCTOR DEVICE AND METHOD OF MANUFACTURING THE SAME
I 344183	AF01895TW	Taiwan	01/17/2007	06/21/2011	SEMICONDUCTOR DEVICE AND PROGRAMMING METHOD
I359425	AF01897	Taiwan	12/28/2006		SEMICONDUCTOR DEVICE AND METHOD OF CONTROLLING THE SAME
I376024	AF01898TW	Taiwan	12/14/2007	11/01/2012	SEMICONDUCTOR DEVICE AND METHOD FOR MANUFACTURING THE SAME (AS AMENDED)
I373839	AF01906TW	Taiwan	12/24/2007	10/01/2012	SEMICONDUCTOR DEVICE AND METHOD OF MANUFACTURING SAME
I375172	AF01907TW	Taiwan	04/09/2007	10/21/2012	MULTI MEDIA CARD WITH HIGH STORAGE CAPACITY
I348741	AF01908TW	Taiwan	12/06/2006	09/11/2011	SEMICONDUCTOR DEVICE AND METHOD OF MANUFACTURING THE SAME
96132834	AF01938TW	Taiwan	09/04/2007		DAMASCENE METAL-INSULATOR-METAL (MIM) DEVICE WITH IMPROVED SCALEABILITY
I357079	AF01944TW	Taiwan	11/27/2007	01/21/2012	METHODS OF PROGRAMMING AND ERASING RESISTIVE MEMORY DEVICES
I 345789	AF01949TW	Taiwan	12/06/2006	07/21/2011	SEMICONDUCTOR DEVICE AND CONTROL METHOD THEREFOR
I357637	AF01954TW	Taiwan	04/24/2007	02/01/2012	MEMORY CELL ARRAY WITH LOW RESISTANCE COMMON SOURCE AND HIGH CURRENT DRIVABILITY
I364837	AF01965TW	Taiwan	11/27/2007	05/21/2012	BARRIER REGION FOR MEMORY DEVICES
I381488	AF01989TW	Taiwan	11/27/2007	01/01/2013	MEMORY DEVICE PROTECTION LAYER
I420673	AF02037TW	Taiwan	07/24/2007	12/21/2013	INTEGRATED CIRCUIT MEMORY SYSTEM EMPLOYING SILICON RICH LAYERS
102134239	AF02037TW DIV	Taiwan	07/24/2007		INTEGRATED CIRCUIT MEMORY SYSTEM EMPLOYING SILICON RICH LAYERS
416669	AF02041TW	Taiwan	07/11/2007	11/21/2013	MEMORY CELL SYSTEM WITH CHARGE TRAP
I368317	AF02044TW	Taiwan	07/11/2007	07/11/2012	MEMORY CELL SYSTEM WITH MULTIPLE NITRIDE LAYERS
I423265	AF02067TW	Taiwan	08/13/2007	01/11/2014	MEMORY ERASE MANAGEMENT SYSTEM
392088	AF02071TW	Taiwan	05/21/2007	04/01/2013	MEMORY SYSTEM WITH SWITCH ELEMENT AND METHOD OF MANUFACTURING THE MEMORY SYSTEM
I 342024	AF02079	Taiwan	07/03/2007	05/11/2011	NONVOLATILE STORAGE AND ERASE CONTROL
I365514	AF02117TW	Taiwan	11/29/2007	06/01/2012	A SEMICONDUCTOR MEMORY COMPRISING DUAL CHARGE STORAGE NODES AND METHODS FOR ITS FABRICATION
I364819	AF02131TW	Taiwan	12/07/2007	05/21/2012	FLASH MEMORY DEVICES AND METHODS FOR FABRICATING THE SAME
I355662	AF02136TW	Taiwan	04/04/2007	01/01/2012	REDUCTION OF LEAKAGE CURRENT AND PROGRAM DISTURBS IN FLASH MEMORY DEVICES
371101	AF02137TW	Taiwan	04/04/2007	08/21/2012	METHODS FOR ERASING AND PROGRAMMING MEMORY DEVICES AND SEMICONDUCTOR DEVICE
I390709	AF02138TW	Taiwan	04/04/2007	03/21/2013	METHODS FOR ERASING MEMORY DEVICES AND MULTI-LEVEL PROGRAMMING MEMORY DEVICE
I373048	AF02139TW	Taiwan	12/07/2007	09/21/2012	ERASING FLASH MEMORY USING ADAPTIVE DRAIN AND/OR GATE BIAS AND RELATED ERASE METHOD
I366887	AF02141TW	Taiwan	11/28/2007	06/21/2012	DUAL-BIT MEMORY DEVICE HAVING TRENCH ISOLATION MATERIAL DISPOSED NEAR BIT LINE CONTACT AREAS
I367487	AF02146TW	Taiwan	04/04/2007	07/01/2012	FLASH MEMORY PROGRAMMING AND VERIFICATION WITH REDUCED LEAKAGE CURRENT
I378464	AF02150TW	Taiwan	06/09/2008	12/01/2012	NON-VOLATILE MEMORY DEVICE, NON-VOLATILE MEMORY SYSTEM, AND CONTROL METHOD FOR THE NON-VOLATILE MEMORY DEVICE
I 341022	AF02167TW	Taiwan	05/23/2007	04/21/2011	MEMORY CELLS HAVING SPLIT CHARGE STORAGE NODES AND METHODS FOR FABRICATING MEMORY CELLS HAVING SPLIT CHARGE STORAGE NODES
176246	AF02175TW	Taiwan	03/23/2000	04/01/2003	NONVOLATILE MEMORY ALLOW ENCRYPTED
149946	AF02178TW	Taiwan	11/24/2000	01/21/2002	NONVOLATILE SEMICONDUCTOR MEMORY DEVICE
156259	AF02189TW	Taiwan	12/14/2000	05/11/2002	MANUFACTURING METHOD OF NONVOLATILE
172137	AF02191TW	Taiwan	09/26/2001	02/01/2003	NONVOLATILE SEMICONDUCTOR DEVICE AND
161056	AF02192TW	Taiwan	09/25/2001	08/01/2002	SEMICONDUCTOR MEMORY AND MANUFACTURING

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172465	AF02195TW	Taiwan	08/29/2001	02/01/2003	SEMICONDUCTOR DEVICE AND MANUFACTURING
160393	AF02198TW	Taiwan	08/28/2001	07/21/2002	SEMICONDUCTOR MEMORY DEVICE AND DRIVING
1222228	AF02208TW	Taiwan	03/06/2003	10/11/2004	NONVOLATILE SEMICONDUCTOR MEMORY AND
200429	AF02209TW	Taiwan	02/10/2003	09/01/2003	Nonvolatile semiconductor memory device programming second dynamic reference cell according to threshold value of first dynamic reference cell
1269435	AF02212TW	Taiwan	05/15/2003	12/21/2006	NONVOLATILE SEMICONDUCTOR MEMORY DEVICE
203546	AF02214TW	Taiwan	03/14/2003	05/21/2004	SEMICONDUCTOR MEMORY DEVICE
1233129	AF02219TW	Taiwan	09/04/2003	05/21/2005	SEMICONDUCTOR MEMORY FOR FUNCTION WELL
1221292	AF02220TW	Taiwan	08/01/2003	09/21/2004	NONVOLATILE SEMICONDUCTOR MEMORY
1239009	AF02221TW	Taiwan	08/29/2003	09/01/2005	MEMORY CIRCUIT HAVING
1224794	AF02222TW	Taiwan	08/05/2003	12/01/2004	NONVOLATILE SEMICONDUCTOR MEMORY
206705	AF02238TW	Taiwan	04/29/2003	06/21/2004	NONVOLATILE SEMICONDUCTOR MEMORY
1368913	AF02246TW	Taiwan	06/12/2008	07/21/2012	COMPENSATION METHOD TO ACHIEVE UNIFORM PROGRAMMING SPEED OF FLASH MEMORY DEVICES AND A SYSTEM THAT USES THE METHOD (AS AMENDED)
1373828	AF02248TW	Taiwan	05/09/2008	10/01/2012	FLASH MEMORY CELL WITH A FLAIR GATE
1366825	AF02267TW	Taiwan	12/25/2007	06/21/2012	MULTI-LEVEL OPERATION IN DUAL ELEMENT CELLS USING A SUPPLEMENTAL PROGRAMMING LEVEL
1387054	AF02272TW	Taiwan	09/06/2007	02/21/2013	METHOD OF SELECTING OPERATING CHARACTERISTICS OF A RESISTIVE MEMORY DEVICE
1454107	AF02282TW	Taiwan	08/13/2007	09/21/2014	MULTIPLE COMMUNICATION CHANNELS ON MMC OR SD CMD LINE
1379304	AF02286TW	Taiwan	11/28/2007	12/11/2012	METHODS AND SYSTEMS FOR MEMORY DEVICES
1368847	AF02301TW	Taiwan	09/06/2007	07/21/2012	VIRTUAL MEMORY CARD CONTROLLER
96140925	AF02315TW	Taiwan	10/31/2007		ERASURE SUSPENSION FEATURE
1374519	AF02322TW	Taiwan	12/21/2007	10/11/2012	A SELF-ALIGNED PATTERNING METHOD BY USING NON-CONFORMAL FILM AND ETCH BACK FOR FLASH MEMORY AND OTHER SEMICONDUCTOR APPLICATIONS
370983	AF02329TW	Taiwan	11/02/2007	08/21/2012	SYSTEM AND METHOD THAT EFFECTUATE SECURE ACCESS TO A FLASH MEMORY COMPONENT AND A SYSTEM THAT DIVIDES A FLASH MEMORY COMPONENT INTO ONE OR MORE PARTITIONS
1393148	AF02335TW	Taiwan	11/02/2007	04/11/2013	SECURE CO-PROCESSING MEMORY CONTROLLER INTEGRATED INTO AN EMBEDDED MEMORY SUBSYSTEM AND METHOD OF OPTIMIZING PROCESSOR UTILIZATION AND CREATING A HEIGHTENED LEVEL OF SECURITY (AS AMENDED)
1356994	AF02337TW	Taiwan	11/02/2007	01/21/2012	USING SHARED MEMORY WITH AN EXECUTE-IN-PLACE PROCESSOR AND A CO-PROCESSOR
443670	AF02436TW	Taiwan	12/25/2007	07/01/2014	RESISTANCE CHANGING MEMORY CELL ARCHITECTURE AND OPERATION METHOD THEREOF
1392097	AF02453TW	Taiwan	05/09/2008	04/01/2013	SELF ALIGNED NARROW STORAGE ELEMENTS FOR ADVANCED MEMORY DEVICE
1407449	AF02465TW	Taiwan	06/12/2008	09/01/2013	TERMINATE CYCLE FOR BURST WRITE OPERATION
1368918	AF02477TW	Taiwan	12/26/2007	07/21/2012	DIVISION-BASED SENSING AND PARTITIONING OF ELECTRONIC MEMORY
97150015	AF02503TW	Taiwan	12/22/2008		CONTROLLING AC DISTURBANCE WHILE PROGRAMMING
97133058	AF02517TW	Taiwan	12/29/2008		SACRIFICIAL NITRIDE AND GATE REPLACEMENT
1441258	AF02518TW	Taiwan	12/29/2008	06/11/2014	GATE REPLACEMENT WITH TOP OXIDE REGROWTH FOR THE TOP OXIDE IMPROVEMENT
1441283	AF02527TW	Taiwan	08/06/2008	06/11/2014	ORO AND ORPRO WITH BITLINE TRENCH TO SUPPRESS TRANSPORT PROGRAM DISTURB
97140795	AF02531TW	Taiwan	02/23/2009		SELECTIVE SILICIDE FORMATION USING RESIST ETCHBACK
416676	AF02559TW	Taiwan	08/05/2008	11/21/2013	THE MANUFACTURING METHOD FOR A CHIP WHICH HAS A THROUGH-HOLE ELECTRODE
97121849	AF02560TW	Taiwan	06/12/2008		DIE ATTACHMENT, DIE STACKING, AND WIRE EMBEDDING USING FILM
404068	AF02563TW	Taiwan	10/13/2008	08/01/2013	NON-VOLATILE MEMORY ARRAY PARTITIONING ARCHITECTURE
97139850	AF02566	Taiwan	10/17/2007	05/17/2011	TAMPER REACTIVE MEMORY DEVICE TO SECURE DATA FROM TAMPER ATTACKS
97134629	AF02572TW	Taiwan	09/10/2008		SECURE MODULAR EXPONENTIATION BY RANDOMIZATION OF EXPONENT SCANNING
1473095	AF02584TW	Taiwan	12/05/2008	02/11/2015	MIRRORBIT PROGRAM / REFRESH ALGORITHM
148511	AF02649TW	Taiwan	10/13/2000	12/01/2001	NONVOLATILE SEMICONDUCTOR MEMORY DEVICE
473280	AF02681TW	Taiwan	12/26/2008	02/11/2015	ARRAYED NEUTRON DETECTOR WITH MULTI SHIELDING ALLOWING FOR DISCRIMINATION BETWEEN RADIATION TYPES
1464884	AF02813TW	Taiwan	12/31/2008	12/11/2014	MIRROR BIT MEMORY DEVICE HAVING TOP INSULATING FILM WITH HIGH ETCHING SELECTIVITY TO GATE OXIDE FILM
97150017	AF02814TW	Taiwan	04/21/2009		EXTENDING FLASH MEMORY DATA RETENTION VIA REWRITE REFRESH
97144628	AF02824TW	Taiwan	11/19/2008		A MEMORY BUFFERING SYSTEM THAT IMPROVES READ/WRITE PERFORMANCE AND PROVIDES LOW LATENCY FOR MOBILE SYSTEMS
97137135	AF02827TW	Taiwan	01/20/2009		OPO MIRROR BIT MEMORY DEVICE HAVING SHALLOW TRENCH ISOLATION
473204	AF02832TW	Taiwan	10/09/2008	02/11/2015	FABRICATING METHOD OF OPO MIRROR BIT MEMORY DEVICE HAVING SHALLOW TRENCH ISOLATION
097148156	AF02839TW	Taiwan	12/11/2008		CONTROL METHOD OF GBL AND LBL IN A READ
407448	AF02850TW	Taiwan	10/13/2008	09/01/2013	CONTROLLED RAMP RATES FOR METAL BITLINES DURING WRITE OPERATIONS FROM HIGH VOLTAGE DRIVER FOR MEMORY APPLICATIONS
458019	AF02862TW	Taiwan	12/16/2008	10/21/2014	HETERO-STRUCTURE VARIABLE SILICON RICHNESS NITRIDE FOR MLC FLASH MEMORY DEVICE
97131679	AF02865TW	Taiwan	08/20/2008		PROCESS OF FORMING AN ELECTRONIC DEVICE INCLUDING DEPOSITING LAYERS WITHIN OPENINGS

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97145619	AF02875TW	Taiwan	11/26/2008		A METHOD FOR SETTING PARAMETERS AND DETERMINING LATENCY IN A CHAINED DEVICE SYSTEM
1464614	AF02907TW	Taiwan	12/29/2008	12/11/2014	METHOD FOR PROTECTING DATA AGAINST DIFFERENTIAL FAULT ANALYSIS INVOLVED IN RSA USING THE CHINESE REMAINDER THEOREM
97146131	AF02908TW	Taiwan	11/28/2008		SONOS-NAND DEVICE HAVING COMPLETELY SEPARATED STORAGE REGIONS
583664	AF04003TW	Taiwan	02/10/2003	04/11/2004	NONVOLATILE SEMICONDUCTOR MEMORY DEVICE PROGRAMMING SECOND DYNAMIC REFERENCE CELL ACCORDING TO THRESHOLD VALUE OF FIRST DYNAMIC REFERENCE CELL
356587	AF04006TW	Taiwan	06/23/1997	04/21/1999	Semiconductor device having interlayer insulator and the method for fabricating thereof
94137782	AF04031PCT	Taiwan	10/28/2005		Non-volatile memory and pseudo-sram based on resonant tunneling concept
1289929	AF04052KR	Taiwan	08/29/2003	11/11/2007	SEMICONDUCTOR MEMORY DEVICE
080501	B038TW	Taiwan	12/28/1995	12/24/1996	METHODS FOR BULK (OR BYTE) CHARGING & DISCHARGING AN ARRAY OF FLASH EEPROM MEMORY CELLS (AS AMENDED)
085073	B047TW	Taiwan	07/29/1995	07/15/1997	NOVEL PROCESSING TECHNIQUES FOR ACHIEVING PRODUCTION WORTHY LOW DIELECTRIC LOW INTERCONNECT RESISTANCE AND HIGH PERFORMANCE
364997	B247ATW	Taiwan	02/05/1997	07/21/1999	A MULTI-LEVEL BITS-PER-CELL FLASH SHIFT REGISTER PAGE BUFFER
089881	B247TW	Taiwan	02/05/1997	01/23/1998	A METHOD FOR DOUBLE DENSITY FLASH EPROM WITH PAGE MODE PROGRAM AND READ
080099	B257TW	Taiwan	12/26/1995	12/06/1996	LOW SUPPLY VOLTAGE NEGATIVE CHARGE PUMP
079936	B258TW	Taiwan	12/26/1995	11/29/1996	A FAST 3 STATE BOOSTER CIRCUIT
097126	B261TW	Taiwan	12/22/1995	01/19/1999	OVERERASE CORRECTION FOR FLASH MEMORY WHICH LIMITS OVERERASE AND PREVENTS ERASE VERIFY ERRORS
117981	B262TW	Taiwan	12/22/1995	11/28/2000	TEMPERATURE COMPENSATED REFERENCE FOR OVER ERASE CORRECTION CIRCUITRY
095140	B287TW	Taiwan	05/13/1997	10/13/1998	A METHOD AND SYSTEM FOR PROVIDING A DOUBLE DIFFUSE IMPLANT JUNCTION IN A VERY SHORT CHANNEL FLASH DEVICE
103593	C061296TW	Taiwan	02/04/1998	06/01/1999	HIGH VOLTAGE CMOS LEVEL SHIFTER
095042	C072296TW	Taiwan	08/16/1996	10/03/1998	USING FLOATING GATE CELLS AS SELECT GATE DEVICES FOR NAND FLASH MEMORY AND ITS BIAS SCHEME
116585	C144496TW	Taiwan	02/26/1998	10/23/2000	HIGH VOLTAGE NMOS PASS GATE FOR INTEGRATED CIRCUIT WITH HIGH VOLTAGE GENERATOR AND FLASH NON-VOLATILE MEMORY DEVICE HAVING THE PASS GATE
127519	C196596TW	Taiwan	12/18/1997	06/14/2001	A FLASH MEMORY DEVICE, NON-VOLATILE MEMORY DEVICE AND METHOD FOR ENABLING SIMULTANEOUS READ AND WRITE OPERATION IN A FLASH OR THE LIKE SEMICONDUCTOR DEVICE
172976	C608497TW	Taiwan	05/11/1999	07/02/2003	SHALLOW TRENCH ISOLATION FILLED WITH THERMAL OXIDE
154126	C695497TW	Taiwan	07/13/2000	08/12/2002	THIN FLOATING GATE AND CONDUCTIVE SELECT GATE IN SITU
141784	C715497TW	Taiwan	09/28/1999	01/24/2002	WORDLINE DRIVER FOR FLASH ELECTRICALLY ERASABLE PROGRAMMABLE READ-ONLY MEMORY (EEPROM)
152323	C725497TW	Taiwan	08/11/2000	07/10/2002	CIRCUIT IMPLEMENTATION TO QUENCH BIT LINE LEAKAGE CURRENT IN PROGRAM AND AUTO PROGRAM DISTURB MODE IN FLASH EPROM USING RESISTOR SOURCE LOAD
142628	D138TW	Taiwan	10/19/1999	02/07/2002	SCHEME FOR PAGE ERASE AND ERASE VERIFY IN A NON-VOLATILE MEMORY ARRAY
088116240	D139US	Taiwan	09/23/1998	08/14/2001	BANK SELECTOR CIRCUIT FOR A SIMULTANEOUS OPERATION FLASH MEMORY DEVICE WITH A FLEXIBLE BANK PARTITION ARCHITECTURE
127139	D140	Taiwan	06/24/1999	06/05/2001	VT REFERENCE VOLTAGE FOR EXTREMELY LOW POWER-SUPPLY
135626	D168TW	Taiwan	09/22/1999	10/26/2001	SIMULTANEOUS OPERATION FLASH MEMORY DEVICE WITH A FLEXIBLE DEVICE WITH A FLEXIBLE BANK PARTITION ARCHITECTURE
136567	D169TW	Taiwan	09/22/1999	11/07/2001	METHOD OF MAKING FLEXIBLY PARTITIONED METAL LINE SEGMENTS FOR A SIMULTANEOUS OPERATION FLASH MEMORY DEVICE WITH A FLEXIBLE BANK PARTITION ARCHITECTURE
136566	D170TW	Taiwan	09/22/1999	11/07/2001	MEMORY ADDRESS DECODING CIRCUIT FOR A SIMULTANEOUS OPERATION FLASH MEMORY DEVICE WITH A FLEXIBLE BANK PARTITION ARCHITECTURE
156301	D802TW	Taiwan	11/02/1999	09/18/2002	METHOD FOR IMPROVING ELECTROSTATIC DISCHARGE (ESD) ROBUSTNESS
143916	D832TW	Taiwan	05/04/2000	03/01/2002	RAMPED OR STEPPED GATE CHANNEL ERASE FOR FLASH MEMORY APPLICATION
150425	D833TW	Taiwan	08/30/2000	06/04/2002	1 TRANSISTOR FOR EEPROM APPLICATION
147880	D838TW	Taiwan	10/27/2000	04/24/2002	SOLID-SOURCE DOPING FOR SOURCE/DRAIN TO ELIMINATE IMPLANT DAMAGE
145800	D844TW	Taiwan	08/01/2000	03/26/2002	RAMPED GATE TECHNIQUE FOR SOFT PROGRAMMING TO TIGHTEN THE Vt DISTRIBUTION
155788	D853TW	Taiwan	11/29/2000	09/10/2002	METHOD TO PROVIDE A REDUCED CONSTANT E-FIELD DURING ERASE OF EEPROMS FOR RELIABILITY IMPROVEMENT
170861	D862TW	Taiwan	04/06/2001	05/26/2003	NEW METHOD TO FABRICATE A HIGH COUPLING FLASH CELL WITH LESS SILICIDE SEAM PROBLEM
147966	D877TW	Taiwan	08/30/2000	04/25/2002	INTEGRATED CIRCUIT HAVING INCREASED GATE COUPLING CAPACITANCE
150436	D894TW	Taiwan	10/06/2000	06/04/2002	METHOD OF MANUFACTURING A SEMICONDUCTOR DEVICE WITH REDUCED ARC LOSS IN PERIPHERAL CIRCUITRY REGION
1248659	D958TW	Taiwan	01/29/2001	02/01/2006	NOVEL NITRIDATION BARRIERS FOR NITRIDATED TUNNEL OXIDE FOR CIRCUITRY FOR FLASH TECHNOLOGY AND FOR LOCOS/STI ISOLATION

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PATENT OR APPL NO.	SPANSION REFERENCE NO.	COUNTRY	FILING DATE	ISSUE DATE	TITLE
168219	DA01011TW	Taiwan	04/27/2001	04/15/2003	A SUBMICRON SEMICONDUCTOR DEVICE HAVING A SELF-ALIGNED CHANNEL STOP REGION AND A METHOD FOR FABRICATING THE SEMICONDUCTOR DEVICE USING A TRIM AND ETCH
142303	DA01016TW	Taiwan	08/05/2000	02/01/2002	METHOD FOR PROVIDING A DOPANT LEVEL FOR POLYSILICON FOR FLASH MEMORY DEVICES
142661	DA01023TW	Taiwan	08/18/2000	02/07/2002	METHOD FOR CONTACT SIZE CONTROL FOR NAND TECHNOLOGY
155827	DA01025TW	Taiwan	04/30/2001	09/10/2002	FLASH MEMORY ARRAY AND A METHOD AND SYSTEM OF FABRICATION THEREOF
164455	DA01028TW	Taiwan	03/28/2001	02/24/2003	METHOD AND SYSTEM FOR PROVIDING CONTACT TO A FIRST POLYSILICON LAYER IN A FLASH MEMORY DEVICE
178330	E0197TW	Taiwan	07/07/2000	09/18/2003	NEW METHOD OF FORMING SELECT GATE TO IMPROVE RELIABILITY AND PERFORMANCE FOR NAND-TYPE FLASH MEMORY DEVICES
152316	E0251TW	Taiwan	07/19/2000	07/10/2002	FLASH MEMORY ARCHITECTURE EMPLOYING THREE LAYER METAL INTERCONNECT
161339	E0255TW	Taiwan	02/26/2001	12/06/2002	CHARGE SHARING TO HELP BOOST THE WORDLINES DURING APDE VERIFY
161525	E0264TW	Taiwan	02/21/2001	12/10/2002	TRIMMING METHOD FOR WORDLINE BOOSTER TO MINIMIZE PROCESS VARIATION OF BOOSTED WORDLINE VOLTAGE
169357	E0302TW	Taiwan	05/14/2001	04/29/2003	UNIFORM BITLINE STRAPPING OF NON-VOLATILE MEMORY CELL
1340294	E0310TW	Taiwan	02/10/2004	04/11/2011	RADIATION SENSITIVE RESIN COMPOSITION, MANUFACTURING METHOD THEREOF AND FABRICATING METHOD OF SEMICONDUCTOR DEVICE USING THE SAME
1271745	E0310WO	Taiwan	10/03/2001	01/21/2007	SELECT TRANSISTOR ARCHITECTURE FOR A VIRTUAL GROUND NON-VOLATILE MEMORY CELL ARRAY
172451	E0322TW	Taiwan	02/26/2001	06/19/2003	SELECTIVE ERASURE OF A NON-VOLATILE MEMORY CELL OF A FLASH MEMORY DEVICE
161338	E0324TW	Taiwan	02/26/2001	12/06/2002	SELECTIVE ERASURE OF A NON-VOLATILE MEMORY CELL OF A FLASH MEMORY DEVICE
207033	E0370TW	Taiwan	03/14/2001	11/08/2004	A DUAL SPACER PROCESS NON-VOLATILE MEMORY DEVICES
202116	E0462TW	Taiwan	05/30/2001	09/15/2004	DUAL PORTED CAMS FOR SIMULTANEOUS OPERATION FLASH MEMORY
182926	E0470TW	Taiwan	06/06/2001	11/28/2003	POWER SAVING ON THE FLY DURING READING OF DATA FROM A MEMORY DEVICE
1222071	E0485	Taiwan	03/01/2000	03/16/2004	INTERLACED MULTI-LEVEL MEMORY
163498	E1030TW	Taiwan	02/21/2001	09/01/2002	TEMPERATURE COMPENSATED BIAS GENERATOR
161049	F0004TW	Taiwan	06/26/2001	12/03/2002	AUTOMATED DETERMINATION AND DISPLAY OF THE PHYSICAL LOCATION OF A FAILED CELL IN AN ARRAY OF MEMORY CELLS
1271822	F01137TW	Taiwan	03/27/2003	01/21/2007	MEMORY MANUFACTURING PROCESS WITH BITLINE ISOLATION
172520	F0257TW	Taiwan	11/06/2001	06/20/2003	METHOD AND SYSTEM FOR EMBEDDED CHIP ERASE VERIFICATION
1286753	F0258TW	Taiwan	01/08/2003	09/11/2007	SOURCE SIDE SENSING SCHEME FOR VIRTUAL GROUND READ OF FLASH EPROM ARRAY WITH ADJACENT BIT PRECHARGE
201755	F0259TW	Taiwan	05/16/2002	09/08/2004	MODULATED CHARGE PUMP WHICH USES AN ANALOG TO DIGITAL CONVERTER TO COMPENSATE FOR SUPPLY VOLTAGE VARIATIONS
1226067	F0260TW	Taiwan	04/10/2002	01/01/2005	METHOD AND APPARATUS FOR BOOSTING BITLINES FOR LOW VCC READ
1295060	F0262TW	Taiwan	01/09/2003	03/21/2008	METHOD AND APPARATUS FOR SOFT PROGRAM VERIFICATION IN A MEMORY DEVICE
207158	F0266TW	Taiwan	05/03/2002	11/09/2004	ERASE METHOD FOR DUAL BIT VIRTUAL GROUND FLASH
1260639	F0272TW	Taiwan	01/08/2003	08/21/2006	CHARGE INJECTION
183343	F0274TW	Taiwan	12/07/2001	12/04/2003	HIGHER PROGRAM VT AND FASTER PROGRAMMING RATES BASED ON IMPROVED ERASE METHODS
1265599	F0279TW	Taiwan	05/17/2002	11/01/2006	ESD IMPLANT FOLLOWING SPACER DEPOSITION
183392	F0280TW	Taiwan	05/03/2002	12/04/2003	METHOD OF MANUFACTURING SPACER ETCH MASK FOR SILICON-OXIDE-NITRIDE-OXIDE-SILICON (SONOS) TYPE NONVOLATILE MEMORY
202199	F0282TW	Taiwan	10/03/2002	09/15/2004	DOUBLE DENSED CORE GATES IN SONOS FLASH MEMORY
191683	F0283TW	Taiwan	10/01/2002	03/24/2004	SALICIDED GATE FOR VIRTUAL GROUND ARRAYS
188690	F0499TW	Taiwan	10/08/2001	02/12/2004	A SOURCE SIDE BORON IMPLANTING AND DIFFUSING DEVICE ARCHITECTURE FOR DEEP SUBSTANCE 0.18UM FLASH MEMORY TECHNOLOGIES
1266316	F0919	Taiwan	12/07/2001	11/11/2006	PIGGYBACK PROGRAMMING USING VOLTAGE CONTROL FOR MULTI-LEVEL CELL FLASH MEMORY DESIGNS
1248675	F0932TW	Taiwan	10/08/2001	02/01/2006	SOURCE SIDE BORON IMPLANT AND DRAIN SIDE MDD IMPLANT FOR DEEP SUB 0.18 MICRON FLASH MEMORY
1221916	F1024TW	Taiwan	03/29/2002	10/11/2004	SYSTEM AND METHOD FOR ERASE TEST OF INTEGRATED CIRCUIT DEVICE HAVING NON-HOMOGENEOUSLY SIZED SECTORS
188956	F1067TW	Taiwan	04/03/2002	02/16/2004	THRESHOLD VOLTAGE COMPACTING FOR NON-VOLATILE SEMICONDUCTOR MEMORY DESIGNS
202161	FMA13-00136KR	Taiwan	05/01/2002	05/11/2004	DC/DC CONVERTER CONTROL CIRCUITS AND DC/DC CONVERTER SYSTEM
329561	FMA13-0017KR	Taiwan	05/18/1995	09/01/2010	SEMICONDUCTOR MEMORY DEVICE
394864	FMA13-0022KR	Taiwan	12/05/2008	05/01/2013	METAL SURFACE TREATMENT COMPOSITION, AND SURFACE-TREATED METAL MATERIAL WITH METAL SURFACE TREATMENT FILM OBTAINED FROM THE METAL SURFACE TREATMENT COMPOSITION
1338836	FMA13-00310TW	Taiwan	07/26/2007	03/11/2011	ERROR PROCESSING METHOD AND INFORMATION PROCESSING APPARATUS
1340319	FMA13-00312TW	Taiwan	10/11/2007	04/11/2011	POWER SUPPLY CIRCUIT, POWER SUPPLY CONTROL CIRCUIT, AND POWER ...
1354436	FMA13-00313TW	Taiwan	04/16/2007	12/11/2011	CONTROLLER FOR DC-DC CONVERTER

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I357709	FMA13-00314TW	Taiwan	07/11/2007	02/01/2012	DC-DC CONVERTER
I363958	FMA13-00315TW	Taiwan	09/13/2007	05/11/2012	CONTROL CIRCUIT OF SYNCHRONOUS RECTIFICATION TYPE POWER SUPPLY UNIT, ...
I356569	FMA13-00317TW	Taiwan	04/23/2007	01/11/2012	DC-DC CONVERTER WITH OSCILLATOR AND MONITORING FUNCTION
I357170	FMA13-00319TW	Taiwan	08/07/2007	01/21/2012	CONTROL CIRCUIT OF POWER SUPPLY UNIT WHICH CONTROL OUTPUT POWER ...
I366333	FMA13-00320TW	Taiwan	01/28/2008	06/11/2012	DC-DC CONVERTER WITH PLURALITY OF SOFT-START CONTROL CIRCUITS
I345357	FMA13-00321TW	Taiwan	01/14/2008	07/11/2011	POWER SUPPLY CIRCUIT, POWER SUPPLY CONTROL CIRCUIT, AND POWER ...
I350060	FMA13-00322TW	Taiwan	12/28/2007	10/01/2011	FRACTIONAL FREQUENCY DIVIDER PLL DEVICE AND CONTROL METHOD THEREOF
I338995	FMA13-00323TW	Taiwan	09/12/2007	03/11/2011	METHOD AND CIRCUIT FOR CONTROLLING DC-DC CONVERTER
I354434	FMA13-00327TW	Taiwan	11/09/2007	12/11/2011	CONTROL CIRCUIT FOR DETECTING A REVERSE CURRENT IN A DC-DC CONVERTER
I349411	FMA13-00328TW	Taiwan	11/05/2007	09/21/2011	CONTROL CIRCUIT FOR SYNCHRONOUS RECTIFIER-TYPE DC-DC CONVERTER, SYNCHRONOUS RECTIFIER-TYPE DC-DC CONVERTER AND CONTROL METHOD THEREOF
I349415	FMA13-00329TW	Taiwan	11/05/2007	09/21/2011	CONTROL CIRCUIT FOR CURRENT MODE DC-DC CONVERTER AND CONTROL METHOD OF CURRENT MODE DC-DC CONVERTER
304684	FMA13-00344KR	Taiwan	07/30/2003	12/21/2008	PLL CLOCK GENERATOR CIRCUIT AND CLOCK GENERATION METHOD
I356174	FMA13-00347TW	Taiwan	12/28/2007	01/11/2012	DETECTION CIRCUIT
I356170	FMA13-00350TW	Taiwan	12/28/2007	01/11/2012	DETECTION CIRCUIT
I353102	FMA13-00357KR	Taiwan	05/25/2007	11/21/2011	STEP-UP/STEP-DOWN TYPE DC-DC CONVERTER, AND CONTROL CIRCUIT AND CONTROL METHOD OF THE SAME
I231373	FMA13-00380JP DIV2	Taiwan	04/14/2003	04/21/2005	METHOD FOR PREDICTING REMAINING CHARGE OF PORTABLE ELECTRONICS BATTERY
234758	FMA13-00381KR	Taiwan	03/26/2004	06/21/2005	OPERATION AMPLIFIER, LINE DRIVER, AND LIQUID CRYSTAL DISPLAY DEVICE
439254	FMA13-00382KR	Taiwan	04/09/2009	06/01/2014	SELECTOR AND MULTILAYER INTERCONNECTION WITH REDUCED OCCUPIED AREA ON SUBSTRATE
338870	FMA13-0042KR	Taiwan	12/20/2004	03/11/2011	SCATTERING LIGHT SMOKE DETECTOR
90048	FMA13-0043KR	Taiwan	11/19/1996	10/01/1997	SEMICONDUCTOR INTEGRATED CIRCUIT OPERABLE AS A PHASE-LOCKED LOOP
192065	FMA13-00449KR	Taiwan	02/04/2002	12/01/2003	SEMICONDUCTOR INTEGRATED CIRCUIT DEVICE
227330	FMA13-00450JP DIV	Taiwan	08/27/2003	02/01/2005	SEMICONDUCTOR INTEGRATED CIRCUIT DEVICE, AND ADJUSTMENT METHOD OF SEMICONDUCTOR INTEGRATED CIRCUIT DEVICE
I335713	FMA13-00533KR	Taiwan	05/23/2006	01/01/2011	POWER SOURCE CONTROL CIRCUIT, POWER SUPPLY DEVICE, AND CONTROL METHOD FOR THE SAME
169106	FMA13-00536JP	Taiwan	03/23/2001	12/11/2002	CHARGE CIRCUIT THAT PERFORMS CHARGE CONTROL BY COMPARING A PLURALITY OF BATTERY VOLTAGES
279965	FMA13-00539JP	Taiwan	01/07/2002	04/21/2007	OVERVOLTAGE-PROTECTIVE DEVICE FOR POWER SYSTEM, AC/DC CONVERTER AND DC/DC CONVERTER CONSTITUTING THE POWER SYSTEM
222556	FMA13-00541JP	Taiwan	02/26/2002	10/21/2004	CONTROL CIRCUIT OF DC-DC CONVERTER
I224304	FMA13-00543TW	Taiwan	10/21/2002	11/21/2004	SEMICONDUCTOR DEVICE EQUIPPED WITH TRANSFER CIRCUIT FOR CASCADE CONNECTION
I306696	FMA13-00544TW	Taiwan	02/27/2002	02/21/2009	MODE SWITCHING METHOD FOR PLL CIRCUIT AND MODE CONTROL CIRCUIT FOR PLL CIRCUIT
227944	FMA13-00547KR	Taiwan	11/18/2003	02/11/2005	SEMICONDUCTOR INTEGRATED CIRCUIT
I234338	FMA13-00548JP	Taiwan	03/17/2004	06/11/2005	DC/DC CONVERTER
I244582	FMA13-00549PCT	Taiwan	04/18/2003	12/01/2005	CONSTANT-VOLTAGE POWER SUPPLY CIRCUIT
203279	FMA13-00551KR	Taiwan	12/09/2002	05/21/2004	BIPOLAR SUPPLY VOLTAGE GENERATOR AND SEMICONDUCTOR DEVICE FOR SAME
I328920	FMA13-00554JP	Taiwan	03/22/2006	08/11/2010	DC-DC CONVERTER CONTROL CIRCUIT AND DC-DC CONVERTER CONTROL METHOD
I325677	FMA13-00556KR	Taiwan	05/24/2006	06/01/2010	DC LINEAR REGULATOR SINGLE CONTROLLER WITH PLURAL LOADS
I342651	FMA13-00561KR	Taiwan	08/28/2006	05/21/2011	CIRCUIT AND METHOD FOR CONTROLLING DC-DC CONVERTER
I312609	FMA13-00562KR	Taiwan	05/24/2006	07/21/2009	CURRENT-CONTROLLED DC-DC CONVERTER CONTROL CIRCUIT, CURRENT-CONTROLLED DC-DC CONVERTER, AND METHOD FOR CONTROLLING CURRENT-CONTROLLED DC-DC CONVERTER
I342650	FMA13-00563TW	Taiwan	09/22/2006	05/21/2011	CONTROL CIRCUIT OF POWER SUPPLY AND CONTROL METHOD OF THE POWER SUPPLY
I337696	FMA13-00564TW	Taiwan	08/23/2006	02/21/2011	ELECTRONIC DEVICE INCORPORATING SYSTEM POWER SUPPLY UNIT AND METHOD FOR SUPPLYING POWER SUPPLY VOLTAGE
I338832	FMA13-00565KR	Taiwan	09/07/2007	03/11/2011	POWER SUPPLY SYSTEM AND METHOD FOR CONTROLLING OUTPUT VOLTAGE
I342657	FMA13-00566KR	Taiwan	09/22/2006	05/21/2011	DC-DC CONVERTER CONTROL CIRCUIT, DC-DC CONVERTER, POWER SUPPLY UNIT, AND DC-DC CONVERTER CONTROL METHOD
I326153	FMA13-00569KR	Taiwan	08/31/2006	06/11/2010	CONTROL CIRCUIT OF POWER SUPPLY, POWER SUPPLY AND CONTROL METHOD THEREOF
I368378	FMA13-00573TW	Taiwan	02/15/2008	07/11/2012	POWER SUPPLY CIRCUIT, POWER SUPPLY CONTROL CIRCUIT, AND POWER SUPPLY CONTROL METHOD
179404	FMA13-0070KR	Taiwan	11/24/1998	06/01/2003	TRANSISTOR OUTPUT CIRCUIT
429601	FMA13-0082TW	Taiwan	01/06/2012	03/11/2014	SEMICONDUCTOR DEVICE HAVING CURRENT AUXILIARY CIRCUIT FOR OUTPUT CIRCUIT
416239	FMA13-0085TW00	Taiwan	12/10/1998	12/21/2000	DRIVER FOR A LIQUID-CRYSTAL DISPLAY PANEL

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180034	FMA13-0087KR	Taiwan	11/25/1999	06/11/2003	SEMICONDUCTOR MEMORY AND OUTPUT SIGNAL CONTROL METHOD AND CIRCUIT IN SEMICONDUCTOR MEMORY
191239	FMA13-0091KR	Taiwan	05/11/2000	11/11/2003	LCD PANEL DRIVING CIRCUIT
152955	FMA13-0095JP	Taiwan	02/29/2000	03/11/2002	OUTPUT CIRCUIT AND BATTERY PACK
166903	FMA13-0100JP	Taiwan	02/07/2001	11/01/2002	DC-DC CONVERTER AND SEMICONDUCTOR INTEGRATED CIRCUIT DEVICE FOR DC-DC CONVERTER
552572	FMA13-0105KR DIV	Taiwan	12/15/2000	09/11/2003	SEMICONDUCTOR INTEGRATED CIRCUIT FOR DRIVING LIQUID CRYSTAL PANEL
1224894	FMA13-0108KR	Taiwan	01/05/2001	12/01/2004	PLL SEMICONDUCTOR DEVICE WITH TESTABILITY, AND METHOD AND APPARATUS FOR TESTING SAME
494383	FMA13-0110KR	Taiwan	03/26/2001	07/11/2002	DOT-INVERSION DATA DRIVER FOR LIQUID CRYSTAL DISPLAY DEVICE
165803	FMA13-0111JP	Taiwan	02/05/2001	10/11/2002	DISCHARGE CONTROL CIRCUIT OF BATTERIES
193279	FMA13-0122KR	Taiwan	03/05/2002	12/21/2003	DC-DC CONVERTER, POWER SUPPLY CIRCUIT, METHOD FOR CONTROLLING DC-DC CONVERTER, AND METHOD FOR CONTROLLING POWER SUPPLY CIRCUIT
178799	FMA13-0129KR	Taiwan	03/19/2002	05/21/2003	OPERATION AMPLIFIER HAVING OFFSET CANCEL FUNCTION
552583	FMA13-0132TW	Taiwan	02/04/2002	09/11/2003	NONVOLATILE SEMICONDUCTOR MEMORY DEVICE
200307	FMA13-0133KR	Taiwan	05/02/2002	04/11/2004	REGULATOR CIRCUIT AND CONTROL METHOD THEREOF
198454	FMA13-0147KR	Taiwan	01/09/2003	03/01/2004	INTEGRATED CIRCUIT FREE FROM ACCUMULATION OF DUTY RATIO ERRORS
1280745	FMA13-0149JP DIV	Taiwan	12/30/2002	05/01/2007	PULSE WIDTH DETECTION CIRCUIT
204724	FMA13-0151KR	Taiwan	01/16/2003	06/11/2004	DC-DC CONVERTER, DUTY-RATIO SETTING CIRCUIT AND ELECTRIC APPLIANCE USING THEM
222050	FMA13-0164KR	Taiwan	05/06/2003	10/11/2004	SEMICONDUCTOR DEVICE, DISPLAY DEVICE, AND SIGNAL TRANSMISSION SYSTEM
225726	FMA13-0171KR	Taiwan	07/24/2003	12/21/2004	CONTROL CIRCUIT FOR DC/DC CONVERTER
279988	FMA13-0177KR	Taiwan	12/23/2003	04/21/2007	SPREAD SPECTRUM CLOCK GENERATION CIRCUIT, JITTER GENERATION CIRCUIT AND SEMICONDUCTOR DEVICE
221675	FMA13-0178PCT	Taiwan	03/03/2003	10/01/2004	MOS TYPE VARIABLE CAPACITANCE DEVICE
276289	FMA13-0210JP	Taiwan	09/29/2004	03/11/2007	SWITCHING REGULATOR CONTROL CIRCUIT, SWITCHING REGULATOR AND SWITCHING REGULATOR CONTROL METHOD
275808	FMA13-0211KR	Taiwan	03/29/2005	03/11/2007	CAPACITANCE DIFFERENCE DETECTING CIRCUIT AND MEMS SENSOR
281204	FMA13-0224KR	Taiwan	01/24/2005	05/11/2007	SEMICONDUCTOR DEVICE
288522	FMA13-0226KR	Taiwan	11/04/2004	10/11/2007	CIRCUIT AND METHOD FOR CONTROLLING DC-DC CONVERTER
1276290	FMA13-0231TW	Taiwan	03/17/2005	03/11/2007	SEMICONDUCTOR DEVICE, PRINTED-CIRCUIT BOARD AND ELECTRONICS DEVICE
1294207	FMA13-0232JP	Taiwan	05/04/2005	03/01/2008	DC-DC CONVERTER AND CONTROL CIRCUIT DEVICE FOR DC-DC CONVERTER
1279068	FMA13-0233JP	Taiwan	05/04/2005	04/11/2007	MULTI-PHASE DC-DC CONVERTER AND CONTROL CIRCUIT FOR MULTI-PHASE ...
1311008	FMA13-0237JP	Taiwan	05/09/2005	06/11/2009	SIGNAL DETECTION METHOD, FREQUENCY DETECTION METHOD, POWER ...
1322576	FMA13-0238TW	Taiwan	05/19/2005	03/21/2010	SPREAD SPECTRUM CLOCK GENERATION CIRCUIT AND A METHOD OF CONTROLLING THEREOF
1279067	FMA13-0240JP	Taiwan	05/25/2005	04/11/2007	MULTIPHASE DC-DC CONVERTER
1281605	FMA13-0241JP	Taiwan	05/17/2005	05/21/2007	EARLY EFFECT CANCELING CIRCUIT, DIFFERENTIAL AMPLIFIER, LINEAR REGULATOR ...
1277279	FMA13-0246JP	Taiwan	07/22/2005	03/21/2007	CONTROL CIRCUIT AND CONTROL METHOD OF CURRENT MODE ... DC-DC CONVERTER
512571	FMA13-0254TW	Taiwan	03/21/2001	12/01/2002	CHARGE-DISCHARGE CONTROL CIRCUIT AND SECONDARY BATTERY
1303516	FMA13-0255JP	Taiwan	08/31/2005	11/21/2008	OPERATIONAL AMPLIFIER AND METHOD FOR CANCELING OFFSET VOLTAGE OF ...
1289206	FMA13-0256KR	Taiwan	01/18/2006	11/01/2007	SEMICONDUCTOR DEVICE WITH OPERATION MODE SET BY EXTERNAL RESISTOR
1309496	FMA13-0257KR	Taiwan	02/09/2006	05/01/2009	DC-DC CONVERTER AND ITS CONTROL METHOD, AND SWITCHING REGULATOR ...
1294220	FMA13-0260KR	Taiwan	11/14/2005	03/01/2008	SUCCESSIVE APPROXIMATION A/D CONVERTER PROVIDED WITH SAMPLE-HOLD ...
1308425	FMA13-0266KR	Taiwan	11/14/2005	04/01/2009	CLOCK GENERATING CIRCUIT AND CLOCK GENERATING METHOD
1304685	FMA13-0269JP	Taiwan	12/15/2005	12/21/2008	CLOCK GENERATING CIRCUIT AND CLOCK GENERATING METHOD
1315123	FMA13-0273KR	Taiwan	01/25/2006	09/21/2009	DC-DC CONVERTER AND METHOD OF CONTROLLING DC-DC CONVERTER
1347066	FMA13-0276KR	Taiwan	03/06/2006	08/11/2011	CONTROLLER AND CONTROL METHOD FOR DC-DC CONVERTER
1312226	FMA13-0278KR	Taiwan	02/24/2006	07/11/2009	STEP-UP (BOOST) DC REGULATOR WITH TWO-LEVEL BACK BIAS SWITCH GATE ...
1309497	FMA13-0279JP	Taiwan	02/24/2006	05/01/2009	DC-DC CONVERTER CONTROL CIRCUIT AND METHOD
1307205	FMA13-0280KR	Taiwan	03/06/2006	03/01/2009	CONTROL CIRCUIT AND CONTROL METHOD FOR DC/DC CONVERTER
1366973	FMA13-0281KR	Taiwan	04/04/2006	06/21/2012	CONTROL CIRCUIT HAVING ERROR AMPLIFIER FOR DC-DC CONVERTER AND ...
1320264	FMA13-0288TW	Taiwan	07/31/2006	02/01/2010	PULSE WIDTH MODULATION CIRCUIT
1317203	FMA13-0296JP	Taiwan	06/07/2006	11/11/2009	OPERATIONAL AMPLIFIER
1327420	FMA13-0300TW	Taiwan	07/14/2006	07/11/2010	COMMON INPUT/OUTPUT TERMINAL CONTROL CIRCUIT
1331839	FMA13-0302KR	Taiwan	05/17/2006	10/11/2010	DC-DC CONVERTER AND CONTROL CIRCUIT FOR DC-DC CONVERTER
1222075	G0063TW	Taiwan	03/29/2002	10/11/2004	ACCURATE VERIFY APPARATUS AND METHOD FOR NOR FLASH MEMORY CELLS IN THE PRESENCE OF HIGH COLUMN LEAKAGE
186537	G0074TW	Taiwan	05/10/2002	01/29/2004	SOURCE DRAIN IMPLANT DURING ONO FORMATION FOR IMPROVED ISOLATION OF SONOS DEVICES

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192506	G0259TW	Taiwan	04/03/2002	04/07/2004	FLASH MEMORY DEVICE WITH INCREASE OF EFFICIENCY DURING AN APDE (AUTOMATIC PROGRAM DISTURB AFTER ERASE) PROCESS
92118440	G0391	Taiwan	07/22/2002		BUILT-IN-SELF-TEST (BIST) OF FLASH MEMORY CELLS AND IMPLEMENTATION OF BIST INTERFACE
I278959	G0689TW	Taiwan	12/19/2002	12/22/2006	SHALLOW TRENCH ISOLATION APPROACH FOR IMPROVED STI CORNER ROUNDING
I336489	G0730TW	Taiwan	11/10/2003	01/21/2011	METHOD AND SYSTEM FOR REDUCING CONTACT DEFECTS USING NON CONVENTIONAL CONTACT FORMATION METHOD FOR SEMICONDUCTOR CELLS
I 342062	G0752TW	Taiwan	01/16/2004	05/11/2011	IMPROVED PERFORMANCE IN FLASH MEMORY DEVICES
I288417	G0861TW	Taiwan	03/27/2003	10/11/2007	IMPROVED ERASE METHOD FOR SINGLE SIDED MIRROR OPERATION
I321324	G0862TW	Taiwan	04/08/2002	03/01/2010	REFRESH SCHEME FOR DYNAMIC PAGE PROGRAMMING
092105307	G0863US	Taiwan	03/13/2002	10/28/2003	OVERERASE CORRECTION METHOD
I286754	G0864TW	Taiwan	03/28/2003	09/11/2007	ALGORITHM DYNAMIC REFERENCE PROGRAMMING
92123111	G0865TW	Taiwan	08/22/2003		METHOD AND SYSTEM FOR DEFINING A REDUNDANCY WINDOW AROUND A PARTICULAR COLUMN IN A MEMORY ARRAY
300566	G0866TW	Taiwan	04/29/2003	09/01/2008	STEPPED PRE-ERASE VOLTAGE FOR MIRRORBIT ERASE
92123106	G0871TW	Taiwan	08/22/2003		LATERAL DOPED CHANNEL
I262505	G1255TW	Taiwan	02/11/2003	09/21/2006	PARTIAL PAGE PROGRAMMING OF MULTI LEVEL FLASH
415257	H0290TW	Taiwan	12/01/2005	11/11/2013	POLYMER-BASED TRANSISTOR DEVICES, METHODS, AND SYSTEMS
92122216	H0297TW	Taiwan	08/13/2003		CONTROL OF MEMORY ARRAYS UTILIZING ZENER DIODE-LIKE DEVICES
I397918	H0325TW	Taiwan	09/23/2005	06/01/2013	CONTROL OF MEMORY DEVICES POSSESSING VARIABLE RESISTANCE CHARACTERISTICS
I327338	H0343TW	Taiwan	08/29/2003	07/11/2010	MOCVD FORMATION OF Cu ₂ S
I363370	H0346TW	Taiwan	04/01/2005	05/01/2012	IN-SITU SURFACE TREATMENT FOR MEMORY CELL FORMATION
I 332719	H0354TW	Taiwan	03/05/2004	11/01/2010	SPIN ON POLYMERS FOR ORGANIC MEMORY DEVICES
389366	H0368TW	Taiwan	03/31/2005	03/11/2013	POLYMER DIELECTRICS FOR MEMORY ELEMENT ARRAY INTERCONNECT
I311764	H0385TW	Taiwan	09/15/2003	07/01/2009	SELF ALIGNED MEMORY ELEMENT AND WORDLINE
I359495	H0416TW	Taiwan	10/13/2004	03/01/2012	SIDEWELL FORMATION FOR HIGH DENSITY POLYMER MEMORY ELEMENT ARRAY
I368296	H0422TW	Taiwan	06/03/2004	07/11/2012	POLYMER MEMORY DEVICE FORMED IN VIA OPENING
I356470	H0423TW	Taiwan	09/30/2004	01/11/2012	SELF ASSEMBLY OF CONDUCTING POLYMER FOR FORMATION OF POLYMER MEMORY CELL
92122325	H0434TW	Taiwan	08/14/2003		STACKED ORGANIC MEMORY DEVICES AND METHODS OF OPERATING AND FABRICATING
I362720	H0437TW	Taiwan	05/21/2004	04/21/2012	PLANAR POLYMER MEMORY DEVICE
95138344	H0439TW	Taiwan	10/18/2006		SYSTEM AND METHOD FOR PROCESSING AN ORGANIC MEMORY CELL
I354388	H0442TW	Taiwan	06/30/2004	12/11/2011	ORGANIC MEMORY DEVICE AND METHODS OF USING AND MAKING THE DEVICE
I344194	H0443TW	Taiwan	04/23/2004	06/21/2011	ERASING AND PROGRAMMING AN ORGANIC MEMORY DEVICE AND METHODS OF OPERATING AND FABRICATING
I327372	H0496TW	Taiwan	11/10/2003	07/11/2010	MEMORY DEVICE HAVING A P+ GATE AND THIN BOTTOM OXIDE AND METHOD OF ERASING SAME
I329339	H0514TW	Taiwan	08/13/2003	08/21/2010	NITROGEN OXIDATION TO REDUCE ENCROACHMENT
I 351589	H0541TW	Taiwan	08/04/2004	11/01/2011	LOW POWER CHARGE PUMP
I320182	H0570TW	Taiwan	09/03/2003	02/01/2010	IMPROVED SYSTEM FOR PROGRAMMING A NON-VOLATILE MEMORY CELL
I323894	H0575TW	Taiwan	09/03/2003	04/21/2010	IMPROVED PRE-CHARGE METHOD FOR READING A NON-VOLATILE MEMORY CELL ARRAY WITH STAGGERED LOCAL INTER-CONNECT STRUCTURE
I 345241	H0576TW	Taiwan	10/12/2004	07/11/2011	RECESS CHANNEL FLASH ARCHITECTURE FOR REDUCED SHORT CHANNEL EFFECT
I359461	H0577TW	Taiwan	10/11/2004	03/01/2012	METHOD OF PROGRAMMIN DUAL CELL MEMORY DEVICE TO STORE MULTIPLE DATA STATES PER CELL
I362666	H0587TW	Taiwan	03/18/2004	04/21/2012	METHOD OF DUAL CELL MEMORY DEVICE OPERATION FOR IMPROVED END-OF-LIFE READ MARGIN
I326875	H0588TW	Taiwan	03/24/2004	07/01/2010	IMPROVED METHOD FOR READING A NON-VOLATILE MEMORY CELL ADJACENT TO AN INACTIVE REGION OF A NON-VOLATILE MEMORY CELL ARRAY AND RELATED MEMORY CELL ARRAY
I36474	H0625TW	Taiwan	01/15/2004	01/21/2011	MEMORY DEVICE AND METHOD USING POSITIVE GATE STRESS TO RECOVER OVERERASED CELL
I363349	H0626TW	Taiwan	09/30/2004	05/01/2012	UV BLOCKING LAYER FOR REDUCING UV-INDUCED CHARGING OF SONOS DUAL-BIT FLASH MEMORY DEVICES IN BEOL PROCESSING
I361474	H0671TW	Taiwan	01/16/2004	04/01/2012	CASCADE AMPLIFIER CIRCUIT FOR PRODUCING A FAST, STABLE AND ACCURATE BITLINE VOLTAGE
92123108	H1203	Taiwan	07/10/2003		SELECTION CIRCUIT FOR ACCURATE MEMORY READ OPERATIONS
I 348704	H1204TW	Taiwan	01/16/2004	09/11/2011	CIRCUIT FOR ACCURATE MEMORY READ OPERATIONS
I 328815	H1205TW	Taiwan	09/03/2003	08/11/2010	PECVD SILICON-RICH OXIDE LAYER FOR REDUCED UV CHARGING
I376729	H1368TW	Taiwan	06/30/2004	11/11/2012	NON-VOLATILE MEMORY DEVICE
I 344692	H1414TW	Taiwan	06/10/2004	07/01/2011	FLASH MEMORY DEVICE
I358134	H1415TW	Taiwan	12/03/2004	02/11/2012	CIRCUIT FOR FAST AND ACCURATE MEMORY READ OPERATIONS
I333215	H1513TW	Taiwan	03/05/2004	11/11/2010	MEMORY CELL STRUCTURE HAVING NITRIDE LAYER WITH REDUCED CHARGE LOSS AND METHOD FOR FABRICATING SAME
I382529	H1862TW	Taiwan	09/03/2004	01/11/2013	FAST, ACCURATE AND LOW POWER SUPPLY VOLTAGE BOOSTER USING A/D CONVERTER
I325136	H1892TW	Taiwan	03/18/2004	05/21/2010	

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94114206	H1984TW	Taiwan	05/03/2005		METHODS AND APPARATUS FOR WORDLINE PROTECTION IN FLASH MEMORY DEVICES
I357113	H1985TW	Taiwan	01/07/2005	01/21/2012	POCKET IMPLANT FOR COMPLEMENTARY BIT DISTURB IMPROVEMENT AND CHARGING IMPROVEMENT OF SONOS MEMORY CELL
387048	H1990TW	Taiwan	08/02/2005	02/21/2013	METHOD OF FORMING NARROWLY SPACED FLASH MEMORY CONTACT OPENINGS AND LITHOGRAPHY MASKS
I381457	H1993TW	Taiwan	05/10/2005	01/01/2013	BITLINE IMPLANT UTILIZING DUAL POLY
95111926	H1998	Taiwan	04/04/2006		NON-CRITICAL COMPLEMENTARY MASKING METHOD FOR POLY-1 DEFINITION IN FLASH MEMORY DEVICE FABRICATION
95123101	H2114TW	Taiwan	07/01/2006		USE OF SUPERCRITICAL FLUID TO DRY WAFER AND CLEAN LANS IN IMMERSION LITHOGRAPHY
102740	JC137496TW	Taiwan	06/23/1997	08/31/1999	SEMICONDUCTOR DEVICE HAVING INTERLAYER INSULATOR AND METHOD FOR FABRICATING THEREOF
148296	JC684497TW	Taiwan	11/26/1999	05/01/2002	HIGH YIELD, HIGH PERFORMANCE SEMICONDUCTOR PROCESS FLOW FOR NAND FLASH MEMORY PRODUCTS
I421878	JDE0584TW	Taiwan	04/26/2006	01/01/2014	PORTABLE WIRELESS DATA STORAGE DEVICE
I371755	P-5484-TW	Taiwan	10/28/2004	09/01/2012	METHOD, SYSTEM AND CIRCUIT FOR PROGRAMMING A NON-VOLATILE MEMORY ARRAY
I363350	P-5487-TW	Taiwan	10/28/2004	05/01/2012	METHOD CIRCUIT AND SYSTEM FOR DETERMINING A REFERENCE VOLTAGE
I381382	P-5487-TW1	Taiwan	10/27/2004		METHOD FOR READ ERROR DETECTION IN A NON-VOLATILE MEMORY ARRY
I379306	P-5675-TW	Taiwan	12/03/2004	12/11/2012	APPARATUS AND METHODS FOR MULTI-LEVEL SENSING IN A MEMORY ARRAY
097122346	P-6628US CIP	Taiwan	07/09/2008		METHOD FOR READING NON-VOLATILE MEMORY CELLS
NI-103163	P-878TW	Taiwan	08/14/1997	05/21/1999	NON-VOLATILE SEMICONDUCTOR MEMORY CELL UTILIZING ASYMMETRICAL CHARGE TRAPPING
I286758	SE0002TW	Taiwan	04/15/2003	09/11/2007	A SYSTEM AND METHOD OF ERASE VOLTAGE CONTROL DURING MULTIPLE SECTOR ERASE OF A FLASH MEMORY DEVICE
102135803	SP09-0008TW	Taiwan	10/03/2013		IMPROVED SPACER DESIGN TO PREVENT TRAPPED ELECTRONS
102127733	SP09-0058TW	Taiwan	08/02/2013		POWER SAVINGS APPARATUS AND METHOD FOR MEMORY DEVICE USING DELAY LOCKED LOOP
101148011	SP11-0021TW	Taiwan	12/18/2012		APPARATUS AND METHOD FOR A REDUCED PIN COUNT (RPC) MEMORY BUS INTERFACE INCLUDING A READ DATA STROBE SIGNAL
101148010	SP11-0034KR	Taiwan	12/18/2012		CONTINUOUS READ BURST SUPPORT AT HIGH CLOCK RATES
102115391	SP11-0044TW	Taiwan	04/30/2013		POWER-EFFICIENT VOICE ACTIVATION
102111841	SP12-0013TW	Taiwan	04/02/2013		ADAPTIVELY PROGRAMMING OR ERASING FLASH MEMORY BLOCKS
102127388	SP12-0021TW	Taiwan	07/31/2013		BITLINE VOLTAGE REGULATION IN NON-VOLATILE MEMORY
102135802	SP12-0034 TW	Taiwan	10/03/2013		SUPPLY POWER DEPENDENT CONTROLLABLE WRITE THROUGHPUT FOR MEMORY APPLICATIONS
104105547	SP13-0036TW	Taiwan	02/17/2015		MEMORY SUBSYSTEM WITH WRAPPED-TO-CONTINUOUS READ
I 448899	SPSNP1223TW	Taiwan	12/12/2008	08/11/2014	REFERENCE-FREE SAMPLED SENSING
EP0631285	A901/1997GB	United Kingdom	04/11/1994	12/23/1998	VOLTAGE SUPPLY DETECTION
0656628	A938GB	United Kingdom	11/10/1994	04/09/2003	PROGRAMMED REFERENCE
0677850	A960/2054GB	United Kingdom	03/23/1995	05/09/2001	METHOD AND APPARATUS FOR PROGRAMMING MEMORY DEVICES
0690508	A976/2067GB	United Kingdom	06/20/1995	09/11/2002	HIGH ENERGY BURIED LAYER IMPLANT TO PROVIDE A LOW RESISTANCE P-WELL IN A FLASH EPROM ARRAY
1222663	AF01002GB	United Kingdom	10/07/2000	06/30/2004	LOW VOLTAGE READ CASCODE FOR 2V/3V AND DIFFERENT BANK COMBINATIONS WITHOUT METAL OPTIONS FOR A SIMULTANEOUS OPERATION FLASH MEMORY DEVICE
1234324	AF01054GB	United Kingdom	10/16/2000	10/04/2006	HIGH TEMPERATURE OXIDE DEPOSITION PROCESS FOR FABRICATING AN ONO FLOATING-GATE ELECTRODE IN A TWO BIT EEPROM DEVICE
1344221	AF01073GB	United Kingdom	07/31/2001	11/05/2008	WORD LINE DECODING ARCHITECTURE IN A FLASH MEMORY
1266377	AF01075GB	United Kingdom	03/12/2001	09/12/2007	MULTIPLE BANK SIMULTANEOUS OPERATION FOR A FLASH MEMORY
1295294	AF01076GB	United Kingdom	05/21/2001	01/25/2005	BURST ARCHITECTURE FOR A FLASH MEMORY
1327193	AF01078GB	United Kingdom	07/17/2001	02/21/2007	BURST READ INCORPORATING OUTPUT BASED REDUNDANCY
1297534	AF01085GB	United Kingdom	06/04/2001	03/14/2007	METHOD TO REDUCE CAPACITIVE LOADING IN FLASH MEMORY X-DECODER FOR ACCURATE VOLTAGE CONTROL AT WORDLINES AND SELECT LINES
1226586	AF01086GB	United Kingdom	09/29/2000	06/18/2003	A WORD LINE TRACKING STRUCTURE FOR USE IN AN ARRAY OF FLASH EEPROM MEMORY CELLS
2391985	AF01090GB	United Kingdom	11/14/2001	11/24/2004	I/O PARTITIONING AND METHODOLOGY TO REDUCE BAND-TO-BAND TUNNELING CURRENT DURING ERASE
1415302	AF01096GB	United Kingdom	12/12/2001	12/07/2005	SOFT PROGRAM AND SOFT PROGRAM VERIFY OF THE CORE CELLS IN FLASH MEMORY ARRAY
1338034	AF01102GB	United Kingdom	08/07/2001	01/06/2010	SIMULTANEOUS FORMATION CHARGE STORAGE AND BITLINE TO WORDLINE ISOLATION
1338037	AF01112GB	United Kingdom	11/15/2001	03/30/2011	NON-VOLATILE SONOS SEMICONDUCTOR MEMORY DEVICE
1495471	AF01116GB	United Kingdom	03/03/2003	10/17/2007	SYSTEM AND METHOD FOR MULTI-BIT FLASH READS USING DUAL DYNAMIC REFERENCES
2407913	AF01132GB	United Kingdom	01/21/2003	10/19/2005	HARD MASK PROCESS FOR MEMORY DEVICE WITHOUT BITLINE SHORTS
1493185	AF01137GB	United Kingdom	02/14/2003	11/11/2009	MEMORY MANUFACTURING PROCESS WITH BITLINE ISOLATION
1636801	AF01169GB	United Kingdom	05/21/2004	11/02/2006	MEMORY WITH A CORE-BASED VIRTUAL GROUND AND DYNAMIC REFERENCE SENSING SCHEME
1665387	AF01182GB	United Kingdom	05/21/2004	08/13/2008	MEMORY DEVICE AND METHOD OF ERASING THE SAME

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2434030	AF01209GB	United Kingdom	04/13/2004	01/09/2008	METHOD FOR REDUCING SHORT CHANNEL EFFECTS IN MEMORY CELLS AND RELATED STRUCTURE
2430802	AF01232GB	United Kingdom	04/29/2005	01/14/2009	BOND PAD STRUCTURE FOR COPPER METALLIZATION HAVING INCREASED RELIABILITY AND METHOD FOR FABRICATING SAME
2427494	AF01241GB	United Kingdom	04/13/2004	01/16/2008	NEW COMMAND FOR SECTOR PROTECTION
2427731	AF01248GB	United Kingdom	04/21/2004	10/21/2008	NON-VOLATILE SEMICONDUCTOR DEVICE AND METHOD FOR AUTOMATICALLY RECOVERING ERASE FAILURE IN THE DEVICE
0701432.7	AF01306GB	United Kingdom	06/30/2005		SWITCHABLE MEMORY DIODE- A NEW MEMORY DEVICE
2432245	AF01320GB	United Kingdom	08/08/2005	03/19/2008	SYSTEMS AND METHODS FOR ADJUSTING PROGRAMMING THRESHOLDS OF POLYMER MEMORY CELLS
2432700	AF01321DE	United Kingdom	08/08/2005	06/04/2008	POLYMER MEMORY DEVICE WITH VARIABLE PERIOD OF RETENTION TIME
1788582	AF01329GB	United Kingdom	08/30/2004	04/28/2010	ERASE METHOD OF A NON-VOLATILE MEMORY DEVICE AND A NON-VOLATILE MEMORY DEVICE
2434674	AF01338GB	United Kingdom	10/26/2004	12/16/2009	METHOD OF SETTING INFORMATION OF NON-VOLATILE MEMORY AND NON-VOLATILE MEMORY
2431027	AF01361GB	United Kingdom	06/30/2005	12/24/2008	METHOD OF IMPROVING ERASE VOLTAGE DISTRIBUTION FOR A FLASH MEMORY ARRAY HAVING DUMMY WORDLINES
1774530	AF01365GB	United Kingdom	04/29/2005	01/23/2008	FLASH MEMORY UNIT AND METHOD OF PROGRAMMING A FLASH MEMORY DEVICE
1717816	AF01372GB	United Kingdom	02/19/2004	12/24/2008	CURRENT-VOLTAGE CONVERTER CIRCUIT AND CONTROL METHOD THEREOF
1720172	AF01377GB	United Kingdom	02/20/2004	06/06/2012	A SEMICONDUCTOR MEMORY STORAGE DEVICE AND ITS REDUNDANCY CONTROL METHOD
1782460	AF01379GB	United Kingdom	04/29/2005	06/01/2011	METHOD FOR FABRICATING A FLOATING GATE MEMORY CELL
1717814	AF01380GB	United Kingdom	02/20/2004	09/19/2012	SEMICONDUCTOR STORAGE DEVICE AND SEMICONDUCTOR STORAGE DEVICE CONTROL METHOD
2432699	AF01383GB	United Kingdom	09/20/2005	05/14/2008	READ APPROACH FOR MULTI-LEVEL VIRTUAL GROUND MEMORY
2436055	AF01390GB	United Kingdom	12/20/2005	08/11/2010	MULTI-LEVEL ONO FLASH PROGRAM ALGORITHM FOR THRESHOLD WIDTH CONTROL
2432024	AF01402GB	United Kingdom	07/30/2004	05/07/2008	NEW CASCADE AND SENSE-AMPLIFIER
2431026	AF01403GB	United Kingdom	07/30/2004	05/07/2008	SEMICONDUCTOR DEVICE AND WRITING METHOD
2429315	AF01416GB	United Kingdom	05/12/2004	03/19/2008	SEMICONDUCTOR DEVICE AND ITS CONTROL METHOD
2443105	AF01416GB DIV	United Kingdom	12/14/2007	09/03/2008	SEMICONDUCTOR DEVICE AND ITS CONTROL METHOD
2427948	AF01417GB	United Kingdom	05/11/2004	11/14/2007	NONVOLATILE SEMICONDUCTOR MEMORY, SEMICONDUCTOR DEVICE AND CHARGE PUMP UNIT
2442831	AF01417GB DIV	United Kingdom	05/11/2004	06/18/2008	NONVOLATILE SEMICONDUCTOR MEMORY, SEMICONDUCTOR DEVICE AND CHARGE PUMP UNIT
2432698	AF01422GB	United Kingdom	05/11/2004	11/28/2007	DUMMY CELL ARRAY BETWEEN CORE AND REFERENCE ARRAYS
2430522	AF01423GB	United Kingdom	05/11/2004	02/13/2008	MULTI BIT PROGRAMMING FOR VIRTUAL GROUND ARRAY
2427949	AF01425GB	United Kingdom	05/11/2004	06/04/2008	IMPROVED APPARATUS FOR ADVANCED SECTOR PROTECTION (1)
2444178	AF01425GB DIV	United Kingdom	11/28/2007	08/13/2008	IMPROVED APPARATUS FOR ADVANCED SECTOR PROTECTION (1)
2428121	AF01427GB	United Kingdom	05/12/2004	12/24/2008	IMPROVED SLATCH AND THE LAYOUT
2451592	AF01427GB DIV	United Kingdom	11/26/2008	11/25/2009	IMPROVED SLATCH AND THE LAYOUT
2460213	AF01427GB DIV2	United Kingdom	11/26/2008	12/30/2009	IMPROVED SLATCH AND THE LAYOUT
1788578	AF01432GB	United Kingdom	08/31/2004	05/11/2011	THE SEMICONDUCTOR MEMORY STORAGE DEVICE WHICH CARRIED THE NEGATIVE VOLTAGE GENERATING CIRCUIT
1830366	AF01438GB	United Kingdom	12/24/2004	07/13/2011	BIAS APPLICATION METHOD OF STORAGE AND STORAGE
2434676	AF01439GB	United Kingdom	11/30/2004	11/18/2009	NON-VOLATILE SELECT GATE IN NAND FLASH MEMORY
2431025	AF01441GB	United Kingdom	07/29/2004	04/29/2009	A NON-VOLATILE MEMORY APPARATUS AND ITS CONTROL METHOD
2429582	AF01443GB	United Kingdom	05/11/2004	02/11/2009	CARRIER FOR SEMICONDUCTOR DEVICES TO BE STACKED AND FABRICATION METHOD OF THE DEVICE
2429842	AF01446GB	United Kingdom	05/20/2004	01/28/2009	SEMICONDUCTOR CHIP ASSEMBLY AND FABRICATION METHOD OF THE SAME
2427947	AF01453GB	United Kingdom	02/11/2005	07/10/2007	METHODS AND SYSTEMS FOR HIGH WRITE PERFORMANCE IN MULTI-BIT FLASH MEMORY DEVICES
2436234	AF01454GB	United Kingdom	11/30/2004	04/28/2010	NEW MEMORY CELL STRUCTURE IN WHICH HIGH-SPEED WRITING IS POSSIBLE
2434919	AF01455GB	United Kingdom	11/30/2004	05/05/2010	NON-VOLATILE SEMICONDUCTOR MEMORY DEVICE
2434901	AF01463GB	United Kingdom	09/30/2004	05/07/2008	SEMICONDUCTOR DEVICE AND DATA WRITING METHOD
2437447	AF01467GB	United Kingdom	01/12/2006	07/16/2008	MEMORY DEVICE HAVING TRAPEZOIDAL BITLINES AND METHOD OF FABRICATING SAME
2434917	AF01468GB	United Kingdom	10/29/2004	05/26/2010	SEMICONDUCTOR DEVICE AND METHOD OF FABRICATING THE SAME
2434675	AF01470GB	United Kingdom	11/30/2004	01/06/2010	SEMICONDUCTOR DEVICE AND SEMICONDUCTOR DEVICE CONTROL METHOD
2462959	AF01470GB DIV	United Kingdom	11/30/2004	01/06/2010	SEMICONDUCTOR DEVICE AND SEMICONDUCTOR DEVICE CONTROL METHOD
1829048	AF01485GB	United Kingdom	12/20/2005	06/15/2011	METHOD OF PROGRAMMING, READING AND ERASING MEMORY-DIODE IN A MEMORY-DIODE ARRAY
2434694	AF01491GB	United Kingdom	11/10/2005	03/31/2010	DIODE ARRAYS ARCHITECTURE FOR ADDRESSING NANOSCALE RESISTIVE MEMORY ARRAYS
0713428.1	AF01523GB	United Kingdom	12/20/2005		SENSE AMPLIFIER WIHT HIGH VOLTAGE SWING
2433815	AF01645GB	United Kingdom	10/26/2004	02/25/2009	NON-VOLATILE STORAGE DEVICE
2436271	AF01653GB	United Kingdom	01/24/2005	06/16/2010	SEMICONDUCTOR DEVICE AND METHOD OF FABRICATING THE SAME
2436272	AF01698GB	United Kingdom	01/27/2005	01/19/2011	A NON-VOLATILE MEMORY STORAGE DEVICE AND ITS CONTROL METHOD (PLACEMENT FORMATION (STRUCTURE) OF "AN INFORMATION MEMORY CELL OF OPERATION", AND ITS READ/WRITE APPARATUS, AND ITS CONTROL METHOD)

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2468051	AF01698GB DIV	United Kingdom	01/27/2005	02/09/2011	A NON-VOLATILE MEMORY STORAGE DEVICE AND ITS CONTROL METHOD (PLACEMENT FORMATION (STRUCTURE) OF "AN INFORMATION MEMORY CELL OF OPERATION", AND ITS READ/WRITE APPARATUS, AND ITS CONTROL METHOD)
2438128	AF01709GB	United Kingdom	03/22/2006	03/22/2006	VARIABLE BREAKDOWN CHARACTERISTIC DIODE
1898460	AF01792GB	United Kingdom	06/28/2005	01/04/2012	MIRRORBIT DEVICE HAVING STI AND DUAL POLY FILMS
1907868	AF01852GB	United Kingdom	07/07/2006	08/25/2010	INTEGRATED CIRCUIT TEST SOCKET
1103980	AF02178GB	United Kingdom	11/24/2000	01/16/2008	NONVOLATILE SEMICONDUCTOR MEMORY DEVICE
1223586	AF02182GB	United Kingdom	08/18/2000	08/03/2005	NONVOLATILE MEMORY CIRCUIT STORAGE MULTI-
1310994	AF02184GB	United Kingdom	07/17/2000	02/13/2013	NONVOLATILE MEMORY DEVICE AND
1310963	AF02186GB	United Kingdom	06/29/2000	12/27/2006	SEMICONDUCTOR MEMORY DEVICE
1286359	AF02200GB	United Kingdom	03/18/2002	01/17/2007	MEMORY CONTROLLER FOR MULTI LEVEL
1574867	AF02230GB	United Kingdom	12/17/2003	08/08/2007	SEMICONDUCTOR DEVICE AND TEST METHOD
1575056	AF02233GB	United Kingdom	12/17/2003	06/06/2007	NONVOLATILE MEMORY AND METHOD AND WRITE METHOD OF THE SAME
0792516	B011/2097GB	United Kingdom	11/08/1995	03/10/1999	NITRIDE ETCH PROCESS WITH CRITICAL DIMENSION (CD) GAIN
0799497	B047GB	United Kingdom	11/22/1995	01/19/2000	NOVEL PROCESSING TECHNIQUES FOR ACHIEVING PRODUCTION WORTHY LOW DIELECTRIC LOW INTERCONNECT RESISTANCE AND HIGH PERFORMANCE
0784867	B100GB	United Kingdom	07/31/1996	12/05/2007	THREE-DIMENSIONAL NON-VOLATILE MEMORY
0780023	B111GB	United Kingdom	06/21/1996	04/10/2002	PROCESS FOR SELF-ALIGNED SOURCE FOR HIGH DENSITY MEMORY
0856188	B128GB	United Kingdom	08/30/1996	10/27/1999	A FLASH EEPROM MEMORY WITH SEPARATE REFERENCE ARRAY
0835509	B132GB	United Kingdom	06/18/1996	08/11/1999	CHANNEL HOT CARRIER PAGE WRITE
0880783	B257GB	United Kingdom	08/15/1996	10/13/1999	LOW SUPPLY VOLTAGE NEGATIVE CHARGE PUMP
0861517	B258GB	United Kingdom	07/23/1996	10/13/1999	A FAST 3 STATE BOOSTER CIRCUIT
0858661	B260GB	United Kingdom	07/19/1996	12/15/1999	A NEW PROGRAM ALGORITHM FOR LOW VOLTAGE (3V) SINGLE POWER SUPPLY FLASH MEMORIES
0857346	B261GB	United Kingdom	06/21/1996	08/11/1999	A PROGRAM ERASE ALGORITHM THAT GREATLY REDUCES UNDER ERASE IN FLASH MEMORIES
0858660	B262GB	United Kingdom	07/19/1996	09/15/1999	TEMPERATURE COMPENSATED REFERENCE FOR OVER ERASE CORRECTION CIRCUITRY
97917648.4	B277GB	United Kingdom	03/25/1997	07/09/2008	A NOVEL PROCESS FOR RELIABLE ULTRATHIN OXYNITRIDE FORMATION
0907956	C072296GB	United Kingdom	03/28/1997	05/31/2000	USING FLOATING GATE DEVICES AS SELECT GATE DEVICES FOR NAND FLASH MEMORY AND ITS BIAS SCHEME
1019914	C141496GB	United Kingdom	04/10/1998	03/06/2002	A DUAL SOURCE SIDE POLYSILICON SELECT GATE STUCTURE AND PROGRAMMING METHOD UTILIZING SINGLE TUNNEL OXIDE FOR NAND ARRAY FLASH MEMORY
0944907	C196596GB	United Kingdom	11/13/1997	10/17/2001	BANK ARCHITECTURE FOR A NON-VOLATILE MEMORY ENABLING SIMULTANEOUS READING AND WRITING
1040486	C369297GB	United Kingdom	12/18/1998	02/27/2002	BIASING METHOD AND STRUCTURE FOR REDUCING BAND-TO-BAND AND/OR AVALANCHE CURRENTS DURING THE ERASE OF FLASH MEMORY DEVICE
1012878	C526397GB	United Kingdom	08/25/1998	07/28/2004	REDUCTION OF CHARGE LOSS IN NONVOLATILE MEMORY CELLS BY PHOSPHOROUS IMPLANTATION INTO PECVD NITRIDE/OXYNITRIDE FILMS
1042810	C627497GB	United Kingdom	12/18/1998	05/20/2010	METHODS AND ARRANGEMENTS FOR IMPROVED FORMATION OF CONTROL AND FLOATING GATES IN NON-VOLATILE MEMORY SEMICONDUCTOR DEVICES
1247299	C656497GB	United Kingdom	08/31/2000	04/11/2007	TUNGSTEN GATE MOS TRANSISTOR AND MEMORY CELL AND METHOD OF MAKING SAME
1204989	C695497GB	United Kingdom	06/29/2000	04/02/2014	THIN FLOATING GATE AND CONDUCTIVE SELECT GATE IN SITU
1116240	C715497GB	United Kingdom	09/21/1999	11/13/2002	WORDLINE DRIVER FOR FLASH ELECTRICALLY ERASABLE PROGRAMMABLE READ-ONLY MEMORY (EEPROM)
1203378	C725497GB	United Kingdom	08/01/2000	03/05/2003	CIRCUIT IMPLEMENTATION TO QUENCH BIT LINE LEAKAGE CURRENT IN PROGRAM AND AUTO PROGRAM DISTURB MODE IN FLASH EPROM USING RESISTOR SOURCE LOAD
1123547	D016GB	United Kingdom	10/05/1999	08/06/2003	BIT LINE BIASING METHOD TO ELIMINATE PROGRAM DISTURBANCE IN A NON-VOLATILE MEMORY DEVICE AND MEMORY DEVICE EMPLOYING THE SAME
1125302	D138GB	United Kingdom	10/05/1999	01/08/2003	SCHEME FOR PAGE ERASE AND ERASE VERIFY IN A NON-VOLATILE MEMORY ARRAY
1116238	D139GB	United Kingdom	08/16/1999	02/26/2003	BANK SELECTOR CIRCUIT FOR A SIMULTANEOUS OPERATION FLASH MEMORY DEVICE WITH A FLEXIBLE BANK PARTITION ARCHITETURE
1116239	D168GB	United Kingdom	08/16/1999	05/15/2002	SIMULTANEOUS OPERATION FLASH MEMORY DEVICE WITH A FLEXIBLE DEVICE WITH A FLEXIBLE BANK PARTITION ARCHITECTURE
1116236	D169GB	United Kingdom	08/16/1999	05/15/2002	METHOD OF MAKING FLEXIBLY PARTITIONED METAL LINE SEGMENTS FOR A SIMULTANEOUS OPERATION FLASH MEMORY DEVICE WITH A FLEXIBLE BANK PARTITION ARCHITECTURE
1125301	D170GB	United Kingdom	08/16/1999	10/16/2002	MEMORY ADDRESS DECODING CIRCUIT FOR A SIMULTANEOUS OPERATION FLASH MEMORY DEVICE WITH A FLEXIBLE BANK PARTITION ARCHITECTURE
1142014	D802GB	United Kingdom	10/27/1999	09/03/2008	METHOD FOR IMPROVING ELECTROSTATIC DISCHARGE (ESD) ROBUSTNESS
1175680	D832GB	United Kingdom	05/05/2000	02/26/2003	RAMPED OR STEPPED GATE CHANNEL ERASE FOR FLASH MEMORY APPLICATION
1214715	D833GB	United Kingdom	08/29/2000	10/15/2009	1 TRANSISTOR FOR EEPROM APPLICATION
1224696	D838GB	United Kingdom	10/24/2000	08/30/2006	SOLID-SOURCE DOPING FOR SOURCE/DRAIN OF FLASH MEMORY
1218941	D877GB	United Kingdom	07/17/2000	04/02/2014	NON-VOLATILE MEMORY HAVING HIGH GATE COUPLING CAPACITANCE

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1222690	D894GB	United Kingdom	09/29/2000	01/23/2008	METHOD OF MANUFACTURING A SEMICONDUCTOR DEVICE WITH REDUCED ARC LOSS IN PERIPHERAL CIRCUITRY REGION
1218938	DA01016GB	United Kingdom	07/14/2000	12/19/2007	METHOD FOR PROVIDING A DOPANT LEVEL FOR POLYSILICON FOR FLASH MEMORY DEVICES
0221924.4	DA01025GB	United Kingdom	04/03/2001		FLASH MEMORY ARRAY AND A METHOD AND SYSTEM OF FABRICATION THEREOF
1256116	E0251GB	United Kingdom	07/14/2000	09/03/2003	FLASH MEMORY ARCHITECTURE EMPLOYING THREE LAYER METAL INTERCONNECT
1290559	E0462GB	United Kingdom	05/21/2001	03/24/2004	DUAL PORTED CAMS FOR SIMULTANEOUS OPERATION FLASH MEMORY
1350253	F0257GB	United Kingdom	08/07/2001	09/22/2010	METHOD AND SYSTEM FOR EMBEDDED CHIP ERASE VERIFICATION
2400708	F0258GB	United Kingdom	12/17/2002	08/17/2005	METHOD AND APPARATUS FOR SOFT PROGRAM VERIFICATION IN A MEMORY DEVICE
1468424	F0262GB	United Kingdom	12/17/2002	06/08/2005	METHOD AND APPARATUS FOR SOFT PROGRAM VERIFICATION IN A MEMORY DEVICE
2400709	F0272GB	United Kingdom	12/17/2002	12/28/2005	CHARGE INJECTION
1366497	F0274GB	United Kingdom	11/01/2001	06/04/2014	HIGHER PROGRAM VT AND FASTER PROGRAMMING RATES BASED ON IMPROVED ERASE METHODS
1435114	F0283GB	United Kingdom	09/27/2002	12/08/2010	SALICIDED GATE FOR VIRTUAL GROUND ARRAYS
1386323	F1067GB	United Kingdom	02/19/2002	06/17/2009	THRESHOLD VOLTAGE COMPACTING FOR NON-VOLATILE SEMICONDUCTOR MEMORY DESIGNS
69412360	FMA13-0015FR	United Kingdom	05/26/1994	08/12/1998	POWER LINE CONNECTION CIRCUIT AND POWER LINES SWITCH IC FOR THE SAME
0915231.5	FMA13-00335GB	United Kingdom	03/14/2007		OUTPUT CIRCUIT
2345148	FMA13-00472FR	United Kingdom	11/11/2008	09/03/2014	METHOD OF DETECTING AN OPERATING CONDITION OF AN ELECTRIC STEPPER MOTOR
2381450	FMA13-00503FR	United Kingdom	02/03/2011	07/16/2014	SEMICONDUCTOR MEMORY
2308026	FMA13-0102GB	United Kingdom	08/30/1995	02/10/1999	ELECTRONIC APPARATUS HAVING A BATTERY PACK
2308025	FMA13-0102GB DIV	United Kingdom	08/30/1995	02/10/1999	CHARGING DEVICE
2308024	FMA13-0102GB DIV1	United Kingdom	08/30/1995	02/10/1999	CHARGING AND DISCHARGING DEVICE
2292845	FMA13-0102US CON	United Kingdom	08/30/1995	02/10/1999	ELECTRONIC APPARATUS
1435694	FMA13-0177FR-2	United Kingdom	12/23/2003	08/30/2006	SPREAD SPECTRUM CLOCK GENERATION CIRCUIT JITTER GENERATION CIRCUIT AND SEMICONDUCTOR DEVICE
1641124	FMA13-0177GB	United Kingdom	12/23/2003	06/03/2009	SPREAD SPECTRUM CLOCK GENERATION CIRCUIT
1672800	FMA13-0177GB1	United Kingdom	12/23/2003	08/19/2009	JITTERY GENERATION CIRCUIT
1553636	FMA13-0178FR	United Kingdom	03/03/2003	05/01/2013	MOS TYPE VARIABLE CAPACITANCE DEVICE
1857826	FMA13-0211EP DIV	United Kingdom	04/04/2005	08/07/2013	CAPACITANCE DIFFERENCE DETECTING CIRCUIT AND MEMS SENSOR
1906312	FMA13-0227FR	United Kingdom	01/26/2005	07/25/2012	DYNAMIC MEMORY CONFIGURATION
1748562	FMA13-0266FR	United Kingdom	11/01/2005	05/07/2008	CLOCK GENERATING CIRCUIT AND CLOCK GENERATING METHOD
2436406	FMA13-0299US	United Kingdom	03/23/2006	09/15/2009	DELAY CONTROL CIRCUIT
1399965	G0074GB	United Kingdom	12/14/2001	01/12/2011	SOURCE DRAIN IMPLANT DURING ONO FORMATION FOR IMPROVED ISOLATION OF SONOS DEVICES
1529293	G0391GB	United Kingdom	06/10/2003	11/23/2005	BUILT-IN-SELF-TEST (BIST) OF FLASH MEMORY CELLS AND IMPLEMENTATION OF BIST INTERFACE
1459374	G0689GB	United Kingdom	12/11/2002	03/17/2010	SHALLOW TRENCH ISOLATION APPROACH FOR IMPROVED STI CORNER ROUNDING
0509151.7	G0730-PCT	United Kingdom	09/24/2003		METHOD FOR REDUCING CONTACT DEFECTS IN SEMICONDUCTOR CELLS
1497833	G0861GB	United Kingdom	02/14/2003	12/08/2008	IMPROVED ERASE METHOD FOR SINGLE SIDED MIRROR OPERATION
1493159	G0862GB	United Kingdom	02/14/2003	10/01/2009	REFRESH SCHEME FOR DYNAMIC PAGE PROGRAMMING
1568045	G0865GB	United Kingdom	07/10/2003	12/09/2009	METHOD AND SYSTEM FOR DEFINING A REDUNDANCY WINDOW AROUND A PARTICULAR COLUMN IN A MEMORY ARRAY
1518247	G0866GB	United Kingdom	04/22/2003	02/08/2006	STEPPED PRE-ERASE VOLTAGE FOR MIRRORBIT ERASE
0417907.3	G1255GB	United Kingdom	02/05/2003		PARTIAL PAGE PROGRAMMING OF MULTI LEVEL FLASH
1559110	H0297GB	United Kingdom	07/10/2003	01/20/2010	CONTROL OF MEMORY ARRAYS UTILIZING ZENER DIODE-LIKE DEVICES
2432701	H0325GB	United Kingdom	09/19/2005	04/09/2008	CONTROL OF MEMORY DEVICES POSSESSING VARIABLE RESISTANCE CHARACTERISTICS
2419231	H0422GB	United Kingdom	05/11/2004	01/17/2007	METHOD AND SYSTEM FOR MANUFACTURING POLYMER MEMORY DEVICE IN VIA OPENING
2423174	H0423GB	United Kingdom	09/16/2004	04/02/2008	SELF ASSEMBLY OF CONDUCTING POLYMER FOR FORMATION OF POLYMER MEMORY CELL
1559109	H0434GB	United Kingdom	07/10/2003	02/24/2010	STACKED ORGANIC MEMORY DEVICES AND METHODS OF OPERATING AND FABRICATING
1629535	H0437GB	United Kingdom	05/11/2004	03/14/2007	PLANAR POLYMER MEMORY DEVICE
1556887	H0514GB	United Kingdom	06/10/2003	04/16/2008	NITROGEN OXIDATION TO REDUCE ENCROACHMENT
GB2419044	H0541GB	United Kingdom	07/15/2004	09/13/2006	LOW POWER CHARGE PUMP
1568043	H0570GB	United Kingdom	07/24/2003	12/05/2007	IMPROVED SYSTEM FOR PROGRAMMING A NON-VOLATILE MEMORY CELL
1568037	H0575GB	United Kingdom	07/24/2003	06/18/2008	IMPROVED PRE-CHARGE METHOD FOR READING A NON-VOLATILE MEMORY CELL ARRAY WITH STAGGERED LOCAL INTERCONNECT STRUCTURE
1673781	H0576GB	United Kingdom	09/16/2004	07/25/2007	RECESS CHANNEL FLASH ARCHITECTURE FOR REDUCED SHORT CHANNEL EFFECT
2422955	H0577GB	United Kingdom	09/16/2004	04/11/2007	RECESS CHANNEL FLASH ARCHITECTURE FOR REDUCED SHORT CHANNEL EFFECT
1590810	H0625GB	United Kingdom	01/08/2004	07/27/2011	IMPROVED METHOD FOR READING A NON-VOLATILE MEMORY CELL ADJACENT TO AN INACTIVE REGION OF A NON-VOLATILE MEMORY CELL ARRAY

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2425201	H0626GB	United Kingdom	09/16/2004	04/25/2007	MEMORY DEVICE AND METHOD USING POSITIVE GATE STRESS TO RECOVER OVERERASED CELL
1563507	H1203GB	United Kingdom	07/10/2003	04/15/2009	CASCADE AMPLIFIER CIRCUIT FOR PRODUCING A FAST, STABLE AND ACCURATE BITLINE VOLTAGE
1573746	H1205GB	United Kingdom	07/24/2003	12/24/2008	CIRCUIT FOR ACCURATE MEMORY READ OPERATIONS
1644974	H1368GB	United Kingdom	06/18/2004	06/15/2011	PECVD SILICON-RICH OXIDE LAYER FOR REDUCED UV CHARGING
2418535	H1414GB	United Kingdom	06/05/2004	11/07/2007	NON-VOLATILE MEMORY DEVICE
2424518	H1415GB	United Kingdom	10/26/2004	07/04/2007	FLASH MEMORY DEVICE
1602109	H1513GB	United Kingdom	03/01/2004	10/15/2008	CIRCUIT FOR FAST AND ACCURATE MEMORY READ OPERATIONS
2420226	H1862GB	United Kingdom	08/31/2004	01/17/2007	MEMORY CELL STRUCTURE HAVING NITRIDE LAYER WITH REDUCED CHARGE LOSS AND METHOD FOR FABRICATING SAME
1434232	H1979GB	United Kingdom	08/13/2001	09/19/2007	MEMORY CELL
0621481.1	H1984GB	United Kingdom	02/11/2005		METHODS AND APPARATUS FOR WORDLINE PROTECTION IN FLASH MEMORY DEVICES
2431291	H1990GB	United Kingdom	04/29/2005	12/27/2007	METHOD OF FORMING NARROWLY SPACED FLASH MEMORY CONTACT OPENINGS
1745511	H1993GB	United Kingdom	02/11/2005	03/31/2010	BITLINE IMPLANT UTILIZING DUAL POLY
1872399	H1998GB	United Kingdom	04/04/2006	06/18/2014	A NON-CRITICAL COMPLEMENTARY MASKING METHOD FOR POLY-1 DEFINITION IN FLASH MEMORY DEVICE FABRICATION
0801083.7	H2114GB	United Kingdom	06/23/2006		USE OF SUPERCRITICAL FLUID TO DRY WAFER AND CLEAN LANS IN IMMERSION LITHOGRAPHY
1459374	P116WO-GB	United Kingdom	12/11/2002	03/17/2010	A SHALLOW TRENCH ISOLATION APPROACH FOR IMPROVED STI CORNER ROUNDING
1168363	P-2505GB	United Kingdom	06/15/2001	08/09/2006	METHOD FOR PROGRAMMING OF A SEMICONDUCTOR MEMORY CELL
1527458	SE0002GB	United Kingdom	03/11/2003	01/16/2008	A SYSTEM AND METHOD OF ERASE VOLTAGE CONTROL DURING MULTIPLE SECTOR ERASE OF A FLASH MEMORY DEVICE
1502677.6	SP09-0058GB	United Kingdom	07/31/2013		POWER SAVINGS APPARATUS AND METHOD FOR MEMORY DEVICE USING DELAY LOCKED LOOP
1305446.5	SP11-0021GB	United Kingdom	03/26/2013		APPARATUS AND METHOD FOR A REDUCED PIN COUNT (RPC) MEMORY BUS INTERFACE INCLUDING A READ DATA STROBE SIGNAL
1415401.7	SP11-0027 GB	United Kingdom	02/08/2013		IMPROVING REDUNDANCY LOADING EFFICIENCY
2500082	SP11-0034CN	United Kingdom	01/02/2013	03/19/2014	CONTINUOUS READ BURST SUPPORT AT HIGH CLOCK RATES
1501977.1	SP12-0021GB	United Kingdom	07/29/2013		BITLINE VOLTAGE REGULATION IN NON-VOLATILE MEMORY
1502853.3	SP13-0036GB	United Kingdom	02/20/2015		MEMORY SUBSYSTEM WITH WRAPPED-TO-CONTINUOUS READ
0729187	TT0497FR	United Kingdom	01/30/1996	04/03/2002	A NON-VOLATILE MEMORY DEVICES HAVING A FLOATING GATE WITH ENHANCED CHANGE RETENTION
0929898	TT1997GB	United Kingdom	09/29/1997	11/28/2001	MEMORY BLOCK SELECT USING MULTIPLE WORD LINES TO ADDRESS A SINGLE MEMORY CELL ROW
6,180,538	9076/434-AMD	United States	10/25/1999	01/30/2001	PROCESS FOR FABRICATING AN ONO FLOATING-GATE ELECTRODE IN A TWO-BIT EEPROM DEVICE USING RAPID-THERMAL-CHEMICAL-VAPOR-DEPOSITION
4,716,552	A328/1235US	United States	03/29/1985	12/29/1987	METHOD AND APPARATUS FOR NON-DESTRUCTIVE ACCESS OF VOLATILE AND NONVOLATILE DATA IN A SHADOW MEMORY ARRAY
4,672,580	A332/1315US	United States	04/30/1985	06/09/1987	MEMORY CELL PROVIDING SIMULTANEOUS NON-DESTRUCTIVE ACCESS TO VOLATILE AND NON-VOLATILE DATA
4,672,241	A342/1324US	United States	05/29/1985	06/09/1987	HIGH VOLTAGE ISOLATION ON CMOS NETWORKS
4,789,883	A413/1408US	United States	12/17/1985	12/06/1988	INTEGRATED CIRCUIT STRUCTURE HAVING GATE ELECTRODE AND UNDERLYING OXIDE AND METHOD OF MAKING SAME
4,774,197	A496/1525US	United States	06/17/1986	09/27/1988	METHOD OF IMPROVING SILICON DIOXIDE
07/162,822	A628/1701US	United States	03/02/1988		EPROM ELEMENT EMPLOYING SELF-ALIGNING PROCESS
4,964,143	A628US CIP	United States	11/23/1988	10/16/1990	EPROM ELEMENT EMPLOYING SELF-ALIGNING PROCESS
5,091,326	A628US DIV	United States	09/12/1990	02/25/1992	EPROM ELEMENT EMPLOYING SELF-ALIGNING PROCESS
4,894,353	A629/1703US	United States	04/29/1988	01/16/1990	METHOD OF FABRICATING PASSIVATED TUNNEL OXIDE
4,958,321	A674/1751US	United States	09/22/1988	09/18/1990	ONE TRANSISTOR FLASH EPROM CELL
5,013,675	A719/1812US	United States	05/23/1989	05/07/1991	METHOD OF FORMING AND REMOVING POLYSILICON LIGHTLY DOPED DRAIN SPACERS
4,992,391	A738/1820US	United States	11/29/1989	02/12/1991	PROCESS FOR FABRICATING A CONTROL GATE FOR A FLOATING GATE FET
5,107,465	A747/1841US	United States	09/13/1989	04/21/1992	ASYNCHRONOUS/SYNCHRONOUS PIPELINE DUAL MODE MEMORY ACCESS CIRCUIT
4,914,055	A750/1853US	United States	08/24/1989	04/03/1990	SEMICONDUCTOR ANTIFUSE STRUCTURE AND METHOD
5,126,808	A754/1863US	United States	10/23/1989	06/30/1992	FLASH EEPROM ARRAY WITH PAGED ERASE ARCHITECTURE
5,077,691	A755/1866US	United States	10/23/1989	12/31/1991	FLASH EEPROM ARRAY WITH NEGATIVE GATE VOLTAGE ERASE OPERATION
5,008,799	A767/1836US	United States	04/05/1990	04/16/1991	BACK-TO-BACK CAPACITOR CHARGE PUMP
5,059,815	A768/1837US	United States	04/05/1990	10/22/1991	HIGH VOLTAGE CHARGE PUMP WITH SERIES CAPACITORS
5,113,373	A807/1897US	United States	08/06/1990	05/12/1992	POWER CONTROL CIRCUIT
5,191,556	A808/1864US	United States	03/13/1991	03/02/1993	METHOD OF PAGE-MODE PROGRAMMING FLASH EEPROM CELL ARRAYS
5,477,499	A846/1941US	United States	10/13/1993	12/19/1995	MEMORY ARCHITECTURE FOR A THREE VOLT FLASH EEPROM
5,579,274	A846US DIV	United States	06/06/1995	11/26/1996	MEMORY ARCHITECTURE FOR THREE VOLT FLASH EPROM
5,291,446	A887US	United States	10/22/1992	03/01/1994	VPP POWER SUPPLY
5,263,000	A888/1987US	United States	10/22/1992	11/16/1993	DRAIN POWER SUPPLY
5,282,170	A889/1988US	United States	10/22/1992	01/25/1994	NEGATIVE POWER SUPPLY
5,376,835	A890/1989US	United States	10/22/1992	12/27/1994	POWER-ON-RESET
5,335,198	A891/1990US	United States	05/06/1993	08/02/1994	FLASH EEPROM ARRAY WITH HIGH ENDURANCE
5,367,206	A900/1996US	United States	06/17/1993	11/22/1994	OUTPUT BUFFER CIRCUIT FOR LOW VOLTAGE EPROM
5,357,458	A901/1997US	United States	06/25/1993	10/18/1994	A SYSTEM FOR ALLOWING A CONTENT ADDRESSABLE MEMORY TO OPERATE WITH MULTIPLE POWER VOLTAGE LEVELS
5,406,517	A927/2024US	United States	08/23/1993	04/11/1995	DISTRIBUTED NEGATIVE GATE POWER SUPPLY

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PATENT OR APPL NO.	SPANSON REFERENCE NO.	COUNTRY	FILING DATE	ISSUE DATE	TITLE
5,365,484	A928/2025US	United States	08/23/1993	11/15/1994	INDEPENDENT ARRAY GROUNDS FOR FLASH EEPROM WITH PAGED ERASE ARCHITECTURE
5,349,558	A931/2028US	United States	08/26/1993	09/20/1994	SECTOR-BASED REDUNDANCY ARCHITECTURE
5,828,601	A938/2033US	United States	12/01/1993	10/27/1998	PROGRAMMED REFERENCE
5,511,026	A939/2034US	United States	12/01/1993	04/23/1996	BOOSTED AND REGULATED GATE POWER SUPPLY WITH REFERENCE TRACKING FOR MULTI-DENSITY AND LOW VOLTAGE SUPPLY MEMORIES
08/914,871	A956CIP-D2	United States	08/20/1997		METHOD PROTECTING A STACKED GATE EDGE IN A SEMICONDUCTOR DEVICE FROM SELF ALIGNED SOURCE (SAS) ETCH
08/500,422	A956CIP-DIV	United States	07/11/1995		METHOD PROTECTING A STACKED GATE EDGE IN A SEMICONDUCTOR DEVICE FROM SELF ALIGNED SOURCE (SAS) ETCH
5,470,773	A956US	United States	04/25/1994	11/28/1995	METHOD PROTECTING A STACKED GATE EDGE IN A SEMICONDUCTOR DEVICE FROM SELF AKIGNED SOURCE (SAS) ETCH
5,534,455	A956US CIP	United States	05/02/1995	07/09/1996	METHOD PROTECTING A STACKED GATE EDGE IN A SEMICONDUCTOR DEVICE FROM SELF ALIGNED SOURCE (SAS) ETCH
5,693,972	A956US CIP DIV	United States	12/18/1996	12/02/1997	METHOD PROTECTING A STACKED GATE EDGE IN A SEMICONDUCTOR DEVICE FROM SELF ALIGNED SOURCE (SAS) ETCH
5,517,443	A956US DIV	United States	06/01/1995	05/14/1996	METHOD & SYSTEM FOR PROTECTING A STACKED GATE EDGE IN A SEMICONDUCTOR DEVICE FROM SELF ALIGNED SOURCE (SAS) ETCH IN A SEMI-CONDUCTOR DEVICE
5,955,874	A957/2052US	United States	06/23/1994	09/21/1999	SUPPLY VOLTAGE-INDEPENDENT REFERENCE VOLTAGE CIRCUIT
08/267,726	A959/2050	United States	06/28/1994		FLASH EEPROM ARRAY WITH FLOATING SUBSTRATE ERASE OPERATION
5,561,620	A959US CON	United States	07/31/1995	10/01/1996	FLASH EEPROM ARRAY WITH FLOATING SUBSTRATE ERASE OPERATION
5,598,369	A959US DIV	United States	06/07/1995	01/28/1997	FLASH EEPROM ARRAY WITH FLOATING SUBSTRATE ERASE OPERATION
5,530,803	A960/2054US	United States	04/14/1994	06/25/1996	MEMORY DEVICES AND METHOD FOR CONTROLLING THE PROGRAMMING OF SUCH MEMORY DEVICE
5,576,991	A975/2066US	United States	07/01/1994	11/19/1996	MULTISTEPED TRESHOLD CONVERGENCE FOR A FLASH MEMORY ARRAY
5,541,875	A976/2067US	United States	07/01/1994	07/30/1996	HIGH ENERGY BURIED LAYER IMPLANT TO PROVIDE A LOW RESISTANCE P-WELL IN A FLASH EPROM ARRAY
5,457,336	A998/2089US	United States	10/13/1994	10/10/1995	NON-VOLATILE MEMORY STRUCTURE INCLUDING PROTECTION AND STRUCTURE FOR MAINTAINING THRESHOLD STABILITY
6,259,633	AF01001US	United States	10/19/1999	07/10/2001	SENSE AMPLIFIER ARCHITECTURE FOR SLIDING BANKS FOR A SIMULTANEOUS OPERATION FLASH MEMORY
6,359,808	AF01002US	United States	10/19/1999	03/19/2002	LOW VOLTAGE READ CASCODE FOR 2V/3V AND DIFFERENT BANK COMBINATIONS WITHOUT METAL OPTIONS FOR A SIMULTANEOUS OPERATION FLASH MEMORY DEVICE
6,327,181	AF01003US	United States	10/19/1999	12/04/2001	REFERENCE CELL BITLINE PATH ARCHITECTURE FOR A SIMULTANEOUS OPERATION FLASH MEMORY DEVICE
7,072,781	AF01005US	United States	07/06/2004	07/04/2006	ARCHITECTURE FOR GENERATING ADAPTIVE ARBITRARY WAVEFORMS
6,397,313	AF01006US	United States	08/04/2000	05/28/2002	REDUNDANT DUAL BANK ARCHITECTURE FOR A SIMULTANEOUS OPERATION FLASH MEMORY
6,550,028	AF01008US	United States	10/19/1999	04/15/2003	ARRAY VT MODE IMPLEMENTATION FOR A SIMULTANEOUS OPERATION FLASH MEMORY DEVICE
6,275,421	AF01009US	United States	09/14/2000	08/14/2001	CHIP ENABLE INPUT BUFFER
6,463,516	AF01010US	United States	09/18/2000	10/08/2002	VARIABLE SECTOR SIZE FOR A HIGH DENSITY FLASH MEMORY DEVICE
6,285,627	AF01011US	United States	09/18/2000	09/04/2001	ADDRESS TRANSITION DETECTOR (ATD) ARCHITECTURE FOR HIGH DENSITY FLASH MEMORY DEVICE
6,353,566	AF01012US	United States	09/18/2000	03/05/2002	METHOD FOR TRACKING SENSING SPEED BY AN EQUALIZATION PULSE FOR A HIGH DENSITY FLASH MEMORY DEVICE
6,297,993	AF01014US	United States	11/13/2000	10/02/2001	ACCELERATION VOLTAGE IMPLEMENTATION FOR HIGH DENSITY FLASH MEMORY DEVICE
6,327,194	AF01015US	United States	08/23/2000	12/04/2001	PRECISE REFERENCE WORDLINE LOADING COMPENSATION FOR A HIGH DENSITY FLASH MEMORY DEVICE
6,125,055	AF01016US	United States	10/19/1999	09/26/2000	SECTOR WRITE PROTECT CAMS FOR A SIMULTANEOUS OPERATION FLASH MEMORY
6,662,262	AF01016US CIP	United States	10/19/1999	12/09/2003	OTP SECTOR DOUBLE PROTECTION FOR A SIMULTANEOUS OPERATION FLASH MEMORY
6,571,307	AF01018US	United States	10/19/1999	05/27/2003	MULTIPLE PURPOSE BUS FOR A SIMULTANEOUS OPERATION FLASH MEMORY DEVICE
6,331,950	AF01019US	United States	10/19/1999	12/18/2001	WRITE PROTECT INPUT IMPLEMENTATION FOR A SIMULTANEOUS OPERATION FLASH MEMORY DEVICE
6,125,058	AF01020US	United States	10/19/1999	09/26/2000	SYSTEM FOR OPTIMIZING THE EQUALIZATION PULSE OF A READ SENSE SMPLIFIER FOR A SIMULTANEOUS OPERATION FLASH MEMORY DEVICE
6,201,753	AF01023US	United States	10/19/1999	03/13/2001	LATCH CAM DATA IN A FLASH MEMORY DEVICE
6,185,128	AF01024US	United States	10/19/1999	02/06/2001	REFERENCE CELL FOUR-WAY SWITCH FOR A SIMULTANEOUS OPERATION FLASH MEMORY DEVICE
6,111,787	AF01025US	United States	10/19/1999	08/29/2000	ADDRESS TRANSITION DETECT TIMING ARCHITECTURE FOR A SIMULTANEOUS OPERATION FLASH MEMORY DEVICE
6,208,556	AF01025US CON1	United States	04/12/2000	03/27/2001	ADDRESS TRANSITION DETECT TIMING ARCHITECTURE FOR A SIMULTANEOUS OPERATION FLASH MEMORY DEVICE

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6,285,585	AF01026US	United States	10/19/1999	09/04/2001	OUTPUT SWITCHING IMPLEMENTATION FOR A FLASH MEMORY DEVICE
6,118,698	AF01027US	United States	10/19/1999	09/12/2000	OUTPUT MULTIPLEXING IMPLEMENTATION FOR A SIMULTANEOUS OPERATION FLASH MEMORY DEVICE
6,266,284	AF01028US	United States	09/14/2000	07/24/2001	OUTPUT BUFFER FOR VCC2
6,310,805	AF01029US	United States	10/02/2000	10/30/2001	ARCHITECTURE FOR A DUAL-BANK PAGE MODE MEMORY WITH REDUNDANCY
6,298,007	AF01030US	United States	08/31/2000	10/02/2001	METHOD AND APPARATUS FOR ELIMINATING FALSE DATA IN A PAGE MODE MEMORY DEVICE
6,324,108	AF01032US	United States	09/22/2000	11/27/2001	APPLICATION OF EXTERNAL VOLTAGE DURING ARRAY VT TESTING
6,438,041	AF01033US	United States	09/22/2000	08/20/2002	NEGATIVE VOLTAGE REGULATION
6,400,638	AF01036US	United States	10/05/2000	06/04/2002	WORDLINE DRIVER FOR FLASH MEMORY READ MODE
6,622,230	AF01041US	United States	11/28/2000	09/16/2003	MULTI-SET BLOCK ERASE
6,201,737	AF01042US	United States	04/26/2000	03/13/2001	APPARATUS AND METHOD TO CHARACTERIZE THE THRESHOLD DISTRIBUTION IN AN NROM VIRTUAL GROUND ARRAY
6,373,742	AF01043US	United States	10/12/2000	04/16/2002	TWO SIDE DECODING OF A MEMORY ARRAY
6,813,735	AF01045US	United States	10/02/2000	11/02/2004	I/O BASED COLUMN REDUNDANCY FOR VIRTUAL GROUND WITH 2-BIT CELL FLASH MEMORY
6,750,103	AF01047US	United States	02/27/2002	06/15/2004	NROM CELL WITH N-LESS CHANNEL
6,583,479	AF01050US	United States	10/16/2000	06/24/2003	SIDEWALL NROM AND METHOD OF MANUFACTURE THEREOF FOR NON-VOLATILE MEMORY CELLS
6,218,227	AF01052US	United States	10/25/1999	04/17/2001	A METHOD TO GENERATE A MONOS TYPE FLASH CELL USING POLYCRYSTALLINE SILICON AS AN ONO TOP LAYER
6,265,268	AF01054US	United States	10/25/1999	07/24/2001	HIGH TEMPERATURE OXIDE DEPOSITION PROCESS FOR FABRICATING AN ONO FLOATING-GATE ELECTRODE IN A TWO BIT EEPROM DEVICE
6,248,628	AF01055US	United States	10/25/1999	06/19/2001	METHOD FOR FABRICATING AN ONO DIELECTRIC BY NITRIDATION FOR MNOS MEMORY CELLS
6,248,635	AF01056US	United States	10/25/1999	06/19/2001	PROCESS FOR FABRICATING A BIT-LINE IN MONOS DEVICE USING A DUAL LAYER HARD MASK
6,528,390	AF01057US	United States	03/02/2001	03/04/2003	PROCESS FOR FABRICATING A NON-VOLATILE MEMORY DEVICE
6,117,730	AF01058US	United States	10/25/1999	09/12/2000	INTEGRATED METHOD BY USING HTO FOR TOP OXIDE AND PERIPHERY GATE OXIDE
6,242,305	AF01059US	United States	10/25/1999	06/05/2001	PROCESS FOR FABRICATING A BIT-LINE USING BURIED DIFFUSION ISOLATION
60/227,118	AF01060US PROV	United States	08/22/2000		METHOD OF FORMING ZERO MARKS
6,573,140	AF01063US	United States	03/16/2001	06/03/2003	PROCESS FOR MAKING A DUAL BIT MEMORY DEVICE WITH ISOLATED POLYSILICON FLOATING GATES
60/228,711	AF01063US PROV	United States	08/29/2000		PROCESS FOR MAKING A DUAL BIT MEMORY DEVICE WITH ISOLATED POLYSILICON FLOATING GATES
6,479,411	AF01064US	United States	03/21/2000	11/12/2002	METHOD FOR FORMING HIGH QUALITY MULTIPLE THICKNESS OXIDE USING HIGH TEMPERATURE DESCUM
6,432,618	AF01065US	United States	03/23/2000	08/13/2002	METHOD FOR FORMING HIGH QUALITY MULTIPLE THICKNESS OXIDE LAYERS BY REDUCING DESCUM INDUCED DEFECTS
6,461,973	AF01066US	United States	03/23/2000	10/08/2002	METHOD FOR FORMING HIGH QUALITY MULTIPLE THICKNESS OXIDE LAYERS BY REDUCING DESCUM INDUCED DEFECTS
6,713,809	AF01067US	United States	03/16/2001	03/30/2004	DUAL BIT MEMORY DEVICE WITH ISOLATED POLYSILICON FLOATING GATES
60/228,712	AF01067US PROV	United States	08/29/2000		DUAL BIT MEMORY DEVICE WITH ISOLATED POLYSILICON FLOATING GATES
6,537,866	AF01068US	United States	10/18/2000	03/25/2003	METHOD OF FORMING NARROW INSULATING SPACERS FOR USE IN REDUCING MINIMUM COMPONENT SIZE
6,243,316	AF01071US	United States	02/09/2000	06/05/2001	IMPROVED VOLTAGE BOOST RESET CIRCUIT FOR A FLASH MEMORY
6,351,420	AF01072US	United States	06/16/2000	02/26/2002	VOLTAGE BOOST LEVEL CLAMPING CIRCUIT FOR A FLASH MEMORY
6,347,052	AF01073US	United States	10/17/2000	02/12/2002	WORD LINE DECODING ARCHITECTURE IN A FLASH MEMORY
6,463,003	AF01074US	United States	12/04/2000	10/08/2002	POWER SAVING SCHEME FOR BURST MODE IMPLEMENTATION DURING READING OF DATA FROM A MEMORY DEVICE
60/210,134	AF01074US PROV	United States	06/07/2000		POWER SAVING SCHEME FOR BURST MODE IMPLEMENTATION DURING READING OF DATA FROM A MEMORY DEVICE
6,240,040	AF01075US	United States	03/15/2000	05/29/2001	MULTIPLE BANK SIMULTANEOUS OPERATION FOR A FLASH MEMORY
6,621,761	AF01076US	United States	04/09/2001	09/16/2003	BURST ARCHITECTURE FOR A FLASH MEMORY
60/208,652	AF01076US PROV	United States	05/21/2000		BURST ARCHITECTURE FOR A FLASH MEMORY
09/693,809	AF01077US	United States	10/20/2000		COMMAND-DRIVEN TEST MODES
6,307,787	AF01078US	United States	11/28/2000	10/23/2001	BURST READ INCORPORATING OUTPUT BASED REDUNDANCY
09/741,320	AF01079US	United States	12/19/2000		INITIAL LATENCY CHECKING FOR BURST MODE READ IN A BURST MODE MEMORY DEVICE
6,507,527	AF01080US	United States	10/27/2000	01/14/2003	MEMORY LINE DISCHARGE BEFORE SENSING
6,229,735	AF01081US	United States	07/30/2001		BURST READ WORDLINE BOOSTING
6,400,633	AF01083US	United States	09/29/2000	06/04/2002	POWER-SAVING MODES FOR MEMORIES
6,611,473	AF01083US DIV	United States	02/01/2002	08/26/2003	POWER-SAVING MODES FOR MEMORIES
10/100,877	AF01083US DIV2	United States	03/18/2002		POWER-SAVING MODES FOR MEMORIES
6,212,108	AF01084US	United States	01/24/2000	04/03/2001	DISTRIBUTED VOLTAGE CHARGE CIRCUITS TO REDUCE SENSING TIME IN A MEMORY DEVICE
6,208,561	AF01085US	United States	06/13/2000	03/27/2001	METHOD TO REDUCE CAPACITIVE LOADING IN FLASH MEMORY X-DECODER FOR ACCURATE VOLTAGE CONTROL AT WORDLINES AND SELECT LINES
6,163,481	AF01086US	United States	10/29/1999	12/19/2000	WORD LINE TRACKING IN WHOLE CHIP
6,417,082	AF01087US	United States	08/30/2000	07/09/2002	SEMICONDUCTOR STRUCTURE
6,429,479	AF01088US	United States	03/09/2000	08/06/2002	NAND FLASH MEMORY WITH SPECIFIED GATE OXIDE THICKNESS

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PATENT OR APPL NO.	SPANSON REFERENCE NO.	COUNTRY	FILING DATE	ISSUE DATE	TITLE
6,385,093	AF01090US	United States	03/30/2001	05/07/2002	I/O PARTITIONING AND METHODOLOGY TO REDUCE BAND-TO-BAND TUNNELING CURRENT DURING ERASE
6,510,082	AF01091US	United States	10/23/2001	01/21/2003	DRAIN SIDE SENSING SCHEME FOR VIRTUAL GROUND FLASH EPROM ARRAY WITH ADJACENT BIT CHARGE AND HOLD
6,525,969	AF01092US	United States	08/10/2001	02/25/2003	DECODER APPARATUS AND METHODS FOR PRE-CHARGING BIT LINES
6,381,163	AF01093US	United States	06/04/2001	04/30/2002	METHODS AND APPARATUS FOR READING A CAM CELL USING BOOSTED AND REGULATED GATE VOLTAGE
6,535,424	AF01094US	United States	07/25/2001	03/18/2003	VOLTAGE BOOST CIRCUIT USING SUPPLY VOLTAGE DETECTION TO COMPENSATE FOR SUPPLY VOLTAGE VARIATIONS IN READ MODE VOLTAGES
6,493,266	AF01096US	United States	04/09/2001	12/10/2002	SOFT PROGRAM AND SOFT PROGRAM VERIFY OF THE CORE CELLS IN FLASH MEMORY ARRAY
6,370,061	AF01098US	United States	06/19/2001	04/09/2002	CEILING TEST MODE TO CHARACTERIZE THE THRESHOLD VOLTAGE DISTRIBUTION OF OVER PROGRAMMED MEMORY CELLS
6,445,030	AF01099US	United States	01/30/2001	09/03/2002	FLASH MEMORY ERASE SPEED BY FLUORINE IMPLANT OR FLUORINATION
6,707,078	AF01101US	United States	08/29/2002	03/16/2004	DUMMY WORDLINE FOR ERASE AND BITLINE LEAKAGE
6,465,306	AF01102US	United States	11/28/2000	10/15/2002	SIMULTANEOUS FORMATION OF CHARGE STORAGE AND BITLINE TO WORDLINE ISOLATION
6,555,436	AF01102US DIV1	United States	08/19/2002	04/29/2003	SIMULTANEOUS FORMATION OF CHARGE STORAGE AND BITLINE TO WORDLINE ISOLATION
6,468,865	AF01105US	United States	11/28/2000	10/22/2002	METHOD OF SIMULTANEOUS FORMATION OF BITLINE ISOLATION AND PERIPHERY OXIDE
6,730,564	AF01107US	United States	08/12/2002	05/04/2004	SALICIDED GATE FOR VIRTUAL GROUND ARRAYS
6,362,051	AF01110US	United States	08/25/2000	03/26/2002	METHOD OF FORMING ONO FLASH MEMORY DEVICES USING LOW ENERGY NITROGEN IMPLANTATION
6,395,654	AF01111US	United States	08/25/2000	05/28/2002	METHOD OF FORMING ONO FLASH MEMORY DEVICES USING RAPID THERMAL OXIDATION
6,541,816	AF01112US	United States	06/27/2001	04/01/2003	PLANAR STRUCTURE FOR NON-VOLATILE MEMORY DEVICES
60/372,361	AF01116	United States	04/12/2002		METHOD FOR MULTI-BIT FLASH READS USING DUAL DYNAMIC REFERENCES
6,799,256	AF01116US	United States	05/01/2002	09/28/2004	SYSTEM AND METHOD FOR MULTI-BIT FLASH READS USING DUAL DYNAMIC REFERENCES
7,103,706	AF01116US CON	United States	09/03/2004	09/05/2006	SYSTEM AND METHOD FOR MULTI-BIT FLASH READS USING DUAL DYNAMIC REFERENCES
10/223,775	AF01118US	United States	08/19/2002		HIGH-K SEMICONDUCTOR DEVICE HAVING A P-TYPE POLYSILICON GATE TO INCREASE BARRIER HEIGHT FOR ELECTRON TUNNELING
10/023,548	AF01120US	United States	12/17/2001		INTEGRATED ONO PROCESSING FOR SEMICONDUCTOR DEVICES USING IN-SITU STEAM GENERATION (ISSG) PROCESS
7,115,469	AF01120US DIV	United States	01/08/2004	10/03/2006	INTEGRATED ONO PROCESSING FOR SEMICONDUCTOR DEVICES USING IN-SITU STEAM GENERATION (ISSG) PROCESS
10/298,667	AF01122	United States	11/19/2002		A BURIED SILICIDE LOCAL INTERCONNECT AND METHOD FOR MAKING THE SAME
6,828,199	AF01124US	United States	12/20/2001	12/07/2004	MONOS DEVICE HAVING BURIED METAL SILICIDE BIT LINE
7,786,003	AF01125US	United States	05/25/2005	08/31/2010	A BURIED SILICIDE LOCAL INTERCONNECT WITH SIDEWALL SPACERS AND METHOD FOR MAKING THE SAME
8,049,334	AF01125US DIV	United States	07/26/2010	11/01/2011	BURIED SILICIDE LOCAL INTERCONNECT WITH SIDEWALL SPACERS AND METHOD FOR MAKING THE SAME
8,368,219	AF01125US DIV CON	United States	10/26/2011	02/05/2013	BURIED SILICIDE LOCAL INTERCONNECT WITH SIDEWALL SPACERS AND METHOD FOR MAKING THE SAME
10/165,836	AF01129	United States	06/06/2002		METHOD AND SYSTEM FOR PROVIDING SOURCE CONNECTIONS USING POLYSILICON FOR NONVOLATILE MEMORY CELLS
6,808,992	AF01131US	United States	05/15/2002	10/26/2004	METHOD AND SYSTEM FOR TAILORING CORE AND PERIPHERY CELLS IN A NONVOLATILE MEMORY
6,706,595	AF01132US	United States	03/14/2002	03/16/2004	HARD MASK PROCESS FOR MEMORY DEVICE WITHOUT BITLINE SHORTS
6,617,215	AF01133US	United States	03/27/2002	09/09/2003	MEMORY WORDLINE HARD MASK
6,479,348	AF01134US	United States	03/27/2002	11/12/2002	METHOD OF MAKING MEMORY WORDLINE HARD MASK EXTENSION
6,720,133	AF01135US	United States	04/19/2002	04/13/2004	MEMORY MANUFACTURING PROCESS USING DISPOSABLE ARC FOR WORDLINE FORMATION
10/109,527	AF01136	United States	03/27/2002		SEMICONDUCTOR MEMORY WITH DATA RETENTION LINER
7,297,592	AF01136US CIP	United States	08/01/2005	11/20/2007	SEMICONDUCTOR MEMORY WITH DATA RETENTION LINER
8,673,716	AF01137US	United States	04/08/2002	03/18/2014	MEMORY MANUFACTURING PROCESS WITH BITLINE ISOLATION
7,074,677	AF01138US	United States	11/29/2002	07/11/2006	MEMORY WITH IMPROVED CHARGE-TRAPPING DIELECTRIC LAYER
6,670,241	AF01139US	United States	04/22/2002	12/30/2003	SEMICONDUCTOR MEMORY WITH DEUTERATED MATERIALS
6,884,681	AF01139US DIV	United States	09/26/2003	04/26/2005	METHOD OF MANUFACTURING SEMICONDUCTOR MEMORY WITH DEUTERATED MATERIALS
6,803,265	AF01140US	United States	03/27/2002	10/12/2004	LINER FOR SEMICONDUCTOR MEMORIES AND MANUFACTURING METHODS THEREFOR
6,653,191	AF01141US	United States	05/16/2002	11/25/2003	MEMORY MANUFACTURING PROCESS USING BITLINE RAPID THERMAL ANNEAL
6,791,880	AF01154US	United States	05/06/2003	09/14/2004	NON-VOLATILE MEMORY READ CIRCUIT WITH END OF LIFE SIMULATION
6,566,736	AF01157US	United States	11/30/2001	05/20/2003	DIE SEAL SEMICONDUCTOR DEVICE MOISTURE PROTECTION
7,265,014	AF01158US	United States	03/12/2004	09/04/2007	AVOIDING FIELD OXIDE GOUGING IN SHALLOW TRENCH ISOLATION (STI) REGIONS
11/781,551	AF01158US DIV	United States	07/23/2007		DEVICE HAVING A PROTECTIVE CAP FORMED OVER AN ANTI-REFLECTIVE COATING LAYER AND OVER AN INSULATING MATERIAL
6,809,033	AF01159US	United States	11/07/2001	10/26/2004	INNOVATIVE METHOD OF HARD MASK REMOVAL

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6,642,148	AF01162US	United States	04/19/2002	11/04/2003	RELACS SHRINK METHOD APPLIED FOR SINGLE PRINT RESIST MASK FOR LLD OR BURIED BITLINE IMPLANTS USNG CHEMICALLY AMPLIFIED DUV TYPE PHOTORESIST
6,744,666	AF01164US	United States	09/12/2002	06/01/2004	METHOD AND SYSTEM TO MINIMIZE PAGE PROGRAMMING TIME FOR FLASH MEMORY DEVICES
7,142,454	AF01165US	United States	09/12/2002	11/28/2006	SYSTEM AND METHOD FOR Y-DECODEING IN A FLASH MEMORY DEVICE
6,859,393	AF01166US	United States	10/04/2002	02/22/2005	GROUND STRUCTURE FOR PAGE READ AND PAGE WRITE FOR FLASH MEMORY
6,728,160	AF01167US	United States	09/12/2002	04/27/2004	PATH GATE DRIVER CIRCUIT
6,944,057	AF01168US	United States	05/06/2003	09/13/2005	METHOD TO OBTAIN TEMPERATURE INDEPENDENT PROGRAM THRESHOLD VOLTAGE DISTRIBUTION USING TEMPERATURE DEPENDENT VOLTAGE REFERENCE
7,324,374	AF01169US	United States	06/20/2003	01/29/2008	MEMORY WITH A CORE-BASED VIRTUAL GROUND AND DYNAMIC REFERENCE SENSING SCHEME
7,606,068	AF01169US	United States	01/22/2008	10/20/2009	MEMORY WITH A CORE-BASED VIRTUAL GROUND AND DYNAMIC REFERENCE SENSING SCHEME
6,754,105	AF01170US	United States	05/06/2003	06/22/2004	TRENCH SIDE WALL CHARGE TRAPPING DIELECTRIC FLASH MEMORY DEVICE
6,974,995	AF01171US	United States	12/27/2001	12/13/2005	METHOD AND SYSTEM FOR FORMING DUAL GATE STRUCTURES IN A NONVOLATILE MEMORY USING A PROTECTIVE LAYER
10/032,755	AF01172	United States	12/27/2001		METHOD AND SYSTEM FOR PERFORMING A REVERSE SELF-ALIGNED SOURCE ETCH USING NITRIDE SPACERS
6,936,515	AF01174US	United States	03/12/2003	08/30/2005	MEMORY DEVICE HAVING REVERSE LDD METHOD
7,163,860	AF01181US	United States	05/06/2003	01/16/2007	METHOD OF FORMATION OF GATE STACK SPACER AND CHARGE STORAGE MATERIALS HAVING REDUCED HYDROGEN CONTENT IN CHARGE TRAPPING DIELECTRIC FLASH MEMORY DEVICE
6,912,163	AF01182US CIP	United States	09/09/2003	06/28/2005	MEMORY DEVICE HAVING HIGH WORK FUNCTION GATE AND METHOD OF ERASING SAME
6,794,764	AF01186US	United States	03/05/2003	09/21/2004	CHARGE-TRAPPING MEMORY ARRAYS RESISTANT TO DAMAGE FROM CONTACT HOLE FORMATION
6,667,212	AF01187US	United States	03/21/2003	12/23/2003	ALIGNMENT SYSTEM FOR PLANAR CHARGE TRAPPING DIELECTRIC MEMORY CELL LITHOGRAPHY
7,033,957	AF01188US	United States	02/05/2003	04/25/2006	ONO FABRICATION PROCESS FOR INCREASING OXYGEN CONTENT AT BOTTOM OXIDE-SUBSTRATE INTERFACE IN FLASH MEMORY DEVICES
6,803,275	AF01189US	United States	12/03/2002	10/12/2004	ONO FABRICATION PROCESS FOR REDUCING OXYGEN VACANCY CONTENT IN BOTTOM OXIDE LAYER IN FLASH MEMORY DEVICES
6,969,886	AF01189US DIV	United States	07/12/2004	11/29/2005	ONO FABRICATION PROCESS FOR REDUCING OXYGEN VACANCY CONTENT IN BOTTOM OXIDE LAYER IN FLASH MEMORY DEVICES
6,958,511	AF01191US	United States	10/06/2003	10/25/2005	FLASH MEMORY DEVICE AND METHOD OF FABRICATION THEREOF
6,949,481	AF01194US	United States	12/09/2003	09/27/2005	IMPROVED PROCESS FOR FABRICATION OF SPACER LAYER WITH REDUCED HYDROGEN CONTENT IN SEMICONDUCTOR DEVICE
6,955,965	AF01196US	United States	12/09/2003	10/18/2005	PROCESS FOR FABRICATION OF NITRIDE LAYER WITH REDUCED HYDROGEN CONTENT IN ONO STRUCTURE IN SEMICONDUCTOR DEVICE
10/430,601	AF01197US	United States	05/06/2003		PROCESS FOR REDUCING HYDROGEN CONTENT IN ETCH STOP LAYER INFLASH MEMORY DEVICES
11/532,917	AF01197US DIV	United States	09/19/2006		PROCESS FOR REDUCING HYDROGEN CONTENT IN ETCH STOP LAYER INFLASH MEMORY DEVICES
6,949,433	AF01200US	United States	02/07/2003	09/27/2005	METHOD OF FORMATION OF SEMICONDUCTOR RESISTANT TO HOT CARRIER INJECTION STRESS
6,740,605	AF01201US	United States	05/05/2003	05/25/2004	PROCESS FOR REDUCING HYDROGEN CONTAMINATION DIELECTRIC MATERIALS IN MEMORY DEVICES
6,819,591	AF01202US	United States	01/20/2004	11/16/2004	METHOD FOR ERASING A MEMORY SECTOR IN VIRTUAL GROUND ARCHITECTURE WITH REDUCED LEAKAGE CURRENT
6,765,254	AF01203US	United States	06/12/2003	07/20/2004	STRUCTURE AND METHOD FOR PREVENTING UV RADIATION DAMAGE AND INCREASING DATA RETENTION IN MEMORY CELLS
6,833,581	AF01204US	United States	06/12/2003	12/21/2004	STRUCTURE AND METHOD FOR PREVENTING PROCESS-INDUCED UV RADIATION DAMAGE IN A MEMORY CELL
6,894,342	AF01207US	United States	06/12/2003	05/17/2005	STRUCTURE AND METHOD FOR PREVENTING UV RADIATION DAMAGE IN A MEMORY CELL AND IMPROVING CONTACT CD CONTROL
6,773,990	AF01209US	United States	05/03/2003	08/10/2004	METHOD FOR REDUCING SHORT CHANNEL EFFECTS IN MEMORY CELLS AND RELATED STRUCTURE
6,963,106	AF01209US DIV	United States	05/04/2004	11/08/2005	METHOD FOR REDUCING SHORT CHANNEL EFFECTS IN MEMORY CELLS AND RELATED STRUCTURE
7,019,366	AF01210US	United States	01/14/2004	03/28/2006	ELECTROSTATIC DISCHARGE PERFORMANCE OF A SILICON STRUCTURE AND EFFICIENT USE OF AREA WITH ELECTROSTATIC DISCHARGE PROTECTIVE DEVICE UNDER THE PAD APPROACH AND ADJUSTMENT OF VIA CONFIGURATION THERETO TO CONTROL DRAIN JUNCTION RESISTANCE
10/823,971	AF01211	United States	04/13/2004		SEMICONDUCTOR DEVICE HAVING A PAD METAL LAYER AND A LOWER METAL LAYER THAT ARE ELECTRICALLY COUPLED WITH VIAS FORMED BELOW A PERIMETER AREA OF THE PAD METAL LAYER
7,423,312	AF01212US	United States	07/20/2004	09/09/2008	APPARATUS AND METHOD FOR A MEMORY ARRAY WITH SHALLOW TRENCH ISOLATION REGIONS BETWEEN BIT LINES FOR INCREASED PROCESS MARGINS
8,507,971	AF01212US DIV	United States	08/06/2008	08/13/2013	APPARATUS AND METHOD FOR A MEMORY ARRAY WITH SHALLOW TRENCH ISOLATION REGIONS BETWEEN BIT LINES FOR INCREASED PROCESS MARGINS
7,092,297	AF01213US	United States	07/26/2004	08/15/2006	METHOD FOR PULSE ERASE IN DUAL BIT MEMORY DEVICES

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PATENT OR APPL NO.	SPANSON REFERENCE NO.	COUNTRY	FILING DATE	ISSUE DATE	TITLE
10/758,148	AF01214US	United States	01/14/2004		EFFICIENT USE OF WAFER AREA WITH DEVICE UNDER THE PAD APPROACH
7,632,749	AF01215US	United States	04/13/2004	12/15/2009	SEMICONDUCTOR DEVICE HAVING A PAD METAL LAYER AND A LOWER METAL LAYER THAT ARE ELECTRICALLY COUPLED, WHEREAS APERTURES ARE FORMED IN THE LOWER METAL LAYER BELOW A CENTER AREA OF THE PAD METAL LAYER
7,026,211	AF01216US	United States	03/08/2004	04/11/2006	SEMICONDUCTOR COMPONENT AND METHOD OF MANUFACTURE
7,301,193	AF01220US	United States	01/22/2004	11/27/2007	STRUCTURE AND METHOD FOR LOW VSS RESISTANCE AND REDUCED DIBL IN A FLOATING GATE MEMORY CELL
7,067,377	AF01221US	United States	03/30/2004	06/27/2006	RECESSED CHANNEL WITH SEPARATED ONO MEMORY DEVICE
7,394,125	AF01221US DIV	United States	02/24/2006	07/01/2008	RECESSED CHANNEL WITH SEPARATED ONO MEMORY DEVICE
7,098,546	AF01222US	United States	06/16/2004	08/29/2006	ALIGNMENT MARKS WITH SALICIDED SPACERS BETWEEN BITLINES FOR ALIGNMENT SIGNAL IMPROVEMENT
10/877,701	AF01223	United States	06/26/2004		ALIGNMENT MARK ON OXIDE
7,157,335	AF01224US	United States	08/13/2004	01/02/2007	USING THIN UNDOPED TEOS WITH BPTEOS ILD OR BPTEOS ILD ALONE TO IMPROVE CHARGE LOSS AND CONTACT RESISTANCE IN MULTI BIT MEMORY DEVICES
11/546,688	AF01224US DIV	United States	10/12/2006		USING THIN UNDOPED TEOS WITH BPTEOS ILD OR BPTEOS ILD ALONE TO IMPROVE CHARGE LOSS AND CONTACT RESISTANCE IN MULTI-BIT MEMORY DEVICES
7,283,398	AF01225US	United States	05/04/2004	10/16/2007	METHOD FOR MINIMIZING FALSE DETECTION OF STATES IN FLASH MEMORY DEVICES
8,896,048	AF01226US	United States	06/04/2004	11/25/2014	APPARATUS AND METHOD FOR SOURCE SIDE IMPLANTATION AFTER SPACER FORMATION TO REDUCE SHORT CHANNEL EFFECTS IN METAL OXIDE SEMICONDUCTOR FIELD EFFECT TRANSISTORS
8,237,210	AF01227US	United States	02/08/2006	08/07/2012	ARRAY TYPE CAM CELL FOR SIMPLIFYING PROCESSES
7,226,839	AF01228US	United States	06/04/2004	06/05/2007	METHOD AND SYSTEM FOR IMPROVING THE TOPOGRAPHY OF A MEMORY ARRAY
7,151,027	AF01229US	United States	06/01/2004	12/19/2006	METHOD AND DEVICE FOR REDUCING INTERFACE AREA OF A MEMORY DEVICE
10/861,574	AF01230	United States	06/04/2004		DIELECTRIC STRUCTURE HAVING A HIGH-K DIELECTRIC LAYER FOR A SEMICONDUCTOR DEVICE
7,242,102	AF01232US	United States	07/08/2004	07/10/2007	BOND PAD STRUCTURE FOR COPPER METALLIZATION HAVING INCREASED RELIABILITY AND METHOD FOR FABRICATING SAME
10/953,228	AF01233	United States	09/29/2004		A METHOD OF IMPROVING LINE-TO-LINE BREAKDOWN VOLTAGES IN Cu INTERCONNECTS
6,974,989	AF01234US	United States	05/06/2004	12/13/2005	STRUCTURE AND METHOD FOR PROTECTING MEMORY CELLS FROM UV RADIATION DAMAGE AND UV RADIATION-INDUCED CHARGING DURING BACKEND PROCESSING
10/938,790	AF01235	United States	09/10/2004		MEMORY ARRAY HAVING REDUCED BIT LINE TO BIT LINE AND WORD LINE TO WORD LINE LEAKAGE
10/949,083	AF01236	United States	09/24/2004		INTERCONNECT STRUCTURE FOR COPPER METALLIZATION HAVING A TOP ALUMINUM INTERCONNECT LAYER
7,158,417	AF01240US	United States	03/25/2005	01/02/2007	SEMICONDUCTOR DEVICE AND METHOD FOR WRITING DATE INTO THE SEMICONDUCTOR DEVICE
11/103,960	AF01241US	United States	04/12/2005		SECTOR PROTECTION CIRCUIT FOR A NON-VOLATILE SEMICONDUCTOR MEMORY, SECTOR PROTECTION METHOD AND A NON-VOLATILE SEMICONDUCTOR MEMORY
7,352,620	AF01248US	United States	04/20/2005	04/01/2008	NON-VOLATILE SEMICONDUCTOR DEVICE AND METHOD FOR AUTOMATICALLY RECOVERING ERASE FAILURE IN THE DEVICE
7,079,423	AF01272US	United States	07/20/2004	07/18/2006	METHOD FOR PROGRAMMING DUAL BIT MEMORY DEVICES TO REDUCE COMPLEMENTARY BIT DISTURBANCE
7,281,180	AF01273US	United States	07/01/2005	10/09/2007	MEMORY SYSTEM AND TEST METHOD THEREOF
7,286,219	AF01274US	United States	08/30/2005	10/23/2007	EXPOSURE SYSTEM, SEMICONDUCTOR DEVICE, AND METHOD FOR FABRICATING THE SEMICONDUCTOR DEVICE
8,274,107	AF01274US DIV	United States	08/22/2007	09/25/2012	EXPOSURE SYSTEM, SEMICONDUCTOR DEVICE, AND METHOD FOR FABRICATING THE SEMICONDUCTOR DEVICE
7,479,427	AF01276US	United States	09/27/2005	01/20/2009	SEMICONDUCTOR DEVICE AND METHOD OF FABRICATION
8,952,536	AF01276US DIV	United States	08/27/2008	02/10/2015	SEMICONDUCTOR DEVICE AND METHOD OF FABRICATION
7,145,824	AF01278US	United States	03/22/2005	12/05/2006	TEMPERATURE COMPENSATION OF THIN FILM DIODE VOLTAGE THRESHOLD IN MEMORY SENSING CIRCUIT
10/935,301	AF01279	United States	09/07/2004		VERTICAL JFET AS USED FOR SELECTIVE COMPONENT IN MEMORY ARRAY
7,474,579	AF01281US	United States	12/21/2006	01/06/2009	USE OF PERIODIC REFRESH IN MEDIUM RETENTION MEMORY ARRAYS
11/191,126	AF01285	United States	07/27/2005		PROGRAM/ERASE WAVESHAPING CONTROL TO INCREASE DATA RETENTION OF A MEMORY CELL
7,579,631	AF01286US	United States	03/22/2005	08/25/2009	VARIABLE BREAKDOWN CHARACTERISTIC DIODE
6,441,418	AF01287	United States	11/01/1999	08/27/2002	SPACER NARROWED, DUAL WIDTH CONTACT FOR CHARGE GAIN REDUCTION
7,564,720	AF01287US	United States	07/18/2007	07/21/2009	NONVOLATILE STORAGE AND ERASE CONTROL
7,902,086	AF01288US	United States	12/08/2006	03/08/2011	PREVENTION OF OXIDATION OF CARRIER IONS TO IMPROVE MEMORY RETENTION PROPERTIES OF POLYMER MEMORY CELL
7,129,133	AF01291US	United States	09/13/2004	10/31/2006	METHOD AND STRUCTURE OF MEMORY ELEMENT PLUG WITH CONDUCTIVE TA REMOVED FROM SIDEWALL AT REGION OF MEMORY ELEMENT FILMS
7,361,586	AF01293US	United States	07/01/2005	04/22/2008	PREAMORPHIZATION TO MINIMIZE VOID FORMATION
7,232,765	AF01296	United States	11/12/2004	06/19/2007	UTILIZATION OF A TA-CONTAINING CAP OVER COPPER TO FACILITATE CONCURRENT FORMATION OF COPPER VIAS AND MEMORY ELEMENT STRUCTURES
7,391,064	AF01300US	United States	12/01/2004	06/24/2008	MEMORY DEVICE WITH A SELECTION ELEMENT AND A CONTROL LINE IN A SUBSTANTIALLY SIMILAR LAYER

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7,696,017	AF01300US DIV	United States	06/18/2008	04/13/2010	MEMORY DEVICE WITH A SELECTION ELEMENT AND A CONTROL LINE IN A SUBSTANTIALLY SIMILAR LAYER
7,288,487	AF01301US	United States	12/01/2004	10/30/2007	METAL/OXIDE ETCH AFTER POLISH TO PREVENT BRIDGING BETWEEN ADJACENT FEATURES OF A SEMICONDUCTOR STRUCTURE
11/135,957	AF01303US	United States	05/24/2005		A LATERAL ORGANIC MEMORY CELL AND METHOD TO PRODUCE A LATERAL MEMORY CELL STRUCTURE
7,157,732	AF01306US	United States	07/01/2004	01/02/2007	SWITCHABLE MEMORY DIODE- A NEW MEMORY DEVICE
7,550,761	AF01306US DIV	United States	12/26/2006	06/23/2009	SWITCHABLE MEMORY DIODE- A NEW MEMORY DEVICE
7,981,773	AF01306US DIV2	United States	05/22/2009	07/19/2011	SWITCHABLE MEMORY DIODE- A NEW MEMORY DEVICE
7,105,374	AF01308US	United States	01/12/2005	09/12/2006	MEMORY CELL CONTAINING COPOLYMER CONTAINING DAIRYLACETYLENE PORTION
7,777,218	AF01308US DIV	United States	08/04/2006	08/17/2010	MEMORY CELL CONTAINING COPOLYMER CONTAINING DAIRYLACETYLENE PORTION
10/882,949	AF01309US	United States	07/01/2004		POLYMER MEMORY DEVICE AND FABRICATION PROCESS
7,582,893	AF01310US	United States	09/15/2005	09/01/2009	SEMICONDUCTOR MEMORY DEVICE COMPRISING ONE OR MORE INJECTING BILAYER ELECTRODES
60/609,513	AF01311	United States	09/13/2004		METHOD OF FORMING COPPER SULFIDE LAYER OVER SUBSTRATE
11/224,196	AF01311US	United States	09/12/2005		METHOD OF FORMING COPPER SULFIDE LAYER OVER SUBSTRATE
7,344,913	AF01312US	United States	04/06/2005	03/18/2008	SPIN ON MEMORY CELL ACTIVE LAYER DOPED WITH METAL IONS
7,122,853	AF01313US	United States	08/17/2004	10/17/2006	METHOD TO IMPROVE YIELD AND SIMPLIFY OPERATION OF POLYMER MEMORY CELLS
7,232,750	AF01315US	United States	01/12/2005	06/19/2007	METHODS INVOLVING SPIN-ON POLYMERS THAT REVERSIBLY BIND CHARGE CARRIERS
7,776,682	AF01316US	United States	04/20/2005	08/17/2010	ORDERED POROSITY TO DIRECT MEMORY ELEMENT FORMATION
7,067,349	AF01318US	United States	10/19/2004	06/27/2006	ION PATH POLYMERS FOR ION-MOTION MEMORY
7,289,353	AF01320US	United States	08/17/2004	10/30/2007	SYSTEMS AND METHODS FOR ADJUSTING PROGRAMMING THRESHOLDS OF POLYMER MEMORY CELLS
10/978,622	AF01321TW	United States	11/01/2004		CONTROLLED VOID MEMORY DEVICE
7,307,338	AF01322US	United States	07/26/2004	12/11/2007	THREE DIMENSIONAL POLYMER MEMORY CELL SYSTEMS
7,309,893	AF01327US	United States	06/14/2005	12/18/2007	SEMICONDUCTOR DEVICE AND METHOD OF FABRICATING THE SAME
7,387,936	AF01327US DIV	United States	10/23/2007	06/17/2008	SEMICONDUCTOR DEVICE AND METHOD OF FABRICATING THE SAME
7,141,844	AF01328US	United States	12/01/2004	11/28/2006	SELECTIVE POLYMER GROWTH FOR MEMORY CELL FABRICATION
7,266,019	AF01329US CON	United States	08/30/2005	09/04/2007	NON-VOLATILE MEMORY DEVICE AND ERASING METHOD THEREFOR
6,984,563	AF01333US	United States	07/01/2004	01/10/2006	FLOATING GATE SEMICONDUCTOR COMPONENT AND METHOD OF MANUFACTURE
7,120,050	AF01338US CON	United States	10/26/2005	10/10/2006	METHOD AND APPARATUS FOR SETTING OPERATIONAL INFORMATION OF A NON-VOLATILE MEMORY
6,977,195	AF01340US	United States	08/16/2004	12/20/2005	TEST STRUCTURE FOR CHARACTERIZING JUNCTION LEAKAGE CURRENT
10/909,904	AF01341	United States	08/02/2004		TEST STRUCTURE FOR CHARACTERIZING DIELECTRIC BREAKDOWN
11/214,633	AF01342US	United States	08/30/2004		SEMICONDUCTOR DEVICE AND METHOD FOR BOOSTING WORD LINE
7,525,853	AF01342US CIP	United States	08/12/2005	04/28/2009	SEMICONDUCTOR DEVICE AND METHOD FOR BOOSTING WORD LINE
7,791,961	AF01342US CON	United States	03/18/2009	09/07/2010	SEMICONDUCTOR DEVICE AND METHOD FOR BOOSTING WORD LINE
7,450,460	AF01343US	United States	06/25/2004	11/11/2008	VOLTAGE CONTROL CIRCUIT AND SEMICONDUCTOR DEVICE
7,307,893	AF01346US	United States	09/16/2005	12/11/2007	SEMICONDUCTOR DEVICE AND METHOD FOR CONTROLLING THE SAME
7,558,904	AF01349US	United States	07/22/2005	07/07/2009	FILE MANAGEMENT FOR RECOVERING FROM SUDDEN POWER OFF
11/261,174	AF01351US CON	United States	10/29/2004		MULTI-CHIP PACKAGE AND METHOD OF FABRICATING THE SAME
7,400,013	AF01353US	United States	12/03/2004	07/15/2008	HIGH-VOLTAGE TRANSISTOR HAVING A U-SHAPED GATE AND METHOD FOR FORMING SAME
7,068,204	AF01355US	United States	09/28/2004	06/27/2006	SYSTEM THAT FACILITATES READING MULTI-LEVEL DATA IN NON- VOLATILE MEMORY
11/201,042	AF01360	United States	08/10/2005		METHOD OF FORMING GATE ELECTRODE STRUCTURES
6,987,696	AF01361US	United States	07/06/2004	01/17/2006	ERASE DISTRIBUTION IMPROVEMENT WITH ENHANCED DUMMY WORDLINES IN FLASH MEMORY
7,042,766	AF01362US	United States	07/22/2004	05/09/2006	METHOD OF PROGRAMMING A FLASH MEMORY DEVICE USING MULTILEVEL CHARGE STORAGE
7,042,767	AF01365US	United States	08/02/2004	05/09/2006	FLASH MEMORY UNIT AND METHOD OF PROGRAMMING A FLASH MEMORY DEVICE
11/228,840	AF01370US	United States	09/16/2005		SEMICONDUCTOR DEVICE AND DATA READING METHOD
7,206,232	AF01371US	United States	06/23/2005	04/17/2007	SEMICONDUCTOR DEVICE AND SOURCE VOLTAGE CONTROL METHOD
7,046,043	AF01372US	United States	02/18/2005	05/16/2006	CURRENT-VOLTAGE CONVERTER CIRCUIT AND CONTROL METHOD THEREOF
7,061,816	AF01376US	United States	02/18/2005	06/13/2006	SEMICONDUCTOR MEMORY STORAGE DEVICE AND ITS REDUNDANT METHOD
7,068,555	AF01377US	United States	02/18/2005	06/22/2006	SEMICONDUCTOR MEMORY STORAGE DEVICE AND A REDUNDANCY CONTROL METHOD THEREFOR
7,170,130	AF01379US	United States	08/11/2004	01/30/2007	MEMORY CELL WITH REDUCED DIBL AND VSS RESISTANCE
7,154,807	AF01380US	United States	02/22/2005	12/26/2006	SEMICONDUCTOR MEMORY STORAGE DEVICE AND ITS CONTROL METHOD
7,415,646	AF01381US	United States	09/22/2004	08/19/2008	PAGE EXE ERASE ALGORITHM FOR FLASH MEMORY

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7,009,887	AF01382US	United States	06/03/2004	03/07/2006	METHOD OF DETERMINING VOLTAGE COMPENSATION FOR FLASH MEMORY DEVICES
7,440,333	AF01382US DIV	United States	01/27/2006	10/21/2008	METHOD OF DETERMINING VOLTAGE COMPENSATION FOR FLASH MEMORY DEVICES
7,038,948	AF01383US	United States	09/22/2004	05/02/2006	READ APPROACH FOR MULTI-LEVEL VIRTUAL GROUND MEMORY
7,113,431	AF01385US	United States	03/29/2005	09/26/2006	QUAD BIT USING HOT HOLE ERASE FOR CBD CONTROL
7,251,158	AF01386US	United States	06/10/2004	07/31/2007	ERASE ALGORITHM FOR MULTI-LEVEL BIT FLASH MEMORY
7,672,803	AF01387US	United States	12/07/2004	03/02/2010	INPUT OF TEST CONDITIONS AND OUTPUT GENERATION FOR BUILT-IN SELF TEST
7,038,950	AF01388US	United States	11/05/2004	05/02/2006	IMPROVED MULTI BIT PROGRAM ALGORITHM
7,284,167	AF01389US	United States	01/24/2005	10/16/2007	AUTOMATED TESTS FOR BUILT IN SELF TEST
7,130,210	AF01390US	United States	01/13/2005	10/31/2006	MULTI-LEVEL ONO FLASH PROGRAM ALGORITHM FOR THRESHOLD WIDTH CONTROL
7,306,988	AF01393	United States	02/22/2005	12/11/2007	MEMORY CELL AND METHOD OF MAKING THE MEMORY CELL
7,148,144	AF01395US	United States	09/13/2004	12/12/2006	METHOD OF FORMING COPPER SULFIDE LAYER OVER SUBSTRATE
8,039,391	AF01396	United States	03/27/2006	10/18/2011	A METHOD OF FORMING A CONTACT IN A SEMICONDUCTOR DEVICE WITH ENGINEERED PLASMA TREATMENT PROFILE OF BARRIER METAL LAYER
7,675,104	AF01396US	United States	07/31/2006	03/09/2010	INTEGRATED CIRCUIT MEMORY SYSTEM EMPLOYING SILICON RICH LAYERS
10/935,344	AF01397US	United States	09/07/2004		SYSTEMS AND METHODS TO REDUCE LINE EDGE ROUGHNESS (LER)
7,084,062	AF01398US	United States	01/12/2005	08/01/2006	USE OF TA-CAPPED METAL LINE TO IMPROVE FORMATION OF MEMORY ELEMENT FILMS
7,288,782	AF01398US DIV	United States	10/14/2005	10/30/2007	USE OF Ta-CAPPED METAL LINE TO IMPROVE FORMATION OF MEMORY ELEMENT FILMS
8,274,073	AF01400US	United States	03/11/2005	09/25/2012	MEMORY DEVICE WITH IMPROVED SWITCHING SPEED AND DATA RETENTION
7,221,595	AF01402US	United States	07/29/2005	05/22/2007	SEMICONDUCTOR DEVICE AND METHOD OF GENERATING SENSE SIGNAL
7,227,778	AF01403US	United States	07/29/2005	06/05/2007	SEMICONDUCTOR DEVICE AND WRITING METHOD
7,184,338	AF01404US	United States	08/30/2005	02/27/2007	SEMICONDUCTOR DEVICE, SEMICONDUCTOR DEVICE TESTING METHOD, AND PROGRAMMING METHOD
11/389,095	AF01407US	United States	03/27/2006		METHOD OF FORMING A CONTACT WITH IMPROVED CONTACT FILL INCLUDING MULTIPLE CYCLE BARRIER METAL DEPOSITION AND PLASMA TREATMENT
11/388,975	AF01408US	United States	03/27/2006		A METHOD OF FORMING IMPROVED CONTACT METAL BOTTOM COVERAGE WITH REDUCED OVERHANG IN A CONTACT HOLE
7,450,416	AF01409US	United States	12/23/2004	11/11/2008	UTILIZATION OF MEMORY-DIODE WHICH MAY HAVE EACH OF A PLURALITY OF DIFFERENT MEMORY STATES
10/928,354	AF01411	United States	08/27/2004		DEPOSITION OF HARD-MASK WITH MINIMIZED HILLOCKS AND BUBBLES
7,490,192	AF01412US CON	United States	07/29/2004	02/10/2009	METHOD AND APPARATUS FOR INFORMATION SETTING IN A NON-VOLATILE MEMORY DEVICE
7,221,594	AF01413US	United States	07/29/2005	05/22/2007	SEMICONDUCTOR DEVICE AND METHOD FOR WRITING DATA INTO SEMICONDUCTOR DEVICE
7,450,434	AF01416US	United States	05/12/2005	11/11/2008	SEMICONDUCTOR DEVICE AND ITS CONTROL METHOD
7,729,170	AF01416US DIV	United States	09/15/2008	06/01/2010	SEMICONDUCTOR DEVICE AND ITS CONTROL METHOD
7,821,833	AF01416US DIV2	United States	09/15/2008	10/26/2010	SEMICONDUCTOR DEVICE AND ITS CONTROL METHOD
7,113,442	AF01417US	United States	05/11/2005	09/26/2006	NON-VOLATILE SEMICONDUCTOR MEMORY, SEMICONDUCTOR DEVICE AND CHARGE PUMP CIRCUIT
7,206,241	AF01422US	United States	05/11/2005	04/17/2007	SEMICONDUCTOR DEVICE AND PROGRAMMING METHOD
7,221,587	AF01423US	United States	05/11/2005	05/22/2007	SEMICONDUCTOR DEVICE AND PROGRAMMING METHOD
7,224,602	AF01425US	United States	05/11/2005	05/29/2007	SEMICONDUCTOR DEVICE AND CONTROL METHOD HAVING DATA PROTECTION FEATURE
7,307,894	AF01427US	United States	05/12/2005	12/11/2007	SEMICONDUCTOR DEVICE AND CONTROL METHOD OF THE SAME
7,280,414	AF01432US	United States	08/30/2005	10/09/2007	NON-VOLATILE MEMORY DEVICE, AND CONTROL METHOD THEREFOR
7,651,826	AF01434US	United States	11/30/2005	01/26/2010	SEMICONDUCTOR DEVICE, FABRICATING METHOD THEREOF, AND PHOTOMASK
12/575,122	AF01434US DIV	United States	10/07/2009		SEMICONDUCTOR DEVICE, FABRICATING METHOD THEREOF, AND PHOTOMASK
7,239,548	AF01438US	United States	12/21/2005	07/03/2007	METHOD AND APPARATUS FOR APPLYING BIAS TO A STORAGE DEVICE
7,251,161	AF01439US	United States	11/30/2005	07/31/2007	SEMICONDUCTOR DEVICE AND METHOD OF CONTROLLING SAID SEMICONDUCTOR DEVICE
7,415,568	AF01441US CON	United States	07/28/2005	08/19/2008	METHOD AND APPARATUS FOR INITIALIZATION CONTROL IN A NON-VOLATILE MEMORY DEVICE
7,285,848	AF01443US	United States	05/11/2005	10/23/2007	CARRIER FOR STACKED TYPE SEMICONDUCTOR DEVICE AND METHOD OF FABRICATING THE SAME
7,642,637	AF01443US DIV	United States	08/22/2007	01/05/2010	CARRIER FOR STACKED TYPE SEMICONDUCTOR DEVICE AND METHOD OF FABRICATING THE SAME
7,675,107	AF01445US	United States	12/27/2005	03/09/2010	SONOS WITH USE OF SWITCH GATE, WITHOUT BURIED DIFFUSION LAYER BITLINE
7,888,209	AF01445US DIV	United States	10/07/2009	02/15/2011	NON-VOLATILE SONOS-TYPE MEMORY DEVICE
11/133,966	AF01446US	United States	05/20/2005		METHOD FOR FABRICATING SEMICONDUCTOR DEVICE AND SEMICONDUCTOR DEVICE
7,488,657	AF01447US	United States	06/16/2005	02/10/2009	METHOD AND SYSTEM FOR FORMING STRAIGHT WORD LINES IN A FLASH MEMORY ARRAY
7,851,306	AF01447US DIV	United States	12/03/2008	12/14/2010	METHOD FOR FORMING A FLASH MEMORY DEVICE WITH STRAIGHT WORD LINES

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PATENT OR APPL NO.	SPANSION REFERENCE NO.	COUNTRY	FILING DATE	ISSUE DATE	TITLE
7,151,028	AF01449US	United States	11/04/2004	12/19/2006	MEMORY CELL WITH PLASMA-GROWN OXIDE SPACER FOR REDUCED DIBL AND VSS RESISTANCE AND INCREASED RELIABILITY
7,238,569	AF01451US	United States	04/25/2005	07/03/2007	THE FORMATION METHOD OF AN ARRAY SOURCE LINE IN NAND FLASH MEMORY
7,505,328	AF01452US	United States	08/14/2006	03/17/2009	METHOD AND ARCHITECTURE FOR FAST FLASH MEMORY PROGRAMMING
7,764,546	AF01452US DIV	United States	03/17/2009	07/27/2010	METHOD AND ARCHITECTURE FOR FAST FLASH MEMORY PROGRAMMING
7,206,224	AF01453US	United States	01/18/2005	04/17/2007	METHOD AND SYSTEMS FOR HIGH WRITE PERFORMANCE IN MULTI-BIT FLASH MEMORY DEVICES
60/563,046	AF01453US	United States	04/16/2004		METHOD AND SYSTEMS FOR HIGH WRITE PERFORMANCE IN MULTI-BIT FLASH MEMORY DEVICES
7,283,402	AF01453US DIV	United States	01/16/2007	10/16/2007	METHODS AND SYSTEMS FOR HIGH WRITE PERFORMANCE IN MULTI-BIT FLASH MEMORY DEVICES
7,307,879	AF01454US	United States	11/29/2005	12/11/2007	NONVOLATILE MEMORY DEVICE, AND ITS MANUFACTURING METHOD
7,736,953	AF01455US	United States	11/30/2005	06/15/2010	SEMICONDUCTOR MEMORY AND METHOD OF FABRICATING THE SAME
7,232,724	AF01458US	United States	04/25/2005	06/19/2007	RADICAL OXIDATION FOR BITLINE OXIDE OF SONOS
7,303,964	AF01459US	United States	04/25/2005	12/04/2007	SELF-ALIGNED STI SONOS
7,196,008	AF01461	United States	03/23/2005	03/27/2007	ALUMINUM OXIDE AS LINER OR COVER LAYER TO SPACERS IN MEMORY DEVICE
7,286,398	AF01462US	United States	11/30/2004	10/23/2007	SEMICONDUCTOR DEVICE AND METHOD OF CONTROLLING SAID SEMICONDUCTOR DEVICE
7,263,007	AF01463US	United States	09/16/2005	08/28/2007	SEMICONDUCTOR MEMORY DEVICE USING READ DATA BUS FOR WRITING DATA DURING HIGH-SPEED WRITING
7,151,293	AF01464US	United States	08/27/2004	12/19/2006	SONOS MEMORY WITH INVERSION BIT-LINES
7,501,677	AF01464US DIV	United States	11/10/2006	03/10/2009	SONOS MEMORY WITH INVERSION BIT-LINES
8,125,018	AF01467US	United States	01/12/2005	02/28/2012	MEMORY DEVICE HAVING TRAPEZOIDAL BITLINES AND METHOD OF FABRICATING SAME
8,957,472	AF01467US DIV	United States	01/24/2012	02/17/2015	MEMORY DEVICE HAVING TRAPEZOIDAL BITLINES AND METHOD OF FABRICATING SAME
11/257,825	AF01468US CON	United States	10/24/2005		SEMICONDUCTOR DEVICE AND METHOD OF FABRICATING THE SAME
7,227,780	AF01470US	United States	11/30/2005	06/05/2007	SEMICONDUCTOR DEVICE AND CONTROL METHOD THEREOF
7,286,407	AF01472US	United States	10/28/2005	10/23/2007	SEMICONDUCTOR DEVICE AND METHOD FOR CONTROLLING THE SAME
11/215,184	AF01473US	United States	08/29/2005		ONE STEP REACTIVE ION ETCH TO REMOVE MULTIPLE OXIDE AND NITRIDE LAYERS
7,362,620	AF01475US	United States	03/31/2006	04/22/2008	SEMICONDUCTOR DEVBICE AND METHOD OF CONTROLLING THE SAME
7,910,974	AF01477US	United States	10/28/2005	03/22/2011	SEMICONDUCTOR DEVICE AND METHOD FOR FABRICATING THEREOF
8,389,361	AF01477US DIV	United States	03/22/2011	03/05/2013	SEMICONDUCTOR DEVICE AND METHOD FOR FABRICATING THEREOF
13/786,252	AF01477US DIV2	United States	03/05/2013		SEMICONDUCTOR DEVICE AND METHOD FOR FABRICATING THEREOF
7,321,511	AF01479US	United States	12/22/2005	01/22/2008	SEMICONDUCTOR DEVICE AND METHOD FOR CONTROLLING OPERATION THEREOF
11/139,228	AF01480US	United States	05/27/2005		VERIFY AND READ CIRCUIT FOR NANO SCALE RESISTIVE MEMORY
11/446,611	AF01481US	United States	06/05/2006		WET ETCH CHEMISTRIES AND PROCESSES FOR ELECTRONIC DEVICES
7,259,983	AF01482US	United States	05/27/2005	08/21/2007	PAGE BUFFER ARCHITECTURE FOR PROGRAMMING, ERASING AND READING NANOSCALE RESISTIVE MEMORY DEVICES
7,378,682	AF01484US	United States	02/07/2005	05/27/2008	MEMORY ELEMENT USING ACTIVE LAYERS OF BLENDED MATERIALS
7,379,317	AF01485US	United States	12/23/2004	05/27/2008	METHOD OF PROGRAMMING, READING AND ERASING MEMORY-DIODE IN A MEMORY-DIODE ARRAY
7,154,769	AF01486US	United States	02/07/2005	12/26/2006	MEMORY DEVICE INCLUDING BARRIER LAYER FOR IMPROVED SWITCHING SPEED AND DATA RETENTION
7,269,050	AF01488US	United States	06/07/2005	09/11/2007	METHOD OF PROGRAMMING A MEMORY DEVICE
8,098,521	AF01490US	United States	03/31/2005	01/17/2012	METHOD OF PROVIDING AN ERASE ACTIVATION ENERGY OF A MEMORY DEVICE
13/324,310	AF01490US DIV	United States	12/13/2011		SYSTEM FOR PROGRAMMING A PHASE CHANGE MEMORY DEVICE INCLUDING PROVIDING A SECOND ERASE ACTIVATION ENERGY GREATER THAN A FIRST ERASE ACTIVATION ENERGY THAT CORRESPONDS TO A PROGRAM ENERGY
7,035,141	AF01491US	United States	11/17/2004	04/25/2006	DIODE ARRAY ARCHITECTURE FOR ADDRESSING NANOSCALE RESISTIVE MEMORY ARRAYS
7,830,015	AF01492US	United States	03/25/2005	11/09/2010	MEMORY DEVICE WITH IMPROVED DATA RETENTION
7,968,464	AF01492US DIV	United States	10/05/2010	06/28/2011	Memory device with improved data retention
7,994,007	AF01493US	United States	12/17/2008	08/09/2011	SEMICONDUCTOR DVICE AND METHOD FOR MANUFACTURING DIODES USING ORGANIC MATERIAL
11/021,734	AF01495US	United States	12/23/2004		MEMORY ELEMENTS USING ORGANIC ACTIVE LAYER
7,102,156	AF01496US	United States	12/23/2004	09/05/2006	MEMORY ELEMENT WITH NITROGEN-CONTAINING ACTIVE LAYER
7,208,757	AF01497US	United States	12/23/2004	04/24/2007	MEMORY ELEMENT WITH IMPROVED PERFORMANCE
11/147,059	AF01498US	United States	06/07/2005		PROTECTION OF ACTIVE LAYERS OF MEMORY CELLS DURING PROCESSING OF OTHER ELEMENTS
7,220,642	AF01500US	United States	11/12/2004	05/22/2007	MEMORY DEVICE WITH IMPROVED DATA RETENTION
11/174,861	AF01501US	United States	07/05/2005		MEMORY DEVICE WITH IMPROVED DATA RETENTION
7,449,742	AF01502US	United States	12/20/2006	11/11/2008	MEMORY DEVICES WITH ACTIVE AND PASSIVE LAYERS HAVING MULTIPLE SELF-ASSEMBLED SUBLAYERS
7,633,129	AF01503US	United States	09/16/2005	12/15/2009	

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PATENT OR APPL NO.	SPANSON REFERENCE NO.	COUNTRY	FILING DATE	ISSUE DATE	TITLE
7,468,296	AF01504US	United States	11/30/2005	12/23/2008	THIN FILM GERMANIUM DIODE WITH LOW REVERSE BREAKDOWN
7,307,321	AF01506US	United States	03/25/2005	12/11/2007	MEMORY DEVICE WITH IMPROVED DATA RETENTION
7,307,280	AF01511US	United States	09/16/2005	12/11/2007	MEMORY DEVICES WITH ACTIVE AND PASSIVE DOPED SOL-GEL LAYERS
11/228,839	AF01512US	United States	09/16/2005		MEMORY DEVICES WITH ACTIVE AND PASSIVE LAYERS HAVING MULTIPLE SPIN-ON SUBLAYERS
11/174,881	AF01514US	United States	07/05/2005		STACKABLE MEMORY DEVICE AND ORGANIC TRANSISTOR STRUCTURE
7,312,641	AF01523US	United States	12/28/2004	12/25/2007	SENSE AMPLIFIER WITH HIGH VOLTAGE SWING
7,498,849	AF01523US DIV	United States	11/15/2007	03/03/2009	SENSE AMPLIFIERS WITH HIGH VOLTAGE SWING
7,126,862	AF01524US	United States	03/08/2005	10/24/2006	DECODER FOR MEMORY DEVICE
10/975,629	AF01527	United States	10/28/2004		SYSTEM AND METHOD FOR IMPROVED MEMORY PERFORMANCE IN A MOBILE DEVICE
7,319,623	AF01528US	United States	11/04/2004	01/15/2008	METHOD FOR ISOLATING A FAILURE SITE IN A WORDLINE IN A MEMORY ARRAY
7,274,592	AF01530US CON	United States	01/30/2006	09/25/2007	NON-VOLATILE MEMORY AND METHOD OF CONTROLLING THE SAME
7,158,442	AF01531US	United States	05/23/2005	01/02/2007	FLEXIBLE LATENCY IN FLASH MEMORY
10/987,678	AF01532	United States	11/12/2004		INTEGRATED CIRCUIT PACKAGE AND MANUFACTURING METHOD
7,446,369	AF01535US	United States	08/04/2005	11/04/2008	SONOS MEMORY CELL HAVING HIGH-K DIELECTRIC
7,320,914	AF01536US	United States	02/23/2005	01/22/2008	SYSTEM AND METHOD FOR GATE FORMATION IN A SEMICONDUCTOR DEVICE
7,927,723	AF01537US	United States	03/29/2005	04/19/2011	FILM STACKS TO PREVENT UV-INDUCED DEVICE DAMAGE
7,238,571	AF01539US	United States	02/24/2005	07/03/2007	NON-VOLATILE MEMORY DEVICE WITH INCREASED RELIABILITY
8,022,468	AF01540US	United States	03/29/2005	09/20/2011	ULTRAVIOLET RADIATION BLOCKING INTERLAYER DIELECTRIC
11/062,628	AF01541US	United States	02/23/2005		LITHOGRAPHIC MARK ISOLATION FOR OVERLAY ALIGNMENT
7,476,604	AF01542US	United States	05/13/2005	01/13/2009	AGGRESSIVE CLEANING PROCESS FOR SEMICONDUCTOR DEVICE CONTACT FORMATION
7,432,178	AF01543US	United States	10/21/2005	10/07/2008	BIT LINE IMPLANT
11/380,971	AF01544US	United States	05/01/2006		BIT LINES FOR SEMICONDUCTOR DEVICES
7,972,948	AF01544US CON	United States	09/13/2010	07/05/2011	METHOD FOR FORMING BIT LINES FOR SEMICONDUCTOR DEVICES
7,811,915	AF01544US DIV	United States	03/14/2008	10/12/2010	METHOD FOR FORMING BIT LINES FOR SEMICONDUCTOR DEVICES
7,285,499	AF01545US	United States	05/12/2005	10/23/2007	POLYMER SPACERS FOR CREATING SUB-LITHOGRAPHIC SPACES
7,341,956	AF01546US	United States	04/07/2005	03/11/2008	DISPOSABLE HARD MASK FOR FORMING BIT LINES
7,220,643	AF01547US	United States	06/08/2005	05/22/2007	SYSTEM AND METHOD FOR GATE FORMATION IN A SEMICONDUCTOR DEVICE
7,888,269	AF01548US	United States	10/24/2005	02/15/2011	TRIPLE LAYER ANTI-REFLECTIVE HARD MASK
7,307,027	AF01549US	United States	08/11/2005	12/11/2007	VOID FREE INTERLAYER DIELECTRIC
11/380,973	AF01550US	United States	05/01/2006		CONDUCTIVE SPACERS FOR DEVICE ELECTRICAL CONTACT
7,256,141	AF01551US	United States	05/24/2005	08/14/2007	INTERFACE LAYER BETWEEN DUAL POLYCRYSTALLINE SILICON LAYERS
7,300,886	AF01552US	United States	06/08/2005	11/27/2007	INTERLAYER DIELECTRIC FOR CHARGE LOSS IMPROVEMENT
7,704,878	AF01553US	United States	10/03/2005	04/27/2010	CONTACT SPACER FORMATION USING ATOMIC LAYER DEPOSITION
7,561,457	AF01577US	United States	08/18/2006	07/14/2009	SELECT TRANSISTOR USING BURIED BITLINE (FROM CORE) AS SOURCE AND DRAIN
7,402,868	AF01578US	United States	11/01/2004	07/22/2008	SYSTEM AND METHOD FOR PROTECTING SEMICONDUCTOR DEVICES
7,167,398	AF01579US	United States	02/23/2005	01/23/2007	SYSTEM AND METHOD FOR ERASING A MEMORY CELL
10/989,254	AF01580US	United States	11/17/2004		MEMORY CELL HAVING N-TYPE SUBSTRATE
11/100,562	AF01581US	United States	04/07/2005		METHOD FOR ERASING A MEMORY DEVICE
7,750,407	AF01582US	United States	12/18/2006	07/06/2010	STRAPPING CONTACT FOR CHARGE PROTECTION
8,404,541	AF01582US DIV	United States	05/28/2010	03/26/2013	STRAPPING CONTACT FOR CHARGE PROTECTION
7,285,827	AF01583US	United States	08/02/2005	10/23/2007	BACK-TO-BACK NPN/PNP PROTECTION DIODES
7,573,103	AF01583US CON	United States	09/14/2007	08/11/2009	BACK-TO-BACK NPN/PNP PROTECTION DIODES
8,148,770	AF01584US	United States	06/24/2005	04/03/2012	MEMORY DEVICE WITH BURIED BIT LINE STRUCTURE
7,269,067	AF01586US	United States	07/06/2005	09/11/2007	PROGRAMMING A MEMORY DEVICE
8,912,014	AF01587US	United States	01/18/2006	12/16/2014	CONTROLLING THE LATCHUP EFFECT
14/570,801	AF01587US DIV	United States	12/15/2014		CONTROLLING THE LATCHUP EFFECT
7,170,796	AF01588US	United States	08/01/2005	01/30/2007	METHODS AND SYSTEMS FOR REDUCING THE THRESHOLD VOLTAGE DISTRIBUTION FOLLOWING A MEMORY CELL ERASE
7,678,674	AF01589US	United States	08/26/2005	03/16/2010	MEMORY CELL DUAL POCKET IMPLANT
7,262,095	AF01600US	United States	06/07/2005	08/28/2007	SYSTEM AND METHOD FOR REDUCING PROCESS-INDUCED CHARGING
8,203,178	AF01600US CON	United States	08/20/2010	06/19/2012	SYSTEM AND METHOD FOR REDUCING PROCESS-INDUCED CHARGING
7,804,125	AF01600US DIV	United States	07/24/2007	09/28/2010	SYSTEM AND METHOD FOR REDUCING PROCESS-INDUCED CHARGING
7,679,129	AF01601US	United States	05/13/2005	03/16/2010	SYSTEM AND METHOD FOR IMPROVING OXIDE-NITRIDE-OXIDE (ONO) COUPLING IN A SEMICONDUCTOR DEVICE
7,842,618	AF01602US	United States	08/01/2005	11/30/2010	SYSTEM AND METHOD FOR IMPROVING MESA WIDTH IN A SEMICONDUCTOR DEVICE
8,598,645	AF01602US DIV	United States	10/22/2010	12/03/2013	SYSTEM AND METHOD FOR IMPROVING MESA WIDTH IN A SEMICONDUCTOR DEVICE
7,079,424	AF01603US	United States	09/22/2004	07/18/2006	METHODS AND SYSTEMS FOR REDUCING ERASE TIMES IN FLASH MEMORY DEVICES
7,599,228	AF01604US	United States	11/01/2004	10/06/2009	FLASH MEMORY DEVICE HAVING INCREASED OVER-ERASE CORRECTION EFFICIENCY AND ROBUSTNESS AGAINST DEVICE VARIATIONS
8,319,266	AF01605US	United States	12/10/2004	11/27/2012	ETCH STOP LAYER FOR MEMORY CELL RELIABILITY IMPROVEMENT
8,658,496	AF01605US DIV	United States	09/14/2012	02/25/2014	ETCH STOP LAYER FOR MEMORY CELL RELIABILITY IMPROVEMENT
7,939,440	AF01606US	United States	06/15/2005	05/10/2011	JUNCTION LEAKAGE SUPPRESSION IN MEMORY DEVICES

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PATENT OR APPL NO.	SPANSON REFERENCE NO.	COUNTRY	FILING DATE	ISSUE DATE	TITLE
8,536,011	AF01606US CON	United States	03/29/2011	09/17/2013	JUNCTION LEAKAGE SUPPRESSION IN MEMORY DEVICES
7,985,687	AF01607US	United States	07/22/2005	07/26/2011	SYSTEMS AND METHOD FOR IMPROVING RELIABILITY IN A SEMICONDUCTOR DEVICE
8,564,041	AF01608US	United States	10/20/2006	10/22/2013	CONTACTS FOR SEMICONDUCTOR DEVICES
14/059,077	AF01608US CON	United States	10/21/2013		CONTACTS FOR SEMICONDUCTOR DEVICES
8,802,537	AF01609US	United States	07/27/2005	08/12/2014	SYSTEM AND METHOD FOR IMPROVING RELIABILITY IN A SEMICONDUCTOR DEVICE
8,759,894	AF01610US	United States	07/27/2005	06/24/2014	SYSTEM AND METHOD FOR REDUCING CROSS-COUPLING NOISE BETWEEN CHARGE STORAGE ELEMENTS IN A SEMICONDUCTOR DEVICE
8,367,493	AF01612US	United States	04/20/2005	02/05/2013	VOID FREE INTERLAYER DIELECTRIC
8,614,475	AF01612US CON	United States	12/31/2012	12/24/2013	VOID FREE INTERLAYER DIELECTRIC
8,133,801	AF01613US	United States	07/27/2005	03/13/2012	METHOD FOR FORMING A SEMICONDUCTOR LAYER WITH IMPROVED GAP FILLING PROPERTIES
8,647,899	AF01613US CON	United States	01/31/2012	02/11/2014	METHOD FOR FORMING A SEMICONDUCTOR LAYER WITH IMPROVED GAP FILLING PROPERTIES
7,492,001	AF01625US	United States	03/23/2005	02/17/2009	HIGH K STACK FOR NON-VOLATILE MEMORY
7,855,114	AF01625US DIV	United States	01/09/2009	12/21/2010	HIGH K STACK FOR NON-VOLATILE MEMORY
7,071,538	AF01626US	United States	12/10/2004	07/04/2006	ONO STACK WITH STEAM OXIDE FOR CHARGE RETENTION
7,863,128	AF01627US	United States	02/04/2005	01/04/2011	NON-VOLATILE MEMORY DEVICE WITH IMPROVED ERASE SPEED
7,365,389	AF01628US	United States	12/10/2004	04/29/2008	MEMORY CELL HAVING ENHANCED HIGH-K DIELECTRIC
7,671,403	AF01630US	United States	12/06/2006	03/02/2010	P-CHANNEL NAND IN ISOLATED N-WELL
7,381,620	AF01631US	United States	03/09/2006	06/03/2008	OXYGEN ELIMINATION FOR DEVICE PROCESSING
7,498,222	AF01632US	United States	03/09/2006	03/03/2009	ENHANCED ETCHING OF A HIGH DIELECTRIC CONSTANT LAYER
7,879,718	AF01634US	United States	12/27/2006	02/01/2011	LOCAL INTERCONNECT HAVING INCREASED MISALIGNMENT TOLERANCE
8,283,249	AF01634US CON	United States	12/16/2010	10/09/2012	LOCAL INTERCONNECT HAVING INCREASED MISALIGNMENT TOLERANCE
8,314,454	AF01634US DIV	United States	12/16/2010	11/20/2012	LOCAL INTERCONNECT HAVING INCREASED MISALIGNMENT TOLERANCE
13/616,719	AF01634US DIV CON	United States	09/14/2012		LOCAL INTERCONNECT HAVING INCREASED MISALIGNMENT TOLERANCE
11/371,025	AF01635US	United States	03/09/2006		SALICIDED LOCAL INTERCONNECT FOR SOURCE LINE
7,202,128	AF01636US	United States	06/24/2005	04/10/2007	METHOD OF FORMING A MEMORY DEVICE HAVING IMPROVED ERASE SPEED
7,465,644	AF01637US	United States	10/26/2005	12/16/2008	ISOLATION REGION BIRD'S BEAK SUPPRESSION
7,053,445	AF01638US	United States	08/02/2005	05/30/2006	MEMORY DEVICE WITH BARRIER LAYER
7,816,724	AF01638US	United States	07/21/2006	10/19/2010	MEMORY DEVICE WITH BARRIER LAYER
7,573,091	AF01642US CON	United States	02/23/2006	08/11/2009	SEMICONDUCTOR DEVICE AND METHOD OF MANUFACTURING THE SAME
7,977,189	AF01642US DIV	United States	07/14/2009	07/12/2011	SEMICONDUCTOR DEVICE AND METHOD OF MANUFACTURING THE SAME
7,323,744	AF01643US CON	United States	02/24/2006	01/29/2008	SEMICONDUCTOR DEVICE AND FABRICATION METHOD THEREFOR
7,489,029	AF01644US	United States	08/30/2005	02/10/2009	CARRIER STRUCTURE FOR STACKED-TYPE SEMICONDUCTOR DEVICE, METHOD OF PRODUCING THE SAME, AND METHOD OF FABRICATING STACKED-TYPE SEMICONDUCTOR DEVICE
12/315,417	AF01644US DIV	United States	12/03/2008		CARRIER STRUCTURE FOR STACKED-TYPE SEMICONDUCTOR DEVICE, METHOD OF PRODUCING THE SAME, AND METHOD OF FABRICATING STACKED-TYPE SEMICONDUCTOR DEVICE
8,443,131	AF01645US	United States	10/26/2005	05/14/2013	NON-VOLATILE MEMORY DEVICE
7,737,019	AF01646US	United States	03/08/2005	06/15/2010	METHOD FOR CONTAINING A SILICIDED GATE WITHIN A SIDEWALL SPACER IN INTEGRATED CIRCUIT TECHNOLOGY
8,252,676	AF01646US CON	United States	04/30/2010	08/28/2012	METHOD FOR CONTAINING A SILICIDED GATE WITHIN A SIDEWALL SPACER IN INTEGRATED CIRCUIT TECHNOLOGY
10/993,253	AF01647	United States	11/19/2004		SYSTEM AND METHOD FOR IN-PACKAGE MEMORY PROCESSING
7,679,150	AF01650US	United States	04/27/2006	03/16/2010	SEMICONDUCTOR DEVICE AND PROGRAMMING METHOD THEREFOR
7,052,961	AF01652	United States	12/03/2004	05/30/2006	METHOD FOR FORMING WORDLINES HAVING IRREGULAR SPACING IN A MEMORY ARRAY
8,901,637	AF01653US CON	United States	01/24/2006	12/02/2014	SEMICONDUCTOR MEMORY DEVICE HAVING LOWERED BIT LINE RESISTANCE
14/540,803	AF01653US DIV	United States	11/13/2014		SEMICONDUCTOR DEVICE AND METHOD OF FABRICATING THE SAME
11/341,932	AF01654US CON	United States	01/26/2006		SEMICONDUCTOR DEVICE AND METHOD OF FABRICATING THE SAME
7,622,067	AF01657US	United States	05/26/2006	11/24/2009	RESIN-SEALING METHOD USING INTERMEDIATE PLATE
7,414,277	AF01658US	United States	04/22/2005	08/19/2008	MEMORY CELL HAVING COMBINATION RAISED SOURCE AND DRAIN AND METHOD OF FABRICATING SAME
11/363,792	AF01661US CON	United States	02/28/2006		SEMICONDUCTOR DEVICE AND FABRICATION METHOD THEREOF
7,968,404	AF01662US CON	United States	02/24/2006	06/28/2011	SEMICONDUCTOR DEVICE AND FABRICATION METHOD THEREFOR
7,414,305	AF01663US CON	United States	01/27/2006	08/19/2008	CARRIER FOR STACKED TYPE SEMICONDUCTOR DEVICE AND METHOD OF FABRICATING STACKED TYPE SEMICONDUCTOR DEVICE
7,846,771	AF01663US DIV	United States	07/01/2008	12/07/2010	CARRIER FOR STACKED TYPE SEMICONDUCTOR DEVICE AND METHOD OF FABRICATING STACKED TYPE SEMICONDUCTOR DEVICE
7,312,495	AF01665US	United States	04/07/2005	12/25/2007	SPLIT GATE MULTI-BIT MEMORY CELL
8,445,972	AF01666US	United States	03/31/2006	05/21/2013	SEMICONDUCTOR DEVICE WITH RECONFIGURABLE LOGIC
7,443,732	AF01668US	United States	09/20/2005	10/28/2008	HIGH PERFORMANCE FLASH MEMORY DEVICE CAPABLE OF HIGH DENSITY DATA STORAGE
7,433,228	AF01669US	United States	09/20/2005	10/07/2008	MULTI-BIT FLASH MEMORY DEVICE HAVING IMPROVED PROGRAM RATE

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7,295,475	AF01673US	United States	09/20/2005	11/13/2007	FLASH MEMORY PROGRAMMING USING AN INDICATION BIT TO INTERPRET STATE
8,358,543	AF01674US	United States	09/20/2005	01/22/2013	FLASH MEMORY PROGRAMMING WITH DATA DEPENDENT CONTROL OF SOURCE LINES
7,352,626	AF01675US	United States	08/29/2005	04/01/2008	VOLTAGE REGULATOR WITH LESS OVERSHOOT AND FASTER SETTLING TIME
7,706,183	AF01676US	United States	07/27/2005	04/27/2010	IMPROVED READ MODE FOR FLASH MEMORY
8,107,294	AF01676US DIV	United States	03/24/2010	01/31/2012	IMPROVED READ MODE FOR FLASH MEMORY
7,342,830	AF01677US	United States	01/17/2006	03/11/2008	IMPROVED PROGRAM AND PROGRAM VERIFY OPERATIONS FOR FLASH MEMORY
7,196,938	AF01681US	United States	09/20/2005	03/27/2007	CHARGE SHARING TECHNIQUE DURING FLASH MEMORY PROGRAMMING
7,423,915	AF01682US	United States	01/17/2006	09/09/2008	RANDOM CACHE READ USING A DOUBLE MEMORY
7,307,878	AF01684US	United States	08/29/2005	12/11/2007	FLASH MEMORY DEVICE HAVING IMPROVED PROGRAM RATE
7,453,724	AF01684US DIV	United States	10/31/2007	11/18/2008	FLASH MEMORY DEVICE HAVING IMPROVED PROGRAM RATE
7,957,204	AF01686US	United States	09/20/2005	06/07/2011	FLASH MEMORY PROGRAMMING POWER REDUCTION
8,462,564	AF01686US CON	United States	04/20/2011	06/11/2013	FLASH MEMORY PROGRAMMING POWER REDUCTION
11/258,823	AF01688US	United States	10/25/2005		SEMICONDUCTOR DEVICE AND METHOD OF FABRICATING THE SAME
11/317,083	AF01689US	United States	12/21/2005		FABRICATION METHOD FOR A SEMICONDUCTOR DEVICE
7,239,576	AF01690US CON	United States	01/27/2006	07/03/2007	MEMORY DEVICE AND METHOD OF CONTROLLING THE SAME
7,239,574	AF01691US	United States	12/21/2005	07/03/2007	SYNCHRONOUS STORAGE DEVICE AND CONTROLLING METHOD THEREOF
8,089,110	AF01693US	United States	02/09/2006	01/03/2012	SWITCHABLE MEMORY DIODES BASED ON FERROELECTRIC/CONJUGATED POLYMER HETEROSTRUCTURES AND/OR THEIR COMPOSITES
8,710,628	AF01693US DIV	United States	12/09/2011	04/29/2014	SWITCHABLE MEMORY DIODES BASED ON FERROELECTRIC/CONJUGATED POLYMER HETEROSTRUCTURES AND/OR THEIR COMPOSITES
14/222,258	AF01693US DIV2	United States	03/21/2014		SWITCHABLE MEMORY DIODES BASED ON FERROELECTRIC/CONJUGATED POLYMER HETEROSTRUCTURES AND/OR THEIR COMPOSITES
7,645,693	AF01694US	United States	04/27/2006	01/12/2010	SEMICONDUCTOR DEVICE AND PROGRAMMING METHOD THEREFOR
8,586,413	AF01695US	United States	05/04/2005	11/19/2013	MULTI-CHIP MODULE HAVING A SUPPORT STRUCTURE AND METHOD OF MANUFACTURE
14/076,706	AF01695US DIV	United States	11/11/2013		MULTI-CHIP MODULE AND METHOD OF MANUFACTURE
7,696,616	AF01696US	United States	01/25/2006	04/13/2010	STACKED TYPE SEMICONDUCTOR DEVICE AND METHOD OF FABRICATING STACKED TYPE SEMICONDUCTOR DEVICE
7,433,219	AF01698US CON	United States	01/27/2006	10/07/2008	METHOD AND APPARATUS FOR ADDRESS ALLOTING AND VERIFICATION IN A SEMICONDUCTOR DEVICE
7,813,154	AF01698US DIV	United States	09/18/2008	10/12/2010	METHOD AND APPARATUS FOR ADDRESS ALLOTING AND VERIFICATION IN A SEMICONDUCTOR DEVICE
8,023,341	AF01698US DIV2	United States	10/12/2010	09/20/2011	METHOD AND APPARATUS FOR ADDRESS ALLOTING AND VERIFICATION IN A SEMICONDUCTOR DEVICE
7,692,236	AF01700US	United States	02/15/2005	04/06/2010	MULTIPLE DUAL BIT MEMORY INTEGRATED CIRCUIT SYSTEM
11/045,450	AF01705US	United States	01/28/2005		DIODE STRUCTURE AND METHOD OF MANUFACTURE
11/394,986	AF01707US	United States	03/30/2006		STACKED-TYPE SEMICONDUCTOR DEVICE AND METHOD OF MANUFACTURING THE SAME
7,397,696	AF01708US	United States	12/28/2004	07/08/2008	CURRENT SENSING ARCHITECTURE FOR HIGH BITLINE VOLTAGE, RAIL TO RAIL OUTPUT SWING AND V _{CC} NOISE CANCELLATION
7,099,204	AF01709US	United States	03/23/2005	08/29/2006	CURRENT SENSING CIRCUIT WITH A CURRENT-COMPENSATED DRAIN VOLTAGE REGULATION
7,327,186	AF01710US	United States	05/24/2005	02/05/2008	FAST WIDE OUTPUT RANGE CMOS VOLTAGE REFERENCE
7,321,513	AF01713US	United States	03/28/2006	01/22/2008	SEMICONDUCTOR DEVICE AND METHOD OF GENERATING A REFERENCE VOLTAGE THEREFOR
7,354,826	AF01715US	United States	04/22/2005	04/08/2008	METHOD FOR FORMING MEMORY ARRAY BITLINES COMPRISING EPITAXIALLY GROWN SILICON AND RELATED STRUCTURE
7,236,843	AF01716US	United States	07/20/2005	06/26/2007	METHOD AND APPARATUS FOR SCHEDULING WORK IN A FABRICATION FACILITY
7,141,838	AF01720US	United States	01/27/2005	11/28/2006	BURIED WORD LINE MEMORY INTEGRATED CIRCUIT SYSTEM
8,508,047	AF01720US DIV	United States	10/17/2006	08/13/2013	BURIED WORD LINE MEMORY INTEGRATED CIRCUIT SYSTEM
7,466,605	AF01721US CON	United States	02/22/2006	12/16/2008	SEMICONDUCTOR DEVICE AND CONTROL METHOD THEREFOR
11/361,223	AF01723US CON	United States	02/23/2006		METHOD AND APPARATUS FOR REDUNDANCY SETTING IN A STORAGE DEVICE
7,352,638	AF01724US CON	United States	02/23/2006	04/01/2008	METHOD AND APPARATUS FOR TESTING A MEMORY DEVICE
7,239,553	AF01725US CON	United States	01/31/2006	07/03/2007	METHOD AND APPARATUS FOR REFERENCE CELL ADJUSTING IN A STORAGE DEVICE
7,626,227	AF01728US	United States	04/27/2006	12/01/2009	SEMICONDUCTOR DEVICE AND MANUFACTURING METHOD THEREFOR
11/441,771	AF01729US	United States	05/26/2006		SEMICONDUCTOR DEVICE AND METHOD FOR FABRICATING THE SAME
7,163,839	AF01730US	United States	04/27/2005	01/16/2007	MULTI CHIP MODULE AND METHOD OF MANUFACTURE
11/165,629	AF01731	United States	06/23/2005		SEMICONDUCTOR COMPONENT AND METHOD OF MANUFACTURE
7,385,844	AF01733US CIP	United States	07/27/2006	06/10/2008	SEMICONDUCTOR DEVICE AND METHOD OF CONTROLLING THE SAME
7,825,457	AF01735US	United States	04/27/2006	11/02/2010	SEMICONDUCTOR DEVICE AND MANUFACTURING METHOD THEREFOR
8,097,518	AF01735US DIV	United States	10/06/2010	01/17/2012	SEMICONDUCTOR DEVICE AND MANUFACTURING METHOD THEREFOR
13/323,579	AF01735US DIV2	United States	12/12/2011		SEMICONDUCTOR DEVICE AND MANUFACTURING METHOD THEREFOR

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7,739,559	AF01739US	United States	05/30/2006	06/15/2010	MEMORY DEVICE COMPRISING A PROGRAM ERROR RECOVERY FUNCTION
11/136,981	AF01741	United States	05/25/2005		READ-ONLY MEMORY ARRAY WITH DIELECTRIC BREAKDOWN PROGRAMMABILITY
8,076,753	AF01742US CIP	United States	06/30/2006	12/13/2011	SEMICONDUCTOR DEVICE AND METHOD OF MANUFACTURING THE SAME
8,698,280	AF01742US CON	United States	12/08/2011	04/15/2014	CAPACITIVE ELEMENT USING MOS TRANSISTORS
8,642,422	AF01742US DIV	United States	12/08/2011	02/04/2014	METHOD OF MANUFACTURING SEMICONDUCTOR DEVICE
7,321,515	AF01743US	United States	03/16/2006	01/22/2008	MEMORY DEVICE AND CONTROL METHOD THEREFOR
7,943,982	AF01744US	United States	05/30/2005	05/17/2011	SEMICONDUCTOR DVICE HAVING LAMINATED ELECTRONIC CONDUCTOR ON BIT LINE
8,278,171	AF01744US DIV	United States	04/07/2011	10/02/2012	SEMICONDUCTOR DVICE HAVING LAMINATED ELECTRONIC CONDUCTOR ON BIT LINE
7,376,033	AF01745US CON	United States	05/30/2006	05/20/2008	SEMICONDUCTOR DEVICE AND PROGRAMMING METHOD THEREFOR
11/227,749	AF01746	United States	09/11/2006		METHOD FOR FORMING SPACERS BETWEEN BITLINES IN A VIRTUAL GROUND MEMORY ARRAY AND REALTED STRUCTURE
7,273,775	AF01747US	United States	10/04/2005	09/25/2007	RELIABLE AND SCALABLE VIRTUAL GROUND MEMORY ARRAYS FORMED WITH REDUCED THERMAL CYCLE
5,815,438	AF01757TW	United States	02/28/1997	09/29/1998	OPTIMIZED BIASING SCHEME FOR NAND READ AND HOT-CARRIER WRITE OPERATIONS
7,274,602	AF01758US CON	United States	05/30/2006	09/25/2007	STORAGE DEVICE AND CONTROL METHOD THEREFOR
11/158,510	AF01759	United States	06/22/2005		AUTOMATIC RESOURCE ASSIGNMENT IN DEVICES HAVING STACKED MODULES
60/655,269	AF01759	United States	02/21/2005		DEVICE HAVING STACKED MODULES
60/655,271	AF01759	United States	02/22/2005		DEVICE HAVING STACKED MODULES
7,286,384	AF01760US	United States	06/22/2005	10/23/2007	AUTOMATIC RESOURCE ASSIGNMENT IN STACKED MODULE DEVICES
7,691,668	AF01761US	United States	12/19/2006	04/06/2010	METHOD AND APPARATUS FOR MULTI-CHIP PACKAGING
8,324,716	AF01761US DIV	United States	03/09/2010	12/04/2012	METHOD AND APPARATUS FOR MULTI-CHIP PACKAGING
7,227,768	AF01762US	United States	07/01/2005	06/05/2007	POWER INTERCONNECT STRUCTURE FOR BALANCED BITLINE CAPACITANCE IN A MEMORY ARRAY
7,260,014	AF01763US	United States	10/14/2005	08/21/2007	VOLTAGE SUPPLY CIRCUIT FOR MEMORY ARRAY PROGRAMMING
7,462,903	AF01765US	United States	09/14/2005	12/09/2008	METHODS FOR FABRICATING SEMICONDUCTOR DEVICES AND CONTACTS TO SEMICONDUCTOR DEVICES
8,803,216	AF01766US	United States	03/20/2006	08/12/2014	MEMORY CELL SYSTEM USING SILICON-RICH NITRIDE
7,372,743	AF01770US CIP	United States	12/13/2006	05/13/2008	A NON VOLATILE MEMORY DEVICE AND ITS CONTROL METHOD
7,928,005	AF01772US	United States	09/27/2005	04/19/2011	METHOD FOR FORMING NARROW STRUCTURES IN A SEMICONDUCTOR DEVICE
8,901,720	AF01772US CON	United States	03/09/2011	12/02/2014	METHOD OF FORMING NARROW STRUCTURES IN A SEMICONDUCTOR DEVICE
7,639,768	AF01773US	United States	05/01/2006	12/29/2009	METHOD FOR IMPROVING PERFORMANCE IN A MOBILE DEVICE
11/126,800	AF01775US	United States	05/11/2005		RESISTIVE MEMORY DEVICE WITH IMPROVED DATA RETENTION AND REDUCED POWER
11/203,359	AF01776	United States	08/12/2005		CONTROL OF THRESHOLD VOLTAGE DISTRIBUTION IN MEMORY ARRAY
7,244,660	AF01777US	United States	10/31/2005	07/17/2007	METHOD FOR MANUFACTURING A SEMICONDUCTOR COMPONENT
7,163,862	AF01778US	United States	10/04/2005	01/16/2007	SEMICONDUCTOR MEMORY DEVICES AND METHODS FOR FABRICATING THE SAME
7,835,183	AF01780US CIP	United States	11/20/2007	11/16/2010	NONVOLATILE STORAGE DEVICE AND CONTROL METHOD THEREOF
7,573,743	AF01781US CIP	United States	08/30/2006	08/11/2009	SEMICONDUCTOR DEVICE AND CONTROL METHOD OF THE SAME
7,903,473	AF01781US CON	United States	07/23/2009	03/08/2011	SEMICONDUCTOR DEVICE AND CONTROL METHOD OF THE SAME
7,889,577	AF01781US DIV	United States	06/25/2009	02/15/2011	SEMICONDUCTOR DEVICE AND CONTROL METHOD OF THE SAME
7,286,388	AF01782US	United States	06/23/2005	10/23/2007	RESISTIVE MEMORY DEVICE WITH IMPROVED DATA RETENTION
8,008,778	AF01783US CIP	United States	06/30/2006	08/30/2011	NON-VOLATILE MEMORY DEVICE AND CONTROL METHOD OF NON-VOLATILE MEMORY DEVICE
13/217,172	AF01783US CIP DIV	United States	08/24/2011		METHOD OF FORMING A DAMASCENE INTERCONNECT ON A BARRIER LAYER (as amended)
8,395,959	AF01784US	United States	08/25/2006	03/12/2013	STORAGE DEVICE, CONTROL METHOD OF STORAGE DEVICE, AND CONTROL METHOD OF STORAGE CONTROL DEVICE
8,811,107	AF01784US DIV	United States	12/21/2012	08/19/2014	STORAGE DEVICE, CONTROL METHOD OF STORAGE DEVICE, AND CONTROL METHOD OF STORAGE CONTROL DEVICE
7,706,197	AF01785US CIP	United States	08/25/2006	04/27/2010	MEMORY DEVICE AND CONTROL METHOD OF MEMORY DEVICE
7,436,715	AF01789US CIP	United States	06/30/2006	10/14/2008	NON-VOLATILE MEMORY DEVICE AND CONTROL METHOD OF NON-VOLATILE MEMORY DEVICE
7,880,218	AF01792US CIP	United States	06/28/2006	02/01/2011	SEMICONDUCTOR DEVICE AND FABRICATION METHOD THEREFOR
8,530,307	AF01792US DIV	United States	12/21/2010	09/10/2013	SEMICONDUCTOR DEVICE AND FABRICATION METHOD THEREFOR
8,222,147	AF01793US CIP	United States	06/29/2006	07/17/2012	SEMICONDUCTOR DEVICE WITH STOP LAYERS AND FABRICATION METHOD USING CERIA SLURRY
13/523,568	AF01793US DIV	United States	06/14/2012		SEMICONDUCTOR DEVICE WITH STOP LAYERS AND FABRICATION METHOD USING CERIA SLURRY
7,635,994	AF01796US	United States	01/20/2006	12/22/2009	FAST RAIL-TO-RAIL VOLTAGE COMPARATOR AND METHOD FOR RAIL-TO-RAIL VOLTAGE COMPARISON
7,632,689	AF01797US	United States	10/03/2006	12/15/2009	METHODS FOR CONTROLLING THE PROFILE OF A TRENCH OF A SEMICONDUCTOR STRUCTURE
7,596,032	AF01802US CIP	United States	06/28/2006	09/29/2009	SEMICONDUCTOR DEVICE AND CONTROL METHOD THEREFOR
7,978,523	AF01802US CON	United States	07/30/2009	07/12/2011	SEMICONDUCTOR DEVICE AND CONTROL METHOD OF THE SAME
8,130,584	AF01802US CON2	United States	10/15/2010	03/06/2012	SEMICONDUCTOR DEVICE AND CONTROL METHOD OF THE SAME
8,705,303	AF01802US CON3	United States	03/06/2012	04/22/2014	SEMICONDUCTOR DEVICE AND CONTROL METHOD OF THE SAME
7,969,787	AF01802US DIV	United States	07/30/2009	06/28/2011	SEMICONDUCTOR DEVICE AND CONTROL METHOD THEREFOR
8,264,901	AF01802US DIV CON	United States	10/11/2010	09/11/2012	SEMICONDUCTOR DEVICE AND CONTROL METHOD OF THE SAME

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8,611,167	AF01802US DIV CON DIV	United States	09/11/2012	12/17/2013	SEMICONDUCTOR DEVICE AND CONTROL METHOD OF THE SAME
14/081,987	AF01802US DIV CON DIV2	United States	11/15/2013		SEMICONDUCTOR DEVICE AND CONTROL METHOD OF THE SAME
8,045,388	AF01802US DIV2	United States	06/18/2010	10/25/2011	SEMICONDUCTOR DEVICE AND CONTROL METHOD OF THE SAME
8,351,268	AF01802US DIV3	United States	10/05/2011	01/08/2013	SEMICONDUCTOR DEVICE AND CONTROL METHOD OF THE SAME
7,724,071	AF01803US CIP	United States	07/25/2006	05/25/2010	SEMICONDUCTOR DEVICE AND METHOD OF CONTROLLING THE SAME
11/243,078	AF01806	United States	10/04/2005		DECODER FOR MEMORY DEVICE WITH LOADING CAPACITOR
11/243,064	AF01807	United States	10/04/2005		VOLTAGE BOOSTING FOR MEMORY DEVICE
7,859,026	AF01810US	United States	03/16/2006	12/28/2010	VERTICAL SEMICONDUCTOR DEVICE
7,339,222	AF01811US	United States	05/03/2006	03/04/2008	METHOD FOR DETERMINING WORDLINE CRITICAL DIMENSION IN A MEMORY ARRAY AND RELATED STRUCTURE
11/529,805	AF01812US CIP	United States	09/29/2006		SEMICONDUCTOR DEVICE AND FABRICATION METHOD THEREFOR
7,915,663	AF01813US CIP	United States	07/25/2006	03/29/2011	FABRICATION AND METHOD OF OPERATION OF MULTI-LEVEL MEMORY CELL ON SOI SUBSTRATE
8,369,161	AF01813US CIP DIV	United States	02/11/2011	02/05/2013	SEMICONDUCTOR DEVICE AND CONTROL METHOD THEREFOR
7,589,371	AF01814US CIP	United States	12/15/2008	09/15/2009	SEMICONDUCTOR DEVICE AND FABRICATION METHOD THEREFOR
7,915,661	AF01814US CON	United States	08/18/2009	03/29/2011	SEMICONDUCTOR DEVICE AND FABRICATION METHOD THEREFOR
7,443,746	AF01816US	United States	10/18/2005	10/28/2008	MEMORY ARRAY TESTER INFORMATION PROCESSING SYSTEM
7,289,351	AF01817US	United States	06/24/2005	10/30/2007	METHOD OF PROGRAMMING A RESISTIVE MEMORY DEVICE
8,183,622	AF01818US CIP	United States	07/27/2006	05/22/2012	SEMICONDUCTOR DEVICE AND FABRICATION METHOD THEREFOR
13/323,538	AF01818US DIV	United States	12/12/2011		SEMICONDUCTOR DEVICE AND FABRICATION METHOD THEREFOR
7,606,085	AF01819US CIP	United States	08/08/2006	10/20/2009	SEMICONDUCTOR DEVICE AND CONTROL METHOD OF THE SAME
7,898,879	AF01819US CON	United States	10/06/2009	03/01/2011	SEMICONDUCTOR DEVICE AND CONTROL METHOD OF THE SAME
7,957,205	AF01819US DIV	United States	10/06/2009	06/07/2011	SEMICONDUCTOR DEVICE AND CONTROL METHOD OF THE SAME
8,379,472	AF01819US DIV2	United States	06/07/2011	02/19/2013	SEMICONDUCTOR DEVICE AND CONTROL METHOD OF THE SAME
8,699,283	AF01819US DIV3	United States	02/19/2013	04/15/2014	SEMICONDUCTOR DEVICE AND CONTROL METHOD OF THE SAME
11/423,643	AF01823US	United States	06/12/2006		METHOD AND APPARATUS FOR VERSATILE HIGH VOLTAGE LEVEL DETECTION WITH RELATIVE NOISE IMMUNITY
7,345,916	AF01826US	United States	06/12/2006	03/18/2008	METHOD AND APPARATUS FOR HIGH VOLTAGE OPERATION FOR A HIGH PERFORMANCE SEMICONDUCTOR MEMORY DEVICE
7,613,044	AF01826US DIV	United States	12/05/2007	11/03/2009	METHOD AND APPARATUS FOR HIGH VOLTAGE OPERATION FOR A HIGH PERFORMANCE SEMICONDUCTOR MEMORY DEVICE
7,813,459	AF01828US	United States	10/03/2005	10/12/2010	DIGITAL DATA TRANSFER BETWEEN DIFFERENT CLOCK DOMAINS
7,683,473	AF01829US CIP	United States	09/28/2006	03/23/2010	SEMICONDUCTOR DEVICE, FABRICATION METHOD THEREFOR, AND FILM FABRICATION METHOD
7,538,383	AF01831US	United States	05/03/2006	05/26/2009	TWO-BIT MEMORY CELL HAVING CONDUCTIVE CHARGE STORAGE SEGMENTS AND METHOD FOR FABRICATING SAME
7,462,907	AF01832US	United States	11/07/2005	12/09/2008	METHOD OF INCREASING ERASE SPEED IN MEMORY ARRAYS
7,626,253	AF01833US CIP	United States	08/30/2006	12/01/2009	SEMICONDUCTOR DEVICE AND FABRICATION METHOD THEREFOR
7,859,096	AF01833US DIV	United States	11/23/2009	12/28/2010	SEMICONDUCTOR DEVICE
8,330,263	AF01833US DIV2	United States	12/10/2010	12/11/2012	SEMICONDUCTOR DEVICE
8,329,562	AF01833US DIV3	United States	12/10/2010	12/11/2012	METHODS OF MAKING A SEMICONDUCTOR DEVICE
13/711,443	AF01833US DIV4	United States	12/11/2012		SEMICONDUCTOR DEVICE AND FABRICATION METHOD THEREFOR
7,470,614	AF01834US	United States	02/15/2006	12/30/2008	METHODS FOR FABRICATING SEMICONDUCTOR DEVICES AND CONTACTS TO SEMICONDUCTOR DEVICES
8,064,264	AF01836US CIP	United States	10/11/2007	11/22/2011	ORNAND FLASH MEMORY AND METHOD FOR CONTROLLING THE SAME
7,902,590	AF01839US	United States	12/21/2007	03/08/2011	SEMICONDUCTOR DEVICE, METHOD OF CONTROLLING THE SAME, AND METHOD OF MANUFACTURING THE SAME
8,716,082	AF01839US DIV	United States	01/24/2011	05/06/2014	SEMICONDUCTOR DEVICE, METHOD OF CONTROLLING THE SAME, AND METHOD OF MANUFACTURING THE SAME
14/222,399	AF01839US DIV2	United States	03/21/2014		SEMICONDUCTOR DEVICE, METHOD OF CONTROLLING THE SAME, AND METHOD OF MANUFACTURING THE SAME
7,630,245	AF01840US CIP	United States	10/04/2006	12/08/2009	SEMICONDUCTOR DEVICE AND CONTROL METHOD THEREFOR
7,416,940	AF01842US	United States	05/03/2006	08/26/2008	METHODS FOR FABRICATING FLASH MEMEOERY DEVICES
7,910,980	AF01843US	United States	09/22/2008	03/22/2011	SONOS DEVICE WITH INSULATING STORAGE LAYER AND P-N JUNCTION ISOLATION
7,534,732	AF01844US	United States	02/17/2006	05/19/2009	SEMICONDOCTOR DEVICES WITH COPPER INTERCONNECTS AND COMPOSITE SILICON NITRIDE CAPPING LAYERS
11/582,442	AF01845US	United States	10/18/2006		CONFORMAL LINER FOR GAP-FILLING
7,355,904	AF01849US	United States	06/12/2006	04/08/2008	METHOD AND APPARATUS FOR DRAIN PUM OPERATION
11/423,649	AF01850US	United States	06/12/2006		METHOD AND APPARATUS FOR DRAIN PUMP POWER CONSERVATION
7,108,535	AF01852US	United States	07/12/2005	09/19/2006	INTEGRATED CIRCUIT TEST SOCKET
7,260,019	AF01853US	United States	10/31/2005	08/21/2007	MEMORY ARRAY
7,502,271	AF01854US CIP	United States	04/25/2007	03/10/2009	SEMICONDUCTOR DEVICE AND PROGRAMMING METHOD
7,639,543	AF01860US CIP	United States	11/20/2007	12/29/2009	NONVOLATILE MEMORY DEVICE
7,848,154	AF01860US DIV	United States	12/29/2009	12/07/2010	NONVOLATILE MEMORY DEVICE
7,468,909	AF01862US CIP	United States	12/11/2006	12/23/2008	SEMICONDUCTOR DEVICE AND METHOD OF CONTROLLING THE SAME
8,018,767	AF01862US DIV	United States	11/20/2008	09/13/2011	SEMICONDUCTOR DEVICE AND METHOD OF CONTROLLING THE SAME
8,325,523	AF01862US DIV2	United States	08/01/2011	12/04/2012	SEMICONDUCTOR DEVICE AND METHOD OF CONTROLLING THE SAME
8,787,089	AF01862US DIV3	United States	12/03/2012	07/22/2014	SEMICONDUCTOR DEVICE AND METHOD OF CONTROLLING THE SAME
11/359,122	AF01863	United States	02/21/2006		METHOD FOR REGULATING VOLTAGE AND CIRCUIT THEREFOR
11/551,535	AF01867US	United States	10/20/2006		METHOD FOR MANUFACTURING A MEMORY DEVICE
8,264,029	AF01869US CIP	United States	12/17/2007	09/11/2012	CONVEX SHAPED THIN-FILMTRANSISTOR DEVICE

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8,691,645	AF01869US DIV	United States	08/10/2012	04/08/2014	SEMICONDUCTOR DEVICE AND METHOD OF MANUFACTURING THE SAME
14/215,468	AF01869US DIV CON	United States	03/17/2014		METHOD OF MANUFACTURING CONVEX SHAPED THIN-FILM TRANSISTOR DEVICE HAVING ELONGATED CHANNEL OVER INSULATING LAYER
7,908,025	AF01870US CIP	United States	12/06/2006	03/15/2011	REAL-TIME EQUIPMENT CONTROL TO MAINTAIN YIELD
8,577,494	AF01870US CIP DIV	United States	02/03/2011	11/05/2013	SEMICONDUCTOR MANUFACTURING APPARATUS AND CONTROL SYSTEM AND CONTROL METHOD THEREFOR
8,531,019	AF01872US	United States	12/20/2007	09/10/2013	HEAT DISSIPATION METHODS AND STRUCTURES FOR SEMICONDUCTOR DEVICE
8,759,157	AF01872US DIV	United States	08/13/2013	06/24/2014	HEAT DISSIPATION METHODS AND STRUCTURES FOR SEMICONDUCTOR DEVICE
8,749,012	AF01873US	United States	12/20/2007	06/10/2014	METHODS AND STRUCTURES FOR DISCHARGING PLASMA FORMED DURING THE FABRICATION OF SEMICONDUCTOR DEVICE
8,819,326	AF01875US	United States	12/12/2006	08/26/2014	A HOST/CLIENT SYSTEM HAVING A SCALABLE SERIAL BUS INTERFACE
14/453,306	AF01875US DIV	United States	08/06/2014		HOST/CLIENT SYSTEM HAVING A SCALABLE SERIAL BUS INTERFACE
60/869,723	AF01876	United States	12/12/2006		REPROGRAMMABLE READ-ONLY-TYPE MEMORY SYSTEM
60/869,724	AF01877	United States	12/12/2006		DEDICATED REPROGRAMMABLE READ-ONLY-TYPE MEMORY SYSTEM
60/869,725	AF01878	United States	12/12/2006		COMPUTER SYSTEM FOR AUTOMATED PROGRAMMING OF MEMORY SYSTEMS
7,847,340	AF01879US	United States	12/21/2007	12/07/2010	SEMICONDUCTOR DEVICE AND METHOD FOR MANUFACTURING THE SAME
12/126,600	AF01881US	United States	05/23/2008		METHOD FOR BALL GRID ARRAY (BGA) SOLDER ATTACH FOR SURFACE MOUNT
7,940,563	AF01882US	United States	04/24/2008	05/10/2011	NONVOLATILE STORAGE DEVICE AND BIAS CONTROL METHOD THEREOF
7,378,836	AF01886US	United States	06/19/2006	05/27/2008	AUTOMATED LOADING/UNLOADING OF DEVICES FOR BURN-IN TESTING
13/538,646	AF01886US CON	United States	06/29/2012		AUTOMATED LOADING/UNLOADING OF DEVICES FOR BURN-IN TESTING
7,567,076	AF01886US DIV	United States	03/25/2008	07/28/2009	AUTOMATED LOADING/UNLOADING OF DEVICES FOR BURN-IN TESTING
8,228,082	AF01886US DIV2	United States	06/26/2009	07/24/2012	AUTOMATED LOADING/UNLOADING OF DEVICES FOR BURN-IN TESTING
8,105,098	AF01886US DIV3	United States	06/26/2009	01/31/2012	AUTOMATED LOADING/UNLOADING OF DEVICES FOR BURN-IN TESTING
60/766,316	AF01886US PROV	United States	01/10/2006		AUTOMATED LOADING/UNLOADING OF DEVICES FOR BURN-IN TESTING
7,892,984	AF01887US	United States	12/20/2007	02/22/2011	REDUCTION OF DEFECTS FORMED ON THE SURFACE OF A SILICON OXYNITRIDE FILM
8,158,534	AF01887US DIV	United States	02/22/2011	04/17/2012	REDUCTION OF DEFECTS FORMED ON THE SURFACE OF A SILICON OXYNITRIDE FILM
7,895,406	AF01889US CIP	United States	11/20/2007	02/22/2011	MEMORY DEVICE AND PASSWORD STORING METHOD THEREOF
12/005,870	AF01890US	United States	12/28/2007		PACKAGE-ON-PACKAGE SEMICONDUCTOR DEVICE
8,637,997	AF01891US CIP	United States	11/20/2007	01/28/2014	SEMICONDUCTOR DEVICE AND METHOD OF MANUFACTURING THE SAME
14/109,464	AF01891US DIV	United States	12/17/2013		SEMICONDUCTOR DEVICE AND METHOD OF MANUFACTURING THE SAME
7,619,934	AF01893US	United States	12/20/2006	11/17/2009	METHOD AND APPARTATUS FOR ADAPTIVE MEMORY CELL OVERERASE COMPENSATION
7,929,353	AF01893US DIV	United States	10/06/2009	04/19/2011	METHOD AND APPARTATUS FOR ADAPTIVE MEMORY CELL OVERERASE COMPENSATION
7,660,148	AF01894US	United States	04/01/2008	02/09/2010	NONVOLATILE MEMORY DEVICE AND METHOD TO CONTROL THE SAME
7,566,978	AF01895US CIP	United States	01/17/2007	07/28/2009	SEMICONDUCTOR DEVICE AND PROGRAMMING METHOD
8,772,953	AF01895US CON	United States	03/13/2009	07/08/2014	SEMICONDUCTOR DEVICE AND PROGRAMMING METHOD
7,834,470	AF01895US DIV	United States	06/24/2009	11/16/2010	SEMICONDUCTOR DEVICE AND PROGRAMMING METHOD
8,530,282	AF01895US DIV CON	United States	10/07/2010	09/10/2013	SEMICONDUCTOR DEVICE AND PROGRAMMING METHOD
8,900,923	AF01895US DIV CON2	United States	08/16/2013	12/02/2014	SEMICONDUCTOR DEVICE AND PROGRAMMING METHOD
7,643,371	AF01897US CIP	United States	11/20/2007	01/05/2010	SEMICONDUCTOR DEVICE AND METHOD OF CONTROLLING THE SAME
8,598,717	AF01898US	United States	12/21/2007	12/03/2013	SEMICONDUCTOR DEVICE AN METHOD FOR MANUFACTURING THE SAME
8,765,529	AF01898US DIV	United States	10/30/2013	07/01/2014	SEMICONDUCTOR DEVICE AND METHOD FOR MANUFACTURING THE SAME
7,644,226	AF01899US	United States	12/19/2006	01/05/2010	SYSTEM AND METHOD FOR MAINTAINING RAM COMMAND TIMING ACROSS PHASE-SHIFTED TIME DOMAINS
7,565,477	AF01900US	United States	12/22/2006	07/21/2009	SEMICONDUCTOR DEVICE AND METHOD FOR CONTROLLING THE SAME
7,574,576	AF01902US	United States	12/22/2006	08/11/2009	SEMICONDUCTOR DEVICE AND METHOD OF CONTROLLING THE SAME
12/026,421	AF01903US	United States	02/05/2008		SEMICONDUCTOR DEVICE AND METHOD FOR MANUFACTURING THE SAME
7,626,882	AF01905US	United States	12/20/2006	12/01/2009	FLASH MEMORY DEVICE WITH EXTERNAL HIGH VOLTAGE SUPPLY
8,357,965	AF01906US	United States	12/28/2007	01/22/2013	SEMICONDUCTOR DEVICE HAVING MULTIPLE STORAGE REGIONS
7,404,026	AF01907US	United States	04/10/2006	07/22/2008	MULTI MEDIA CARD WITH HIGH STORAGE CAPACITY
7,605,457	AF01908US CIP	United States	12/07/2006	10/20/2009	SEMICONDUCTOR DEVICE AND METHOD OF MANUFACTURING THE SAME

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8,030,179	AF01908US DIV	United States	09/09/2009	10/04/2011	SEMICONDUCTOR DIVICE AND METHOD OF MANUFACTURING THE SAME
13/252,714	AF01908US DIV2	United States	10/04/2011		SEMICONDUCTOR DIVICE AND METHOD OF MANUFACTURING THE SAME
7,355,886	AF01910US	United States	12/05/2006	04/08/2008	METHOD OF PROGRAMMING, ERASING AND READING MEMORY CELLS IN A RESISTIVE MEMORY ARRAY
7,916,523	AF01911US	United States	12/05/2006	03/29/2011	METHOD OF ERASING A RESISTIVE MEMORY DEVICE
8,077,495	AF01912US	United States	12/05/2006	12/13/2011	METHOD OF PROGRAMMING, ERASING AND REPAIRING A MEMORY DEVICE
8,482,959	AF01912US DIV	United States	12/13/2011	07/09/2013	METHOD OF PROGRAMMING, ERASING AND REPAIRING A MEMORY DEVICE
7,564,708	AF01916US	United States	12/05/2006	07/21/2009	METHOD OF PROGRAMMING MEMORY DEVICE
11/521,205	AF01923US	United States	09/14/2006		METHOD OF FORMING INSULATING LAYER IN A METAL-INSULATOR-METAL MEMORY DEVICE
8,791,018	AF01925US	United States	12/19/2006	07/29/2014	METHOD OF DEPOSITING COPPER USING PHYSICAL VAPOR DEPOSITION
14/313,751	AF01925US DIV	United States	06/24/2014		METHOD OF DEPOSITING COPPER USING PHYSICAL VAPOR DEPOSITION
14/315,003	AF01925US DIV2	United States	06/25/2014		METHOD OF DEPOSITING COPPER USING PHYSICAL VAPOR DEPOSITION
7,790,497	AF01926US	United States	12/20/2007	09/07/2010	METHOD TO PREVENT ALLOY FORMATION WHEN FORMING LAYERED METAL OXIDES BY METAL OXIDATION
6,542,403	AF01927US	United States	02/08/2001	04/01/2003	PIGGYBACK PROGRAMMING USING VOLTAGE CONTROL FOR MULTI-LEVEL CELL FLASH MEMORY DESIGNS
8,373,148	AF01929US	United States	04/26/2007	02/12/2013	MEMORY DEVICE WITH IMPROVED PERFORMANCE
8,093,680	AF01930US	United States	09/14/2006	01/10/2012	METAL-INSULATOR-METAL-INSULATOR-METAL (MIM) MEMORY DEVICE
8,717,803	AF01930US DIV	United States	12/09/2011	05/06/2014	METAL-INSULATOR-METAL-INSULATOR-METAL (MIM) MEMORY DEVICE
8,093,698	AF01935US	United States	12/05/2006	01/10/2012	GETTERING/STOP LAYER FOR PREVENTION OF REDUCTION OF INSULATING OXIDE IN A METAL-INSULATOR-METAL DEVICE
8,035,099	AF01936US	United States	02/27/2008	10/11/2011	DIODE AND RESISTIVE MEMORY DEVICE STRUCTURES
8,803,120	AF01936US DIV	United States	10/11/2011	08/12/2014	DIODE AND RESISTIVE MEMORY DEVICE STRUCTURES
8,089,113	AF01937US	United States	12/05/2006	01/03/2012	DAMASCENE METAL-INSULATOR-METAL (MIM) DEVICE
8,232,175	AF01938US	United States	09/14/2006	07/31/2012	DAMASCENE METAL-INSULATOR-METAL (MIM) DEVICE WITH IMPROVED SCALEABILITY
13/529,284	AF01938US DIV	United States	06/21/2012		DAMASCENE METAL-INSULATOR-METAL (MIM) DEVICE WITH IMPROVED SCALEABILITY
7,468,525	AF01941US	United States	12/05/2006	12/23/2008	TEST STRUCTURES FOR DEVELOPMENT OF METAL-INSULATOR-METAL (MIM) DEVICES
8,084,770	AF01941US DIV	United States	11/17/2008	12/27/2011	TEST STRUCTURES FOR DEVELOPMENT OF METAL-INSULATOR-METAL (MIM) DEVICES
7,894,243	AF01944US	United States	12/05/2006	02/22/2011	METHODS OF PROGRARMING AND ERASING RESISTIVE MEMORY DEVICES
7,495,951	AF01946US	United States	04/27/2006	02/24/2009	RESISTIVE MEMORY CELL ARRAY WITH COMMON PLATE
7,839,671	AF01946US DIV	United States	10/28/2008	11/23/2010	RESISTIVE MEMORY CELL ARRAY WITH COMMON PLATE
7,450,419	AF01949US CIP	United States	12/07/2006	11/11/2008	SEMICONDUCTOR DEVICE AND CONTROL METHOD THEREFOR
7,968,990	AF01953US CIP	United States	01/17/2007	06/28/2011	SEMICONDUCTOR DEVICE AND METHOD OF FABRICATING THE SAME
7,692,253	AF01954US	United States	04/27/2006	04/06/2010	MEMORY CELL ARRAY WITH LOW RESISTANCE COMMON SOURCE AND HIGH CURRENT DRIVABILITY
8,008,645	AF01954US DIV1	United States	11/13/2007	08/30/2011	MEMORY CELL ARRAY WITH LOW RESISTANCE COMMON SOURCE AND HIGH CURRENT DRIVABILITY
7,724,563	AF01954US DIV2	United States	11/13/2007	05/25/2010	MEMORY CELL ARRAY WITH LOW RESISTANCE COMMON SOURCE AND HIGH CURRENT DRIVABILITY
7,319,615	AF01955US	United States	08/02/2006	01/15/2008	RAMP GATE ERASE FOR DUAL BIT FLASH MEMORY
7,671,405	AF01957US	United States	12/26/2006	03/02/2010	DEEP BITLINE IMPLANT TO AVOID PROGRAM DISTURB
7,561,471	AF01961US	United States	03/16/2007	07/14/2009	CYCLING IMPROVEMENT USING HIGHER ERASE BIAS
60/877,192	AF01961US	United States	12/26/2006		CYCLING IMPROVEMENT USING HIGHER ERASE BIAS
7,888,218	AF01964US	United States	03/16/2007	02/15/2011	USING THICK SPACER FOR BITLINE IMPLANT THEN REMOVE
60/876,181	AF01964US	United States	12/20/2006		USE THICK SPACER FOR BL IMPLANT THEN REMOVE
11/634,777	AF01965US	United States	12/06/2006		BARRIER REGION FOR MEMORY DEVICES
7,713,875	AF01974US	United States	05/14/2007	05/11/2010	VARIABLE SALICIDE BLOCK FOR RESISTANCE EQUALIZATION IN AN ARRAY
60/875,905	AF01974US	United States	12/20/2006		VARIABLE SALICIDE BLOCK FOR RESISTANCE EQUALIZATION IN AN ARRAY
7,977,218	AF01975US	United States	12/26/2006	07/12/2011	THIN OXIDE DUMMY TILING AS CHARGE PROTECTION
7,553,727	AF01976US	United States	03/16/2007	06/30/2009	USING IMPLANTED POLY-I TO IMPROVE CHARGING PROTECTION IN DUAL-POLY PROCESS
60/876,180	AF01976US	United States	12/20/2006		USING IMPLANTED POLY-I TO IMPROVE CHARGING PROTECTION IN DUAL-POLY PROCESS
11/724,725	AF01978US	United States	03/16/2007		DIELECTRIC EXTENSION TO MITIGATE SHORT CHANNEL EFFECTS
60/877,300	AF01978US PROV	United States	12/27/2006		DIELECTRIC EXTENSION TO MITIGATE SHORT CHANNEL EFFECTS
7,696,094	AF01982US	United States	12/27/2006	04/13/2010	METHOD FOR IMPROVED PLANARIZATION IN SEMICONDUCTOR DEVICES
7,829,464	AF01988US	United States	10/20/2006	11/09/2010	PLANARIZATION METHOD USING OXIDE AND POLYSILICON CMP
7,972,962	AF01988US CON	United States	09/21/2010	07/05/2011	PLANARIZATION METHOD USING HYBRID OXIDE AND POLYSILICON CMP
8,415,734	AF01989US	United States	12/07/2006	04/09/2013	MEMORY DEVICE PROTECTION LAYER
13/858,229	AF01989US DIV	United States	04/08/2013		MEMORY DEVICE PROTECTION LAYER
7,670,959	AF01990US	United States	12/26/2006	03/02/2010	MEORY DEVICE ETCH METHODS
7,972,951	AF01990US CON	United States	01/15/2010	07/05/2011	MEORY DEVICE ETCH METHODS
11/461,998	AF02039US	United States	08/02/2006		MEMORY CELL SYSTEM WITH NITRIDE CHARGE ISOLATION

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11/462,009	AF02040US	United States	08/02/2006		MEMORY CELL SYSTEM WITH GRADIENT CHARGE ISOLATION
8,587,049	AF02041US	United States	07/17/2006	11/19/2013	MEMORY CELL SYSTEM WITH CHARGE TRAP
14/076,415	AF02041US DIV	United States	11/11/2013		MEMORY DEVICE WITH CHARGE TRAP
8,143,661	AF02042US	United States	10/10/2006	03/27/2012	MEMORY CELL SYSTEM WITH CHARGE TRAP
8,809,936	AF02044US	United States	07/31/2006	08/19/2014	MEMORY CELL SYSTEM WITH MULTIPLE NITRIDE LAYERS
11/958,646	AF02049US	United States	12/18/2007		INTEGRATED CIRCUIT SYSTEM WITH MEMORY SYSTEM
60/871,432	AF02049US PROV	United States	12/21/2006		INTEGRATED CIRCUIT SYSTEM WITH MEMORY SYSTEM
8,283,718	AF02052US	United States	12/16/2006	10/09/2012	INTEGRATED CIRCUIT SYSTEM WITH METAL AND SEMI-CONDUCTING GATE
8,815,727	AF02052US DIV	United States	10/04/2012	08/26/2014	INTEGRATED CIRCUIT WITH METAL AND SEMI-CONDUCTING GATE
11/611,860	AF02053US	United States	12/16/2006		INTEGRATED CIRCUIT SYSTEM WITH IMPLANT OXIDE
8,119,477	AF02054US	United States	08/31/2006	02/21/2012	MEMORY SYSTEM WITH PROTECTION LAYER
8,114,736	AF02055US	United States	12/17/2007	02/14/2012	INTEGRATED CIRCUIT SYSTEM WITH MEMORY SYSTEM
60/871,434	AF02055US PROV	United States	12/21/2006		INTEGRATED CIRCUIT SYSTEM WITH MEMORY SYSTEM
11/735,229	AF02056	United States	04/13/2007		INTEGRATED CIRCUIT SYSTEM WITH MEMORY SYSTEM
60/871,436	AF02056US	United States	12/21/2006		INTEGRATED CIRCUIT SYSTEM WITH MEMORY SYSTEM
8,785,268	AF02057US	United States	12/21/2006	07/22/2014	MEMORY SYSTEM WITH FIN FET TECHNOLOGY
11/694,089	AF02059	United States	03/30/2007		MEMORY SYSTEM WITH DEPLETION GATE
60/871,431	AF02059	United States	12/21/2006		MEMORY SYSTEM WITH DEPLETION GATE
11/614,839	AF02060	United States	12/21/2006		MEMORY SYSTEM WITH SELECT GATE ERASE
11/735,241	AF02062US	United States	04/13/2007		MEMORY SYSTEM WITH POLY METAL GATE
60/871,421	AF02062US PROV	United States	12/21/2006		MEMORY SYSTEM WITH POLY METAL GATE
7,443,712	AF02067US	United States	09/07/2006	10/28/2008	MEMORY ERASE MANAGEMENT SYSTEM
8,014,199	AF02071US	United States	05/22/2006	09/06/2011	MEMORY SYSTEM WITH SWITCH ELEMENT
7,781,806	AF02073US	United States	04/18/2008	08/24/2010	OPTICAL ERASE MEMORY STRUCTURE
8,895,405	AF02075US	United States	12/21/2007	11/25/2014	METHOD FOR MANUFACTURING A SEMICONDUCTOR DEVICE
14/184,191	AF02075US CON	United States	02/19/2014		METHOD FOR MANUFACTURING A SEMICONDUCTOR DEVICE
7,808,830	AF02076US	United States	02/05/2008	10/05/2010	SEMICONDUCTOR DEVICE AND METHOD FOR ADJUSTING REFERENCE LEVELS OF REFERENCE CELLS
8,031,527	AF02076US CON	United States	08/30/2010	10/04/2011	SEMICONDUCTOR DEVICE AND METHOD FOR ADJUSTING REFERENCE LEVELS OF REFERENCE CELLS
12/180,306	AF02077US	United States	07/25/2008		MIRRORBIT DEVICE HAVING THE CHARGE STORAGE REGION ON BOTH SIDES OF ONE WORD LINE
8,801,895	AF02078US	United States	02/05/2008	08/12/2014	SEMICONDUCTOR MANUFACTURING EQUIPMENT AND MANUFACTURING METHOD OF THE SAME
12/039,511	AF02080US	United States	02/28/2008		SEMICONDUCTOR DEVICE AND METHOD FOR MANUFACTURING THE SAME
8,202,790	AF02081US	United States	02/05/2008	06/19/2012	SEMICONDUCTOR DEVICE AND METHOD OF MANUFACTURING THE SAME
13/526,321	AF02081US DIV	United States	06/18/2012		SEMICONDUCTOR DEVICE AND METHOD OF MANUFACTURING THE SAME
8,143,664	AF02083US CIP	United States	02/27/2007	03/27/2012	MIRROR BIT MEMORY DEVICE HAVING BOTH PSG SPACER AND SILICIDE LAYER ON THE BIT LINE
8,536,638	AF02083US DIV	United States	12/14/2011	09/17/2013	METHOD OF MANUFACTURING A SEMICONDUCTOR DEVICE HAVING LOWER LEAKAGE CURRENT BETWEEN SEMICONDUCTOR SUBSTRATE AND BIT LINES
7,901,954	AF02084US	United States	09/29/2008	03/08/2011	METHOD FOR DETECTING A VOID
8,344,510	AF02084US DIV	United States	03/08/2011	01/01/2013	SEMICONDUCTOR DEVICE WITH VOID DETECTION MONITOR
7,825,448	AF02085US	United States	08/15/2008	11/02/2010	U-SHAPED SONOS MEMORY HAVING AN ELEVATED SOURCE AND DRAIN
7,633,824	AF02086US	United States	02/01/2008	12/15/2009	CHARGE PUMP TO SUPPLY VOLTAGE BANDS
8,815,652	AF02087US	United States	05/30/2008	08/26/2014	SEMICONDUCTOR DEVICE AND METHOD OF MANUFACTURING THE SAME AND SEMICONDUCTOR MANUFACTURING DEVICE
8,445,966	AF02088US	United States	12/20/2006	05/21/2013	METHOD AND APPARATUS FOR PROTECTION AGAINST PROCESS-INDUCED CHARGING
13/866,915	AF02088US DIV	United States	04/19/2013		METHOD AND APPARATUS FOR PROTECTION AGAINST PROCESS-INDUCED CHARGING
11/529,166	AF02089US	United States	09/28/2006		FLASH MEMORY CELL STRUCTURE FOR INCREASED PROGRAM SPEED AND ERASE SPEED
7,384,800	AF02090US	United States	12/05/2006	06/10/2008	METHOD OF FABRICATING METAL-INSULATOR-METAL (MIM) DEVICE WITH STABLE DATA RETENTION
7,902,056	AF02093US	United States	08/20/2008	03/08/2011	PLASMA TREATED METAL SILICIDE LAYER FORMATION
7,846,780	AF02096US	United States	02/01/2008	12/07/2010	FLIP-CHIP PACKAGE COVERED WITH TAPE
12/962,479	AF02096US DIV	United States	12/07/2010		FLIP-CHIP PACKAGE COVERED WITH TAPE
12/032,444	AF02097US	United States	02/15/2008		SEMICONDUCTOR DEVICE AND METHOD FOR MANUFACTURING THE SAME
8,230,154	AF02100US	United States	01/19/2007	07/24/2012	FULLY ASSOCIATIVE BANKING FOR MEMORY
8,239,637	AF02101US	United States	01/19/2007	08/07/2012	BYTE MASK COMMAND FOR MEMORIES
12/049,089	AF02102US	United States	03/14/2008		SEMICONDUCTOR DEVICE AND METHOD FOR MANUFACTURING THEREOF
14/628,939	AF02102US DIV	United States	02/23/2015		SEMICONDUCTOR DEVICE AND METHOD FOR MANUFACTURING THEREOF
8,076,206	AF02103US	United States	08/18/2008	12/13/2011	METHOD FOR MANUFACTURING SONOS FLASH MEMORY
13/275,989	AF02103US CIP	United States	10/18/2011		SONOS FLASH MEMORY DEVICE
8,110,412	AF02109US	United States	12/22/2006	02/07/2012	INTEGRATED CIRCUIT WAFER SYSTEM WITH CONTROL STRATEGY
7,432,156	AF02113US	United States	04/21/2006	10/07/2008	MEMORY DEVICE AND METHODS FOR ITS FABRICATION
7,564,091	AF02113US DIV	United States	08/27/2008	07/21/2009	MEMORY DEVICE AND METHODS FOR ITS FABRICATION
7,767,517	AF02117US	United States	12/20/2006	08/03/2010	A SEMICONDUCTOR MEMORY COMPRISING DUAL CHARGE STORAGE NODES AND METHODS FOR ITS FABRICATION
8,076,712	AF02117US DIV	United States	07/20/2010	12/13/2011	SEMICONDUCTOR MEMORY COMPRISING DUAL CHARGE STORAGE NODES AND METHODS FOR ITS FABRICATION
7,915,123	AF02118US	United States	04/20/2006	03/29/2011	DUAL CHARGE STORAGE NODE MEMORY DEVICE AND METHODS FOR FABRICATING SUCH DEVICE

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8,183,623	AF02118US DIV	United States	03/29/2011	05/22/2012	DUAL CHARGE STORAGE NODE MEMORY DEVICE AND METHODS FOR FABRICATING SUCH DEVICE
7,732,281	AF02119US	United States	04/24/2006	06/08/2010	METHODS FOR FABRICATING DUAL BIT FLASH MEMORY DEVICES
7,867,848	AF02119US DIV	United States	04/22/2010	01/11/2011	METHODS FOR FABRICATING DUAL BIT FLASH MEMORY DEVICES
7,666,739	AF02120US	United States	12/20/2006	02/23/2010	METHODS FOR FABRICATING A SPLIT CHARGE STORAGE NODE SEMICONDUCTOR MEMORY
7,368,347	AF02121US	United States	10/03/2006	05/06/2008	DUAL BIT FLASH MEMORY DEVICES AND METHODS FOR FABRICATING THE SAME
7,705,390	AF02121US DIV	United States	03/24/2008	04/27/2010	DUAL BIT FLASH MEMORY DEVICES AND METHODS FOR FABRICATING THE SAME
7,622,389	AF02122US	United States	04/25/2006	11/24/2009	SELECTIVE CONTACT FORMATION USING MASKING AND RESIST PATTERNING
7,687,360	AF02124US	United States	12/22/2006	03/30/2010	SEMICONDUCTOR MEMORY DEVICES AND METHODS FOR FABRICATING THE SAME
12/696,409	AF02124US DIV	United States	01/29/2010		SEMICONDUCTOR MEMORY DEVICES AND METHODS FOR FABRICATING THE SAME
7,785,965	AF02127US	United States	09/08/2006	08/31/2010	DUAL STORAGE NODE MEMORY DEVICES AND METHODS FOR FABRICATING THE SAME
11/615,425	AF02129US	United States	12/22/2006		FLASH MEMORY DEVICES AND METHODS FOR FABRICATING THE SAME
8,486,782	AF02131US	United States	12/22/2006	07/16/2013	FLASH MEMORY DEVICES AND METHODS FOR FABRICATING THE SAME
8,748,972	AF02131US DIV	United States	06/18/2013	06/10/2014	FLASH MEMORY DEVICES AND METHODS FOR FABRICATING THE SAME
7,635,627	AF02132US	United States	12/20/2006	12/22/2009	METHODS FOR FABRICATING A MEMORY DEVICE INCLUDING A DUAL BIT MEMORY CELL
7,696,038	AF02133US	United States	04/26/2006	04/13/2010	METHODS FOR FABRICATING FLASH MEMORY DEVICES
7,385,851	AF02134US	United States	12/22/2006	06/10/2008	REPETITIVE ERASE VERIFY TECHNIQUE FOR FLASH MEMORY DEVICES
7,463,525	AF02135US	United States	12/22/2006	12/09/2008	NEGATIVE WORDLINE BIAS FOR REDUCTION OF LEAKAGE CURRENT DURING FLASH MEMORY OPERATION
7,489,560	AF02136US	United States	04/05/2006	02/10/2009	REDUCTION OF LEAKAGE CURRENT AND PROGRAM DISTURBS IN FLASH MEMORY DEVICES
7,394,702	AF02137US	United States	04/05/2006	07/01/2008	METHODS FOR ERASING AND PROGRAMMING MEMORY DEVICES
11/399,158	AF02138US	United States	04/06/2006		METHODS FOR ERASING MEMORY DEVICES AND MULTI-LEVEL PROGRAMMING MEMORY DEVICE
7,778,088	AF02139US	United States	12/19/2006	08/17/2010	ERASING FLASH MEMORY USING ADAPTIVE DRAIN AND/OR GATE BIAS
8,144,522	AF02139US CON	United States	07/06/2010	03/27/2012	ERASING FLASH MEMORY USING ADAPTIVE DRAIN AND/OR GATE BIAS
7,382,650	AF02140US	United States	10/03/2006	06/03/2008	METHOD AND APPARATUS FOR SECTOR ERASE OPERATION IN A FLASH MEMORY ARRAY
7,948,052	AF02141US	United States	12/18/2006	05/24/2011	DUAL-BIT MEMORY DEVICE HAVING TRENCH ISOLATION MATERIAL DISPOSED NEAR BIT LINE CONTACT AREAS
7,622,373	AF02144US	United States	12/22/2006	11/24/2009	MEMORY DEVICE HAVING IMPLANTED OXIDE TO BLOCK ELECTRON DRIFT, AND METHOD OF MANUFACTURING THE SAME
8,076,715	AF02145US	United States	12/27/2006	12/13/2011	DUAL-BIT MEMORY DEVICE HAVING ISOLATION MATERIAL DISPOSED UNDERNEATH A BIT LINE SHARED BY ADJACENT DUAL-BIT MEMORY CELLS
7,630,253	AF02146US	United States	04/05/2006	12/08/2009	FLASH MEMORY PROGRAMMING AND VERIFICATION WIHT REDUCED LEAKAGE CURRENT
8,031,528	AF02146US DIV1	United States	09/11/2009	10/04/2011	FLASH MEMORY PROGRAMMING AND VERIFICATION WITH REDUCED LEAKAGE CURRENT
8,064,262	AF02148US	United States	09/18/2008	11/22/2011	SEMICONDUCTOR DEVICE AND METHOD USING STRESS INFORMATION
11/616,384	AF02149	United States	12/27/2006		METHOD TO ACHIEVE A LOW COST TRANSISTOR ISOLATION DIELECTRIC PROCESS MODULE WITH IMPROVED PROCESS CONTROL, PROCESS COST, AND YIELD POTENTIAL
8,225,172	AF02150US	United States	06/16/2008	07/17/2012	ERROR CORRECTION SCHEME FOR NON-VOLATILE MEMORY
8,438,460	AF02150US DIV	United States	06/22/2012	05/07/2013	ERROR CORRECTION SCHEME FOR NON-VOLATILE MEMORY
8,769,377	AF02150US DIV CON	United States	05/03/2013	07/01/2014	ERROR CORRECTION SCHEME FOR NON-VOLATILE MEMORY
11/829,135	AF02152US	United States	07/27/2007		FUEL CELL USING DEUTERIUM
8,486,756	AF02153US	United States	12/23/2008	07/16/2013	FLIP CHIP PACKAGE WITH SHELF AND METHOD OF MANUFACTURING THE SAME
8,796,864	AF02153US DIV	United States	06/14/2013	08/05/2014	FLIP CHIP PACKAGE WITH SHELF AND METHOD OF MANUFACTURING THEREOF
7,871,896	AF02155US	United States	06/05/2008	01/18/2011	PRECISION TRENCH FORMATION THROUGH OXIDE REGION FORMATION FOR A SEMICONDUCTOR DEVICE
8,354,326	AF02155US DIV	United States	12/06/2010	01/15/2013	PRECISION TRENCH FORMATION THROUGH OXIDE REGION FORMATION FOR A SEMICONDUCTOR DEVICE
8,004,901	AF02156US	United States	12/22/2008	08/23/2011	METHOD OF INHIBITING FRINGE CURRENT IN MIRROR BITMEMORY DEVICE
8,537,622	AF02156US CON	United States	08/23/2011	09/17/2013	SEMICONDUCTOR DEVICE AND METHOD FOR CONTROLLING
7,682,974	AF02159US	United States	05/30/2008	03/23/2010	METHOD FOR MANUFACTURING SEMICONDUCTOR DEVICE
11/804,170	AF02160US	United States	05/16/2007		SELF REFERENCE SENSING SYSTEM AND METHOD
12/133,689	AF02161US	United States	06/05/2008		ULTRAVIOLET BLOCKING STRUCTURE AND METHOD FOR SEMICONDUCTOR DEVICE
7,791,946	AF02162US	United States	07/01/2008	09/07/2010	SEMICONDUCTOR DEVICE AND METHOD FOR CONTROLLING A SEMICONDUCTOR DEVICE
7,863,175	AF02163US	United States	12/21/2006	01/04/2011	ZERO INTERFACE POLYSILICON TO POLYSILICON GATE FOR FLASH MEMORY
8,564,042	AF02164US	United States	02/05/2007	10/22/2013	DUAL STORAGE NODE MEMORY

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PATENT OR APPL NO.	SPANSON REFERENCE NO.	COUNTRY	FILING DATE	ISSUE DATE	TITLE
14/033,170	AF02164US DIV	United States	09/20/2013		DUAL STORAGE NODE MEMORY
60/765,227	AF02164US PROV	United States	02/03/2006		METHOD OF FABRICATING DUAL STORAGE NODES MEMORY USING SPACER MASKS
8,742,486	AF02165US	United States	02/05/2007	06/03/2014	FLASH MEMORY CELLS HAVING TRENCHED STORAGE ELEMENTS
14/254,237	AF02165US DIV	United States	04/16/2014		FLASH MEMORY CELLS HAVING TRENCHED STORAGE ELEMENTS
60/765,111	AF02165US PROV	United States	02/04/2006		APPARATUS AND METHOD FOR FABRICATING FLASH MEMORY CELLS HAVING TRENCHED STORAGE ELEMENTS
11/702,847	AF02166US	United States	02/05/2007		DUAL CHARGE STORAGE NODE WITH UNDERCUT GATE OXIDE FOR DEEP SUB-MICRON MEMORY CELL
60/765,351	AF02166US PROV	United States	02/04/2006		PROCESS FOR FABRICATING DUAL CHARGE STORAGE NODE WITH UNDERCUT GATE OXIDE FOR DEEP SUB-MICRON MEMORY CELL AND RESULTING STRUCTURE
11/639,666	AF02167US	United States	12/15/2006		MEMORY CELLS HAVING SPLIT CHARGE STORAGE NODES AND METHODS FOR FABRICATING MEMORY CELLS HAVING SPLIT CHARGE STORAGE NODES
60/764,847	AF02167US PROV	United States	02/04/2006		APPARATUS AND METHOD FOR FABRICATING FLASH MEMORY VCELLS HAVING TRENCHED STORAGE ELEMENTS AND A PUNCH THROUGH BARRIER REGION
7,970,129	AF02168US	United States	04/19/2007	06/28/2011	SELECTION OF A LOOKUP TABLE WITH DATA MASKED WITH A COMBINATION OF AN ADDITIVE AND MULTIPLICATIVE MASK
8,705,731	AF02168US CON	United States	05/19/2011	04/22/2014	SELECTION OF A LOOKUP TABLE WITH DATA MASKED WITH A COMBINATION OF AN ADDITIVE AND MULTIPLICATIVE MASK
8,422,668	AF02169US	United States	12/15/2006	04/16/2013	TABLE LOOKUP OPERATION ON MASKED DATA
8,855,298	AF02169US CON	United States	01/10/2013	10/07/2014	TABLE LOOKUP OPERATION ON MASKED DATA
7,781,320	AF02170US	United States	10/16/2008	08/24/2010	FABRICATING METHOD OF ETCHING THE INTERLAYER INSULATING FILM BY CONSIDERING THE EXTINCTION COEFFICIENT
8,440,557	AF02170US CON	United States	07/20/2010	05/14/2013	METHOD FOR FABRICATING A SEMICONDUCTOR DEVICE BY CONSIDERING THE EXTINCTION COEFFICIENT DURING ETCHING OF AN INTERLAYER INSULATING FILM
5,950,086	AF02173US	United States	06/18/1997	09/07/1999	MANUFACTURING METHOD OF SEMICONDUCTOR DEVICE
09/573,965	AF02175US	United States	05/19/2000		NONVOLATILE MEMORY ALLOW ENCRYPTED
6,368,916	AF02176US	United States	03/24/2000	04/09/2002	NONVOLATILE SEMICONDUCTOR MEMORY DEVICE
6,670,669	AF02177US	United States	02/28/2000	12/30/2003	MULTI-LEVEL NONVOLATILE MEMORY USING
6,324,099	AF02178US	United States	11/27/2000	11/27/2001	NONVOLATILE SEMICONDUCTOR MEMORY DEVICE
6,750,520	AF02180US CON	United States	05/30/2000	06/15/2004	SEMICONDUCTOR MEMORY DEVICE AND METHOD OF MANUFACTURE THEREOF
6,574,149	AF02181US CON	United States	03/15/2002	06/03/2003	SEMICONDUCTOR MEMORY DEVICE AND USING
6,614,686	AF02182US	United States	08/18/2000	09/02/2003	NONVOLATILE MEMORY CIRCUIT FOR RECORDING MULTIPLE BIT INFORMATION
10/194,317	AF02183US	United States	07/15/2002		NONVOLATILE MEMORY
7,057,229	AF02184US	United States	01/14/2003	06/06/2006	NONVOLATILE MEMORY DEVICE AND
7,462,529	AF02184US DIV	United States	03/23/2006	12/09/2008	NONVOLATILE MEMORY DEVICE AND
6,765,828	AF02185US CON	United States	08/03/2000	07/20/2004	NONVOLATILE SEMICONDUCTOR MEMORY DEVICE
7,102,928	AF02186US	United States	06/29/2000	09/05/2006	SEMICONDUCTOR MEMORY DEVICE
6,480,420	AF02187US	United States	03/28/2001	11/12/2002	SEMICONDUCTOR MEMORY DEVICE AND METHOD OF
6,788,580	AF02188US	United States	12/21/2000	09/07/2004	NONVOLATILE SEMICONDUCTOR MEMORY DEVICE
6,468,861	AF02189US	United States	12/18/2000	10/22/2002	METHOD FOR MANUFACTURING NON-VOLATILE SEMICONDUCTOR MEMORY AND NON-VOLATILE SEMICONDUCTOR MEMORY MANUFACTURED THEREBY
6,765,271	AF02189US DIV	United States	09/10/2002	07/20/2004	MANUFACTURING METHOD OF NONVOLATILE
6,496,414	AF02190US	United States	01/14/2002	12/17/2002	NONVOLATILE SEMICONDUCTOR MEMORY
6,492,677	AF02191US	United States	09/27/2001	12/10/2002	NON-VOLATILE SEMICONDUCTOR MEMORY DEVICE AND FABRICATION PROCESS THEREOF
6,642,586	AF02192US	United States	10/11/2001	11/04/2003	SEMICONDUCTOR MEMORY CAPABLE OF BEING DRIVEN AT LOW VOLTAGE AND ITS MANUFACTURE METHOD
6,927,133	AF02192US DIV	United States	08/28/2003	08/09/2005	SEMICONDUCTOR MEMORY CAPABLE OF BEING DRIVEN AT LOW VOLTAGE AND ITS MANUFACTURE METHOD
6,950,343	AF02193US	United States	05/25/2001	09/27/2005	NONVOLATILE SEMICONDUCTOR DEVICE
6,574,139	AF02194	United States	01/18/2002	06/03/2003	READ METHOD FOR DUAL BIT MEMORY CELL
60/300,916	AF02194	United States	06/20/2001		READ METHOD FOR DUAL BIT MEMORY CELL
09/922,786	AF02195	United States	08/07/2001		SEMICONDUCTOR DEVICE AND MANUFACTURING
7,084,037	AF02195US DIV	United States	11/12/2004	08/01/2006	SEMICONDUCTOR DEVICE AND MANUFACTURING
6,621,742	AF02196US	United States	04/29/2002	09/16/2003	SYSTEM FOR PROGRAMMING A FLASH MEMORY DEVICE
6,594,181	AF02197US	United States	05/10/2002	07/15/2003	READ METHOD FOR TWO BIT MEMORY CELL A
6,559,500	AF02198	United States	08/13/2001	05/06/2003	SEMICONDUCTOR MEMORY DEVICE AND DRIVING
6,735,127	AF02198US DIV	United States	06/04/2002	05/11/2004	SEMICONDUCTOR MEMORY DEVICE AND DRIVING
6,856,552	AF02199US	United States	07/30/2002	02/15/2005	SEMICONDUCTOR MEMORY DEVICE AND DRIVING
7,096,406	AF02200US	United States	03/15/2002	08/22/2006	MEMORY CONTROLLER FOR MULTI LEVEL
7,159,124	AF02201US	United States	11/19/2002	01/02/2007	NONVOLATILE SEMICONDUCTOR MEMORY WITH A FUNCTION FOR PREVENTING UNAUTHORIZED READING
6,990,623	AF02202US CIP	United States	05/16/2002	01/24/2006	METHOD FOR ERROR DETECTION/CORRECTION OF MULTILEVEL CELL MEMORY AND MULTILEVEL CELL MEMORY HAVING ERROR DETECTION/CORRECTION FUNCTION
10/199,071	AF02203US	United States	07/22/2002		NONVOLATILE SEMICONDUCTOR MEMORY AND
6,781,884	AF02204US	United States	03/11/2002	08/24/2004	SETTING SYSTEM FOR THRESHOLD VOLTAGE OF
6,970,007	AF02205US	United States	04/02/2003	11/29/2005	EQUIPMENT FOR LOW TEMPERATURE
6,813,189	AF02206US	United States	07/16/2002	11/02/2004	SYSTEM USING DYNAMIC REFERENCE BY
7,266,664	AF02207US	United States	02/20/2002	09/04/2007	MEMORY DEVICE FOR CONTROLLING NONVOLATILE AND VOLATILE MEMORIES
7,026,687	AF02208US	United States	03/14/2003	04/11/2006	NONVOLATILE SEMICONDUCTOR MEMORY AND METHOD OF MANUFACTURING THE SAME
11/480,553	AF02208US CON	United States	07/05/2006		NONVOLATILE SEMICONDUCTOR MEMORY AND METHOD OF MANUFACTURING THE SAME

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PATENT OR APPL NO.	SPANSION REFERENCE NO.	COUNTRY	FILING DATE	ISSUE DATE	TITLE
11/080,652	AF02208US DIV	United States	03/16/2005		NONVOLATILE SEMICONDUCTOR MEMORY AND METHOD OF MANUFACTURING THE SAME
6,639,849	AF02209US	United States	02/03/2003	10/28/2003	NONVOLATILE SEMICONDUCTOR DEVICE
10/435,373	AF02210	United States	05/12/2003		NONVOLATILE SEMICONDUCTOR MEMORY DEVICE
6,816,423	AF02211US	United States	04/29/2002	11/09/2004	CONTROL SYSTEM FOR PRECHARGE LEVEL ON
6,940,120	AF02212US	United States	05/15/2003	09/06/2005	NONVOLATILE SEMICONDUCTOR MEMORY DEVICE AND METHOD OF FABRICATING THEREOF
11/183,840	AF02212US DIV	United States	07/19/2005		NON-VOLATILE SEMICONDUCTOR MEMORY DEVICE AND METHOD OF FABRICATING THEREOF
6,969,663	AF02213US	United States	08/28/2003	11/29/2005	MEMORY INTEGRATED CIRCUIT DEVICE
6,914,824	AF02214US	United States	03/21/2003	07/05/2005	SEMICONDUCTOR MEMORY DEVICE
6,934,194	AF02215US	United States	08/01/2003	08/23/2005	NONVOLATILE MEMORY HAVING TRANSLAYER
6,912,160	AF02216US	United States	03/11/2003	06/28/2005	NONVOLATILE SEMICONDUCTOR MEMORY
7,082,077	AF02217US	United States	08/07/2003	07/25/2006	SEMICONDUCTOR MEMORY DEVICE THE
6,839,279	AF02218US	United States	06/06/2003	01/04/2005	NONVOLATILE SEMICONDUCTOR MEMORY
6,853,596	AF02219US	United States	09/10/2003	02/08/2005	SEMICONDUCTOR MEMORY FOR FUNCTION WELL
7,012,838	AF02220US	United States	08/01/2003	03/14/2006	NONVOLATILE SEMICONDUCTOR MEMORY
6,865,133	AF02221US	United States	09/02/2003	03/08/2005	MEMORY CIRCUIT HAVING
7,061,809	AF02222US	United States	08/05/2003	06/13/2006	NONVOLATILE SEMICONDUCTOR MEMORY
7,081,776	AF02223US	United States	02/24/2003	07/25/2006	VOLTAGE DETECTION CIRCUIT, SEMICONDUCTOR DEVICE, METHOD FOR CONTROLLING VOLTAGE DETECTION CIRCUIT
7,358,778	AF02223US DIV	United States	07/07/2006	04/15/2008	VOLTAGE DETECTION CIRCUIT, SEMICONDUCTOR DEVICE, METHOD FOR CONTROLLING VOLTAGE DETECTION CIRCUIT
7,106,651	AF02224US	United States	02/18/2003	09/12/2006	SEMICONDUCTOR MEMORY DEVICE AND DATA READ
6,987,297	AF02225US	United States	02/02/2004	01/17/2006	SEMICONDUCTOR MEMORY DEVICE AND MANUFACTURING METHOD THEREOF
7,132,332	AF02225US DIV	United States	10/12/2005	11/07/2006	SEMICONDUCTOR MEMORY DEVICE AND MANUFACTURING METHOD THEREOF
7,280,404	AF02226US CON	United States	02/27/2003	10/09/2007	NONVOLATILE SEMICONDUCTOR MEMORY
7,487,286	AF02229US CON	United States	02/28/2003	02/03/2009	FLASH MEMORY AND MEMORY CONTROL
11/030,129	AF02230US	United States	12/17/2003		SEMICONDUCTOR DEVICE AND TEST METHOD
6,995,423	AF02230US DIV	United States	06/28/2004	02/07/2006	MEMORY DEVICE HAVING A P+ GATE AND THIN BOTTOM OXIDE AND METHOD OF ERASING SAME
7,082,066	AF02231US	United States	04/30/2003	07/25/2006	FLASH MEMORY WITH SPARE SECTOR QUICKEN
11/110,700	AF02232US CON	United States	03/11/2003		MEMORY DEVICE
7,212,443	AF02233US	United States	12/17/2003	05/01/2007	NONVOLATILE MEMORY AND METHOD AND WRITE METHOD OF THE SAME
6,965,530	AF02234US	United States	11/19/2003	11/15/2005	SEMICONDUCTOR MEMORY DEVICE AND CONTROL
7,185,140	AF02235US	United States	12/05/2003	02/27/2007	METHOD FOR STORING IN NONVOLATILE MEMORY AND STORAGE UNIT
6,970,381	AF02236US	United States	12/30/2003	11/29/2005	SEMICONDUCTOR MEMORY DEVICE
6,975,543	AF02237US	United States	04/28/2003	12/13/2005	NONVOLATILE SEMICONDUCTOR MEMORY DEVICE
7,280,413	AF02238US	United States	04/24/2003	10/09/2007	NONVOLATILE SEMICONDUCTOR MEMORY
7,180,785	AF02239US	United States	04/17/2003	02/20/2007	NONVOLATILE SEMICONDUCTOR MEMORY DEVICE WITH A PLURALITY OF SECTORS
6,804,151	AF02240US	United States	05/14/2003	10/12/2004	NONVOLATILE SEMICONDUCTOR MEMORY DEVICE
7,190,630	AF02241US CON	United States	06/06/2003	03/13/2007	SEMICONDUCTOR MEMORY DEVICE AND SELECT
7,605,616	AF02243US CIP	United States	10/16/2007	10/20/2009	VOLTAGE DETECTOR CIRCUIT
7,532,518	AF02246US	United States	06/25/2007	05/12/2009	COMPENSATION METHOD TO ACHIEVE UNIFORM PROGRAMMING SPEED OF FLASH MEMORY DEVICES
8,560,756	AF02247US	United States	10/17/2007	10/15/2013	HYBRID FLASH MEMORY DEVICE
8,367,537	AF02248US	United States	05/10/2007	02/05/2013	FLASH MEMORY CELL WITH A FLAIR GATE
13/725,654	AF02248US DIV	United States	12/21/2012		FLASH MEMORY CELL WITH A FLAIR GATE
11/652,785	AF02249US	United States	01/11/2007		A SHALLOW BIPOLAR JUNCTION TRANSISTOR
7,691,737	AF02250US	United States	12/21/2006	04/06/2010	COPPER PROCESS METHODOLOGY
7,745,236	AF02251US	United States	12/21/2006	06/29/2010	A FLOATING GATE PROCESS METHODOLOGY
12/110,181	AF02253US	United States	04/25/2008		STRUCTURES AND METHODS FOR STACK TYPE SEMICONDUCTOR PACKAGING
7,808,808	AF02254US	United States	07/21/2008	10/05/2010	NONVOLATILE MEMORY DEVICE HAVING A PLURALITY OF MEMORY BLOCKS
8,094,478	AF02254US CON	United States	09/09/2010	01/10/2012	NONVOLATILE MEMORY DEVICE HAVING A PLURALITY OF MEMORY BLOCKS
8,638,931	AF02255US	United States	10/30/2007	01/28/2014	SIGNAL DESCRAMBLING DETECTOR
7,956,424	AF02256US	United States	08/15/2008	06/07/2011	MIRROR BIT MEMORY DEVICE APPLYING A GATE VOLTAGE ALTERNATELY TO GATE
7,820,547	AF02257US	United States	07/24/2008	10/26/2010	FLASH MEMORY DEVICE WITH WORD LINES OF UNIFORM WIDTH AND METHOD FOR MANUFACTURING THEREOF
8,304,914	AF02257US CON	United States	10/26/2010	11/06/2012	FLASH MEMORY DEVICE WITH WORD LINES OF UNIFORM WIDTH AND METHOD FOR MANUFACTURING THEREOF
13/657,047	AF02257US CON2	United States	10/22/2012		FLASH MEMORY DEVICE WITH WORD LINES OF UNIFORM WIDTH AND METHOD FOR MANUFACTURING THEREOF
7,934,051	AF02259US	United States	02/01/2008	04/26/2011	PROGRAM AND ERASE DISABLING CONTROL OF WPCAM BY DOUBLE CONTROLS
8,219,743	AF02259US CON	United States	03/21/2011	07/10/2012	PROGRAM AND ERASE DISABLING CONTROL OF WPCAM BY DOUBLE CONTROLS
7,859,914	AF02261US	United States	03/28/2008	12/28/2010	NON-VOLATILE MEMORY DEVICE, NON-VOLATILE MEMORY SYSTEM AND CONTROL METHOD FOR THE NON-VOLATILE MEMORY DEVICE
8,003,468	AF02262US	United States	08/20/2008	08/23/2011	SEPARATION METHODS FOR SEMICONDUCTOR CHARGE OF ACCUMULATION LAYERS AND STRUCTURES THEREOF
8,318,566	AF02262US DIV	United States	06/08/2011	11/27/2012	METHOD TO SEPERATE STORAGE REGIONS IN THE MIRROR BIT DEVICE

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8,642,441	AF02264US	United States	12/15/2006	02/04/2014	SELF-ALIGNED STI WITH SINGLE POLY FOR MANUFACTURING A FLASH MEMORY DEVICE
14/167,845	AF02264US DIV	United States	01/29/2014		SYSTEM AND METHOD FOR MANUFACTURING SELF-ALIGNED STI WITH SINGLE POLY
12/166,290	AF02266US	United States	07/01/2008		METHOD AND APPRATUS FOR MANUFACTURING SEMICONDUCTOR DEVICE
60/882,707	AF02267	United States	12/29/2006		MULTI-LEVEL BIT OPERATION IN DUAL BIT CELLS USING A SUPPLEMENTAL PROGRAMMING LEVEL
7,652,919	AF02267US	United States	06/29/2007	01/26/2010	MULTI-LEVEL BIT OPERATION IN DUAL ELEMENT CELLS USING A SUPPLEMENTAL PROGRAMMING LEVEL
7,561,465	AF02269US	United States	03/16/2007	07/14/2009	METHODS AND SYSTEMS FOR MEMORY DEVICES
60/877,478	AF02269US	United States	12/28/2006		METHODS AND SYSTEMS FOR MEMORY DEVICES
7,989,328	AF02271US	United States	12/19/2006	08/02/2011	RESISTIVE MEMORY ARRAY USING P-I-N DIODE SELECT DEVICE AND METHODS OF FABRICATION THEREOF
13/165,652	AF02271US DIV	United States	06/21/2011		RESISTIVE MEMORY ARRAY USING P-I-N DIODE SELECT DEVICE AND METHODS OF FABRICATION THEREOF
7,646,624	AF02272US	United States	10/31/2006	01/12/2010	METHOD OF SELECTING OPERATING CHARACTERISTICS OF A RESISTIVE MEMORY DEVICE
7,932,125	AF02274US	United States	07/31/2008	04/26/2011	SELF-ALIGNED CHARGE STORAGE REGION FORMATION FOR SEMICONDUCTOR DEVICE
8,319,273	AF02274US DIV	United States	04/26/2011	11/27/2012	SELF-ALIGNED CHARGE STORAGE REGION FORMATION FOR SEMICONDUCTOR DEVICE
8,946,020	AF02279US	United States	09/06/2007	02/03/2015	METHOD OF FORMING CONTROLLABLY CONDUCTIVE OXIDE
14/612,083	AF02279US DIV	United States	02/02/2015		METHOD OF FORMING CONTROLLABLY CONDUCTIVE OXIDE
8,156,272	AF02282US	United States	09/01/2006	04/10/2012	MULTIPLE COMUNICATION CHANNELS ON MMC OR SD CMD LINE
8,386,681	AF02282US CON	United States	03/02/2012	02/26/2013	MULTIPLE COMUNICATION CHANNELS ON MMC OR SD CMD LINE
11/641,506	AF02283US	United States	12/19/2006		STRESS MANAGEMENT IN BGA PACKAGING
7,724,075	AF02284US	United States	12/06/2006	05/25/2010	A NEW METHOD TO PROVIDE A HIGHER REFERENCE VOLTAGE AT A LOWER POWER SUPPLY IN FLASH MEMORY DEVICES
7,460,415	AF02285US	United States	12/15/2006	12/02/2008	DRAIN VOLTAGE REGULATOR
7,746,706	AF02286US	United States	12/15/2006	06/29/2010	METHODS AND SYSTEMS FOR MEMORY DEVICES
7,964,446	AF02287US	United States	03/07/2008	06/21/2011	SEMICONDUCTOR DEVICE AND METHOD OF MANUFACTURING THE SAME
8,466,552	AF02287US DIV	United States	06/21/2011	06/18/2013	SEMICONDUCTOR DEVICE AND METHOD OF MANUFACTURING THE SAME
8,492,890	AF02288US	United States	03/17/2008	07/23/2013	SEMICONDUCTOR DEVICE AND METHOD FOR MANUFACTURING THEREOF
8,586,412	AF02288US DIV	United States	06/19/2013	11/19/2013	SEMICONDUCTOR DEVICE AND METHOD FOR MANUFACTURING THEREOF
7,816,788	AF02291US	United States	05/16/2008	10/19/2010	STRUCTURE, METHOD AND SYSTEM FOR ASSESSING BONDING OF ELECTRODES IN FCB PACKAGING
8,274,158	AF02291US DIV	United States	09/08/2010	09/25/2012	STRUCTURE, METHOD AND SYSTEM FOR ASSESSING BONDING OF ELECTRODES IN FCB PACKAGING
7,932,616	AF02293US	United States	04/04/2008	04/26/2011	SEMICONDUCTOR DEVICE SEALED IN A RESIN SECTION AND METHOD FOR MANUFACTURING THE SAME
8,900,993	AF02293US DIV	United States	03/21/2011	12/02/2014	SEMICONDUCTOR DEVICE SEALED IN RESIN SECTION AND METHOD FOR MANUFACTURING THE SAME
14/521,181	AF02293US DIV2	United States	10/22/2014		SEMICONDUCTOR DEVICE AND METHOD FOR MANUFACTURING THE SAME
11/899,575	AF02299US	United States	09/06/2007		TA-LINED TUNGSTEM PLUGS FOR TRANSISTOR-LOCAL HYDROGEN GATHERING
7,558,907	AF02301US	United States	10/13/2006	07/07/2009	VIRTUAL MEMORY CARD CONTROLLER
7,901,955	AF02302US	United States	06/25/2007	03/08/2011	METHOD OF CONSTRUCTING A STACKED-DIE SEMICONDUCTOR STRUCTURE
11/650,907	AF02305	United States	01/08/2007		STRUCTURE AND METHOD FOR WIRE BOND INTEGRITY CHECK ON BGA SUBSTRATES USING INDIRECT ELECTRICAL INTERCONNECTIVITY PATHWAY BETWEEN WIRE BONDS AND GROUND
7,948,820	AF02306US	United States	12/05/2007	05/24/2011	CIRCUIT PRE-CHARGE TO SENSE A MEMORY LINE
7,505,298	AF02307US	United States	04/30/2007	03/17/2009	TRANSFER OF NON-ASSOCIATED INFORMATION ON FLASH MEMORY DEVICES
7,729,169	AF02312US	United States	05/23/2008	06/01/2010	MULTIPLE PROGRAMMING OF SPARE MEMORY REGION FOR NONVOLATILE MEMORY
8,269,343	AF02313US	United States	09/19/2008	09/18/2012	SEMICONDUCTOR DEVICE INCLUDING A PRESSURE- CONTACT SECTION
8,421,241	AF02314US	United States	10/27/2008	04/16/2013	SEMICONDUCTOR DEVICE AND MANUFACTURING METHOD
13/725,637	AF02314US CON	United States	12/21/2012		SEMICONDUCTOR DEVICE AND METHOD FOR MANUFACTURING THEREOF
7,706,186	AF02315US CIP	United States	11/05/2007	04/27/2010	CONTROLLING A SEMICONDUCTOR DEVICE
60/856,545	AF02315US PROV	United States	11/03/2006		ERASURE SUSPENSION FEATURE
7,892,892	AF02316US	United States	06/30/2008	02/22/2011	SEMICONDUCTOR DEVICE AND METHOD FOR MANUFACTURING THEREOF
8,446,015	AF02316US DIV	United States	01/27/2011	05/21/2013	SEMICONDUCTOR DEVICE AND METHOD FOR MANUFACTURING THEREOF
7,743,203	AF02317US	United States	05/11/2007	06/22/2010	MANAGING MEMORY PROGRAM AND ERASE CYCLES IN THE TIME DOMAIN
7,939,925	AF02320US	United States	10/24/2008	05/10/2011	SEMICONDUCTOR DEVICE AND MANUFACTURING METHOD THEREOF
7,803,680	AF02322US	United States	01/12/2007	09/28/2010	METHODS FOR FORMING A MEMORY CELL HAVING A TOP OXIDE SPACER
7,906,395	AF02322US CON	United States	09/27/2010	03/15/2011	A SELF-ALIGNED PATTERNING METHOD BY USING NON-CONFORMAL FILM AND ETCH BACK FOR FLASH MEMORY AND OTHER SEMICONDUCTOR APPLICATIONS

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PATENT OR APPL NO.	SPANION REFERENCE NO.	COUNTRY	FILING DATE	ISSUE DATE	TITLE
8,367,466	AF02326US	United States	09/12/2008	02/05/2013	MANUFACTURING STACKED SEMICONDUCTOR DEVICE
8,190,919	AF02329US	United States	12/20/2006	05/29/2012	MULTIPLE STAKEHOLDER SECURE MEMORY PARTITIONING AND ACCESS CONTROL
60/864,682	AF02329US PROV	United States	11/07/2006		MULTIPLE STAKEHOLDER SECURE MEMORY PARTITIONING AND ACCESS CONTROL
8,117,445	AF02330US	United States	12/20/2006	02/14/2012	NEAR FIELD COMMUNICATION, SECURITY AND NON-VOLATILE MEMORY INTEGRATED SUB-SYSTEM FOR EMBEDDED PORTABLE APPLICATIONS
8,261,091	AF02331US	United States	12/21/2006	09/04/2012	SOLID-STATE MEMORY-BASED GENERATION AND HANDLING OF SECURITY AUTHENTICATION TOKENS
8,190,908	AF02332US	United States	12/20/2006	05/29/2012	SECURE DATA VERIFICATION VIA BIOMETRIC INPUT
8,190,885	AF02333US	United States	12/21/2006	05/29/2012	NON-VOLATILE MEMORY SUB-SYSTEM INTEGRATED WITH SECURITY FOR STORING NEAR FIELD TRANSACTIONS
7,836,269	AF02334US	United States	12/29/2006	11/16/2010	SYSTEMS AND METHODS FOR ACCESS VIOLATION MANAGEMENT OF SECURED MEMORY
8,356,361	AF02335US	United States	12/21/2006	01/15/2013	SECURE CO-PROCESSING MEMORY CONTROLLER INTEGRATED INTO AN EMBEDDED MEMORY SUBSYSTEM
60/864,730	AF02335US PROV	United States	11/07/2006		SECURE CO-PROCESSING MEMORY CONTROLLER INTEGRATED INTO AN EMBEDDED MEMORY SUBSYSTEM
11/612,874	AF02336US	United States	12/19/2006		PORTABLE DIGITAL RIGHTS MANAGEMENT (DRM)
7,512,743	AF02337US	United States	11/07/2006	03/31/2009	USING SHARED MEMORY WITH AN EXECUTE-IN-PLACE PROCESSOR AND A CO-PROCESSOR
7,882,365	AF02338US	United States	12/22/2006	02/01/2011	SYSTEMS AND METHODS FOR DISTINGUISHING BETWEEN ACTUAL DATA AND RELEASED/BLANK MEMORY WITH REGARD TO ENCRYPTED DATA
11/616,385	AF02339US	United States	12/27/2006		PERSONAL DIGITAL RIGHTS MANAGEMENT AGENT-SERVER
8,039,943	AF02340US	United States	09/26/2008	10/18/2011	SEMICONDUCTOR DEVICE AND MANUFACTURING METHOD THEREFOR
8,481,366	AF02340US DIV	United States	04/26/2011	07/09/2013	SEMICONDUCTOR DEVICE AND MANUFACTURING METHOD THEREFOR
7,759,171	AF02403US	United States	08/28/2007	07/20/2010	METHOD AND STRUCTURE OF MINIMIZING MOLD BLEEDING ON A SUBSTRATE SURFACE OF SEMICONDUCTOR PACKAGE
8,546,936	AF02403US DIV	United States	06/18/2010	10/01/2013	METHOD AND STRUCTURE OF MINIMIZING MOLD BLEEDING ON A SUBSTRATE SURFACE OF SEMICONDUCTOR PACKAGE
7,554,204	AF02404US	United States	06/19/2007	06/30/2009	DIE OFFSET DIE TO DIE BONDING
7,750,481	AF02404US DIV1	United States	12/09/2008	07/06/2010	DIE OFFSET DIE TO DIE BONDING
7,674,653	AF02404US DIV2	United States	12/09/2008	03/09/2010	DIE OFFSET DIE TO DIE BONDING
11/842,655	AF02405US	United States	08/21/2007		DIE STACKING IN MULTI-DIE STACKS USING DIE SUPPORT MECHANISMS
8,708,710	AF02406US	United States	07/30/2007	04/29/2014	CONTACT CONFIGURATION FOR UNDERTAKING TESTS ON CIRCUIT BOARD
14/222,446	AF02406US CON	United States	03/21/2014		CONTACT CONFIGURATION FOR UNDERTAKING TESTS ON CIRCUIT BOARD
7,633,815	AF02417US	United States	12/05/2007	12/15/2009	FLEXIBLE WORD LINE BOOSTING ACROSS VCC SUPPLY
7,760,558	AF02418US	United States	01/15/2008	07/20/2010	IMPROVED VOLTAGE BOOSTER BY ISOLATION AND DELAYED SEQUENTIAL DISCHARGE
7,915,907	AF02419US	United States	06/25/2007	03/29/2011	FAULTY DANGLING METAL ROUTE DETECTION
7,768,856	AF02420US	United States	10/30/2007	08/03/2010	CONTROL OF TEMPERATURE SLOPE FOR BAND GAP REFERENCE VOLTAGE IN A MEMORY DEVICE
7,558,123	AF02421US	United States	08/13/2007	07/07/2009	EFFICIENT AND SYSTEMATIC MEASUREMENT FLOW ON DRAIN VOLTAGE FOR DIFFERENT TRIMMING IN FLASH SILICON CHARACTERIZATION
8,219,738	AF02422US	United States	12/03/2007	07/10/2012	DIRECT INTERCONNECTION BETWEEN PROCESSOR AND MEMORY COMPONENT
7,558,116	AF02423US	United States	08/13/2007	07/07/2009	REGULATION OF BOOST-STRAP NODE RAMP RATE USING CAPACITANCE TO COUNTER PARASITIC ELEMENTS IN CHANNEL
7,755,922	AF02435US	United States	03/16/2007	07/13/2010	NON-VOLATILE RESISTIVE SWITCHING FOR ADVANCED MEMORY APPLICATIONS
60/877,887	AF02435US	United States	12/29/2006		NON-VOLATILE RESISTIVE SWITCHING FOR ADVANCED MEMORY APPLICATIONS
60/877,876	AF02436	United States	12/29/2006		RESISTIVE- SWITCHING MEMORY CELL ARCHITECTURE
8,085,615	AF02436US	United States	03/16/2007	12/27/2011	MULTI-STATE RESISTANCE CHANGING MEMORY WITH A WORD LINE DRIVER FOR APPLYING A SAME PROGRAM VOLTAGE TO THE WORD LINE
13/289,553	AF02436US DIV	United States	11/04/2011		RESISTIVE CHANGING MEMORY CELL ARCHITECTURE HAVING A SELECT TRANSISTOR COUPLED TO A RESISTANCE CHANGING MEMORY ELEMENT (as amended)
7,672,161	AF02437US	United States	04/30/2007	03/02/2010	ADAPTIVE DETECTION OF THRESHOLD LEVELS IN MEMORY
8,301,963	AF02438US	United States	10/23/2007	10/30/2012	LOW-DENSITY PARITY-CHECK CODE BASED ERROR CORRECTION FOR MEMORY DEVICE
7,566,628	AF02447US	United States	06/15/2007	07/28/2009	STRUCTURE AND PROCESS FOR A RESISTIVE MEMORY CELL WITH SEPARATELY PATTERNED ELECTRODES
7,626,869	AF02450US	United States	05/07/2007	12/01/2009	MULTI-PHASE WORDLINE ERASING FOR FLASH MEMORY
7,776,696	AF02451US	United States	04/30/2007	08/17/2010	METHOD TO OBTAIN MULTIPLE GATE THICKNESSES USING IN-SITU GATE ETCH MASK APPROACH
7,682,905	AF02453US	United States	05/09/2007	03/23/2010	SELF ALIGNED NARROW STORAGE ELEMENTS FOR ADVANCED MEMORY DEVICE
8,476,695	AF02453US DIV	United States	02/01/2010	07/02/2013	SELF ALIGNED NARROW STORAGE ELEMENTS FOR ADVANCED MEMORY DEVICE
7,846,829	AF02455US	United States	08/21/2008	12/07/2010	STACKED SOLDER BALLS FOR INTEGRATED CIRCUIT DEVICE PACKAGING AND ASSEMBLY
8,946,663	AF02460JP DIV	United States	05/15/2012	02/03/2015	SOFT ERROR RESISTANT CIRCUITRY
8,552,523	AF02460US	United States	08/09/2011	10/08/2013	SEMICONDUCTOR DEVICE AND METHOD FOR MANUFACTURING

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PATENT OR APPL NO.	SPANSON REFERENCE NO.	COUNTRY	FILING DATE	ISSUE DATE	TITLE
7,902,592	AF02463US	United States	12/17/2008	03/08/2011	SEMICONDUCTOR DEVICE AND METHOD FOR MANUFACTURING
7,821,842	AF02465US	United States	07/21/2008	10/26/2010	SYNCHRONOUS MEMORY DEVICES AND CONTROL METHODS FOR PERFORMING BURST WRITE OPERATIONS
7,889,573	AF02466US	United States	12/22/2008	02/15/2011	TIME REDUCTION OF ADDRESS SETUP/HOLD TIME FOR SEMICONDUCTOR MEMORY
8,031,537	AF02466US DIV	United States	01/10/2011	10/04/2011	TIME REDUCTION OF ADDRESS SETUP/HOLD TIME FOR SEMICONDUCTOR MEMORY
7,808,827	AF02470US	United States	11/06/2007	10/05/2010	CONTROLLED BIT LINE DISCHARGE FOR CHANNEL ERASES IN NONVOLATILE MEMORY
7,679,972	AF02471US	United States	11/26/2007	03/16/2010	HIGH RELIABILITY AND LOW POWER STATIC RANDOM ACCESS MEMORY
11/687,479	AF02472	United States	03/16/2007		MEMORY STORAGE VIA AN INTERNAL COMPRESSION ALGORITHM
7,852,669	AF02477US	United States	03/16/2007	12/14/2010	DIVISION-BASED SENSING AND PARTITIONING OF ELECTRONIC MEMORY
8,116,151	AF02479US	United States	08/11/2008	02/14/2012	MULTI-LEVEL PROGRAM ALGORITHM EMPHASIZE DISTURB CONDITION
7,802,114	AF02480US	United States	03/16/2007	09/21/2010	STATE CHANGE SENSING
7,835,189	AF02481US	United States	03/16/2007	11/16/2010	HIGH ACCURACY ADAPTIVE PROGRAMMING
7,746,698	AF02495US	United States	12/13/2007	06/29/2010	PROGRAMMING IN MEMORY DEVICES USING SOURCE BITLINE VOLTAGE BIAS
7,692,962	AF02496US	United States	12/18/2007	04/06/2010	REDUCED STATE QUADBIT
7,659,569	AF02498US	United States	12/10/2007	02/09/2010	WORK FUNCTION ENGINEERING FOR FN ERASE OF A MEMORY DEVICE WITH MULTIPLE CHARGE STORAGE ELEMENTS IN AN UNDERCUT REGION
7,656,705	AF02499US	United States	10/17/2007	02/02/2010	FAST SINGLE PHASE PROGRAM ALGORITHM FOR QUADBIT
7,679,967	AF02503US	United States	12/21/2007	03/16/2010	CONTROLLING AC DISTURBANCE WHILE PROGRAMMING
8,559,255	AF02503US CON3	United States	08/08/2012	10/15/2013	CONTROLLING AC DISTURBANCE WHILE PROGRAMMING
7,986,562	AF02503US DIV	United States	12/30/2009	07/26/2011	CONTROLLING AC DISTURBANCE WHILE PROGRAMMING
8,264,898	AF02503US DIV2	United States	06/09/2011	09/11/2012	CONTROLLING AC DISTURBANCE WHILE PROGRAMMING
7,746,705	AF02504US	United States	12/10/2007	06/29/2010	SELECTIVE APPLICATION OF WORD LINE BIAS TO MINIMIZE FRINGE EFFECTS IN ELECTROMAGNETIC FIELDS DURING ERASE OF NONVOLATILE MEMORY
7,952,938	AF02504US DIV	United States	05/04/2010	05/31/2011	SELECTIVE APPLICATION OF WORD LINE BIAS TO MINIMIZE FRINGE EFFECTS IN ELECTROMAGNETIC FIELDS DURING ERASE OF NONVOLATILE MEMORY
7,981,745	AF02517US	United States	08/30/2007	07/19/2011	SACRIFICIAL NITRIDE AND GATE REPLACEMENT
8,329,598	AF02517US DIV	United States	06/06/2011	12/11/2012	SACRIFICIAL NITRIDE AND GATE REPLACEMENT
8,455,268	AF02518US	United States	08/31/2007	06/04/2013	GATE REPLACEMENT WITH TOP OXIDE REGROWTH FOR THE TOP OXIDE IMPROVEMENT
7,807,580	AF02520US	United States	04/30/2007	10/05/2010	TRIPLE POLY-SI REPLACEMENT SCHEME FOR MEMORY DEVICES
7,776,688	AF02523US	United States	08/08/2007	08/17/2010	USE OF A POLYMER SPACER AND SI TRENCH IN A BITLINE JUNCTION OF A FLASH MEMORY CELL TO IMPROVE TPD CHARACTERISTICS
7,906,807	AF02523US DIV	United States	06/30/2010	03/15/2011	USE OF A POLYMER SPACER AND SI TRENCH IN A BITLINE JUNCTION OF A FLASH MEMORY CELL TO IMPROVE TPD CHARACTERISTICS
7,883,963	AF02525US	United States	10/25/2007	02/08/2011	SPLIT CHARGE STORAGE NODE OUTER SPACER PROCESS
8,039,891	AF02525US DIV	United States	12/29/2010	10/18/2011	SPLIT CHARGE STORAGE NODE OUTER SPACER PROCESS
7,829,936	AF02526US	United States	10/17/2007	11/09/2010	SPLIT CHARGE STORAGE NODE INNER SPACER PROCESS
8,012,830	AF02527US	United States	08/08/2007	09/06/2011	ORO AND ORPRO WITH BITLINE TRENCH TO SUPPRESS TRANSPORT PROGRAM DISTURB
13/190,565	AF02527US DIV	United States	07/26/2011		ORO AND ORPRO WITH BITLINE TRENCH TO SUPPRESS TRANSPORT PROGRAM DISTURB
7,951,675	AF02529US	United States	12/17/2007	05/31/2011	SI TRENCH BETWEEN BITLINE HDP FOR BVDSS IMPROVEMENT
7,691,751	AF02531US	United States	10/26/2007	04/06/2010	SELECTIVE SILICIDE FORMATION USING RESIST ETCHBACK
8,445,372	AF02531US DIV	United States	12/22/2009	05/21/2013	SELECTIVE SILICIDE FORMATION USING RESIST ETCHBACK
8,637,986	AF02536US	United States	10/22/2008	01/28/2014	SEMICONDUCTOR DEVICE AND METHOD FOR MANUFACTURING THEREOF
14/136,977	AF02536US DIV	United States	12/20/2013		SEMICONDUCTOR DEVICE AND METHOD FOR MANUFACTURING THEREOF
8,380,917	AF02539US	United States	06/12/2008	02/19/2013	COMMAND CONTROL FOR SYNCHRONOUS MEMORY DEVICE
8,122,204	AF02541US	United States	06/11/2008	02/21/2012	SHADOW WRITE AND TRANSFER SCHEMES FOR MEMORY DEVICES
7,981,746	AF02545US	United States	12/22/2008	07/19/2011	SEMICONDUCTOR DVICE AND METHOD FOR MANUFACTURING THEREOF
8,669,606	AF02545US DIV	United States	06/09/2011	03/11/2014	SEMICONDUCTOR DEVICE AND METHOD FOR MANUFACTURING THEREOF
7,535,767	AF02548US	United States	08/06/2007	05/19/2009	READING MULTI-CELL MEMORY DEVICES UTILIZING COMPLEMENTARY BIT INFORMATION
7,602,639	AF02550US	United States	12/14/2007	10/13/2009	READING ELECTRONIC MEMORY UTILIZING RELATIONSHIPS BETWEEN CELL STATE DISTRIBUTIONS
7,869,281	AF02550US CON	United States	08/31/2009	01/11/2011	READING ELECTRONIC MEMORY UTILIZING RELATIONSHIPS BETWEEN CELL STATE DISTRIBUTIONS
7,799,612	AF02553US	United States	06/25/2007	09/21/2010	PROCESS APPLYING DIE ATTACH FILM TO SINGULATED DIE
8,174,107	AF02554US	United States	12/17/2008	05/08/2012	STACKED SEMICONDUCTOR DEVICES AND METHOD FOR FABRICATING THE SAME
7,851,260	AF02556US	United States	12/10/2008	12/14/2010	METHOD FOR MANUFACTURING A SEMICONDUCTOR DEVICE
8,749,039	AF02557US	United States	08/21/2008	06/10/2014	SEMICONDUCTOR DEVICE AND METHOD FOR MANUFACTURING THEREOF
14/271,115	AF02557US DIV	United States	05/06/2014		SEMICONDUCTOR DEVICE HAVING CHIP MOUNTED ON AN INTERPOSER (as amended)
7,786,587	AF02559US	United States	07/01/2008	08/31/2010	STRUCTURE AND MANUFACTURING METHOD FOR A CHIP WHICH HAS A THROUGH-HOLE ELECTRODE

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PATENT OR APPL NO.	SPANSION REFERENCE NO.	COUNTRY	FILING DATE	ISSUE DATE	TITLE
8,148,771	AF02559US CON	United States	07/15/2010	04/03/2012	SEMICONDUCTOR DEVICE AND METHOD TO MANUFACTURE THEREOF
60/958,084	AF02559US PROV	United States	07/02/2007		STRUCTURE AND MANUFACTURING METHOD FOR A CHIP WHICH HAS A THROUGH-HOLE ELECTRODE
11/770,239	AF02560US	United States	06/28/2007		DIE ATTACHMENT, DIE STACKING, AND WIRE EMBEDDING USING FILM
7,482,217	AF02562US	United States	12/03/2007	01/27/2009	FORMING METAL-SEMICONDUCTOR FILMS HAVING DIFFERENT THICKNESSES WITHIN DIFFERENT REGIONS OF AN ELECTRONIC DEVICE
7,880,221	AF02562US DIV	United States	12/19/2008	02/01/2011	FORMING METAL-SEMICONDUCTOR FILMS HAVING DIFFERENT THICKNESSES WITHIN DIFFERENT REGIONS OF AN ELECTRONIC DEVICE
8,832,408	AF02563US	United States	10/30/2007	09/09/2014	NON-VOLATILE MEMORY ARRAY PARTITIONING ARCHITECTURE AND METHOD TO UTILIZE SINGLE LEVEL CELLS AND MULTI-LEVEL CELLS WITHIN THE SAME MEMORY
8,650,399	AF02565US	United States	02/29/2008	02/11/2014	MEMORY DEVICE AND CHIP SET PROCESSOR PAIRING
7,945,792	AF02566	United States	10/17/2008		TAMPER REACTIVE MEMORY DEVICE TO SECURE DATA FROM TAMPER ATTACKS
8,201,258	AF02567US	United States	10/17/2007	06/12/2012	SECURE PERSONALIZATION OF MEMORY-BASED ELECTRONIC DEVICES
8,140,746	AF02568US	United States	12/14/2007	03/20/2012	INTELLIGENT MEMORY DATA MANAGEMENT
8,694,776	AF02570US	United States	12/21/2007	04/08/2014	AUTHENTICATED MEMORY AND CONTROLLER SLAVE
14/180,444	AF02570US CON	United States	02/14/2014		AUTHENTICATED MEMORY AND CONTROLLER SLAVE
8,130,955	AF02571US	United States	12/21/2007	03/06/2012	RANDOM NUMBER GENERATION THROUGH USE OF MEMORY CELL ACTIVITY
8,670,557	AF02572US	United States	09/10/2007	03/11/2014	CRYPTOGRAPHIC SYSTEM WITH MODULAR RANDOMIZATION OF EXPONENTIATION
8,202,810	AF02583US	United States	01/09/2008	06/19/2012	LOW-H PLASMA TREATMENT FOR ELECTRONIC MEMORY DEVICES
7,787,312	AF02585US	United States	05/30/2008	08/31/2010	SEMICONDUCTOR DEVICE AND CONTROLLING METHOD FOR THE SAME
7,679,968	AF02586US	United States	05/29/2008	03/16/2010	ENHANCED ERASING OPERATION FOR NON-VOLATILE MEMORY SEMICONDUCTOR DEVICE AND METHOD FOR CONTROLLING THEREOF
8,423,705	AF02587US	United States	06/13/2008	04/16/2013	
60/152,151	AF02589	United States	08/31/1999		MULTI-PROCESSOR TECHNIQUES
09/652,815	AF02589US CIP	United States	08/31/2000		HIGH-AVAILABILITY SHARED-MEMORY CLUSTER
09/653,183	AF02589US CIP2	United States	08/31/2000		MULTI-PROCESSOR TECHNIQUES
09/653,189	AF02589US CIP3	United States	08/31/2000		MULTI-PROCESSOR TECHNIQUES
09/653,421	AF02589US CIP4	United States	08/31/2000		EFFICIENT PAGE OWNERSHIP CONTROL
09/653,425	AF02589US CIP5	United States	08/31/2000		MULTI-PROCESSOR TECHNIQUES
09/653,429	AF02589US CIP6	United States	08/31/2000		MULTI-PROCESSOR TECHNIQUES
09/653,475	AF02589US CIP7	United States	08/31/2000		SHARED MEMORY DISK
09/653,502	AF02589US CIP8	United States	08/31/2000		MULTI-PROCESSOR TECHNIQUES
09/653,557	AF02589US CIP9	United States	08/31/2000		MULTI-PROCESSOR TECHNIQUES
09/672,909	AF02590	United States	09/28/2000		LOW LATENCY, HIGH BANDWIDTH MULTI-COMPUTER SYSTEM INTERCONNECT
60/159,086	AF02590	United States	10/13/1999		LOW LATENCY, HIGH BANDWIDTH MULTI-COMPUTER SYSTEM INTERCONNECT
60/220,748	AF02591	United States	07/26/2000		TECHNIQUE FOR PROVIDING GLOBALLY-AVAILABLE SYNCHRONIZATION PRIMITIVES IN A DISTRIBUTED COMPUTING ENVIRONMENT WHERE NODES WITHIN THAT ENVIRONMENT SHARE AT LEAST ONE STORAGE RESOURCE
60/220,974	AF02592	United States	07/26/2000		EFFICIENT EVENT WRITING
6,675,277	AF02592US	United States	07/25/2001	01/06/2004	DEMAND USABLE ADAPTER MEMORY ACCESS MANAGEMENT
6,665,777	AF02592US CIP	United States	07/25/2001	12/15/2003	MULTIPLE BLOCK SEQUENTIAL MEMORY MANAGEMENT
09/912,833	AF02592US CIP	United States	07/25/2001		METHOD AND APPARATUS FOR DEMAND USABLE ADAPTER MEMORY ACCESS MANAGEMENT
09/912,856	AF02592US CIP3	United States	07/25/2001		EFFICIENT EVENT WRITING
6,782,440	AF02592US CIP4	United States	07/25/2001	08/24/2004	RESOURCE LOCKING AND THREAD SYNCHRONIZATION IN A MULTIPROCESSOR ENVIRONMENT
09/912,872	AF02592US CIP5	United States	07/25/2001		EFFICIENT EVENT WRITING
6,715,059	AF02592US CIP6	United States	07/25/2001	03/30/2004	METHODS AND SYSTEMS FOR A SHARED MEMORY UNIT WITH EXTENDABLE FUNCTIONS
09/915,002	AF02592US CIP8	United States	07/25/2001		EFFICIENT EVENT WRITING
6,892,298	AF02592US CIP9	United States	07/25/2001	05/10/2005	LOAD/STORE MICROPACKET HANDLING SYSTEM
6,295,571	AF02593US	United States	03/19/1999	09/25/2001	SHARED MEMORY APPARATUS AND METHOD FOR MULTIPROCESSOR SYSTEMS
6,467,011	AF02593US CON	United States	05/15/2001	10/15/2002	SHARED MEMORY APPARATUS AND METHOD FOR MULTIPROCESSOR SYSTEMS
6,519,672	AF02593US DIV	United States	05/10/2001	02/11/2003	SHARED MEMORY APPARATUS AND METHOD FOR MULTIPROCESSOR SYSTEMS
7,749,855	AF02597US	United States	08/14/2007	07/06/2010	CAPACITOR STRUCTURE USED FOR FLASH MEMORY
11/957,028	AF02598US	United States	12/14/2007		REDUCING NOISE AND DISTURBANCE BETWEEN MEMORY STORAGE ELEMENTS USING ANGLED WORDLINES
11/835,545	AF02599	United States	08/08/2007		SINGULATED BARE DIE TESTING
60/895,920	AF02599	United States	03/20/2007		SINGULATED BARE DIE TESTING
12/038,059	AF02600US	United States	02/27/2008		SECURE DATA TRANSFER AFTER AUTHENTICATION BETWEEN MEMORY AND A REQUESTOR
7,979,658	AF02601US	United States	03/25/2008	07/12/2011	SECURE MANAGEMENT OF MEMORY REGIONS IN A MEMORY
8,239,732	AF02602US	United States	10/30/2007	08/07/2012	ERROR CORRECTION CODING IN FLASH MEMORY DEVICES
7,921,322	AF02603US	United States	10/17/2007	04/05/2011	OPTIMIZE PERSONALIZATION CONDITIONS FOR ELECTRONIC DEVICE TRANSMISSION RATES WITH INCREASED TRANSMITTING FREQUENCY

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PATENT OR APPL NO.	SPANSON REFERENCE NO.	COUNTRY	FILING DATE	ISSUE DATE	TITLE
8,139,763	AF02635US	United States	10/10/2007	03/20/2012	RANDOMIZED RSA-BASED CRYPTOGRAPHIC EXPONENTIATION RESISTANT TO SIDE CHANNEL AND FAULT ATTACKS
7,838,406	AF02636US	United States	12/31/2008	11/23/2010	SONOS-NAND DEVICE HAVING THE STORAGE REGION SEPARATED BETWEEN CELLS
7,979,667	AF02637US	United States	12/10/2007	07/12/2011	MEMORY ARRAY SEARCH ENGINE
7,949,851	AF02638US	United States	12/28/2007	05/24/2011	TRANSLATION MANAGEMENT OF LOGICAL BLOCK ADDRESSES AND PHYSICAL BLOCK ADDRESSES
8,464,021	AF02639US	United States	05/28/2008	06/11/2013	ADDRESS CACHING STORED TRANSLATION
8,239,611	AF02640US	United States	12/28/2007	08/07/2012	RELOCATING DATA IN A MEMORY DEVICE
13/539,688	AF02640US DIV	United States	07/02/2012		RELOCATING DATA IN A MEMORY DEVICE
8,239,875	AF02641US	United States	12/21/2007	08/07/2012	COMMAND QUEUING FOR NEXT OPERATIONS OF MEMORY DEVICES
7,675,776	AF02643US	United States	12/21/2007	03/09/2010	BIT MAP CONTROL OF ERASE BLOCK DEFECT LIST IN A MEMORY
7,953,919	AF02644	United States	12/21/2007	05/31/2011	PHYSICAL BLOCK ADDRESSING OF ELECTRONIC MEMORY DEVICES
8,788,740	AF02645US	United States	12/21/2007	07/22/2014	DATA COMMIT ON MULTICYCLE PASS COMPLETE WITHOUT ERROR
6,567,312	AF02649US	United States	10/13/2000	05/20/2003	NONVOLATILE SEMICONDUCTOR MEMORY DEVICE
8,898,350	AF02651US	United States	11/27/2007	11/25/2014	MULTI-BUS ARCHITECTURE FOR MASS STORAGE SYSTEM-ON-CHIP CONTROLLERS
8,239,182	AF02652US	United States	12/04/2007	08/07/2012	DATA TRANSMISSION SYSTEM-ON-CHIP MEMORY MODEL BASED VALIDATION
11/963,466	AF02653US	United States	12/21/2007		HIGH PERFORMANCE FLASH CHANNEL INTERFACE
11/963,241	AF02654US	United States	12/21/2007		FLEXIBLE FLASH INTERFACE
8,261,124	AF02657US	United States	12/21/2007	09/04/2012	SYSTEM AND METHOD FOR OPTIMIZED ERROR CORRECTION IN FLASH MEMORY ARRAYS
7,827,359	AF02658US	United States	12/14/2007	11/02/2010	CLOCK ENCODED PRE-FETCH TO ACCESS MEMORY DATA IN CLUSTERING NETWORK ENVIRONMENT
8,175,528	AF02659US	United States	03/18/2008	05/08/2012	WIRELESS MASS STORAGE FLASH MEMORY
8,440,357	AF02660.DIV	United States	06/09/2011	05/14/2013	FUEL CELL CATALYST REGENERATION
7,981,825	AF02660US	United States	03/27/2008	07/19/2011	FUEL CELL CATALYST REGENERATION
8,793,992	AF02663US	United States	07/28/2008	08/05/2014	THERMOELECTRIC DEVICE FOR USE WITH STIRLING ENGINE
8,017,859	AF02666US	United States	10/17/2007	09/13/2011	PHOTOVOLTAIC THIN COATING FOR COLLECTOR GENERATOR
7,842,880	AF02667US	United States	11/29/2007	11/30/2010	WEAVABLE FIBER PHOTOVOLTAIC COLLECTORS
12/206,117	AF02674US	United States	09/08/2008		SOI SUBSTRATE USING DIC
7,645,993	AF02681US	United States	12/28/2007	01/12/2010	ARRAYED NEUTRON DETECTOR WITH MULTI SHIELDING ALLOWING FOR DISCRIMINATION BETWEEN RADIATION TYPES
7,732,276	AF02691US	United States	04/26/2007	06/08/2010	SELF-ALIGNED PATTERNING METHOD BY USING NON-CONFORMAL FILM AND ETCH BACK FOR FLASH MEMORY AND OTHER SEMICONDUCTOR APPLICATIONS
8,035,153	AF02691US DIV	United States	05/26/2010	10/11/2011	SELF-ALIGNED PATTERNING METHOD BY USING NON-CONFORMAL FILM AND ETCH FOR FLASH MEMORY AND OTHER SEMICONDUCTOR APPLICATIONS
7,948,035	AF02693US	United States	02/20/2008	05/24/2011	DECODING SYSTEM CAPABLE OF CHARGING PROTECTION FOR FLASH MEMORY DEVICES
13/183,373	AF02694.DIV	United States	07/14/2011		A 3-D INTEGRATED CIRCUIT SYATEM AND MENTHOD
7,998,846	AF02694US	United States	09/12/2008	08/16/2011	A 3-D INTEGRATED CIRCUIT SYATEM AND MENTHOD
7,907,448	AF02695	United States	10/07/2008	03/15/2011	SCALED DOWN SELECT GATES OF NAND FLASH MEMORY CELL STRINGS AND METHOD OF FORMING SAME
12/105,208	AF02696US	United States	04/17/2008		USE OF SILICON RICH SILICON NITRIDE IN A MEMORY DEVICE
7,848,146	AF02697US	United States	03/19/2009	12/07/2010	PARTIAL LOCAL SELF-BOOSTING OF A MEMORY CELL CHANNEL
8,692,310	AF02698US	United States	02/09/2009	04/08/2014	GATE FRINGING EFFECT BASED CHANNEL FORMATION FOR SEMICONDUCTOR DEVICE
14/179,316	AF02698US DIV	United States	02/12/2014		GATE FRINGING EFFECT BASED CHANNEL FORMATION FOR SEMICONDUCTOR DEVICE
8,638,609	AF02699US	United States	05/19/2010	01/28/2014	PARTIAL LOCAL SELF BOOSTING FOR NAND
14/132,430	AF02699US CON	United States	12/18/2013		PARTIAL LOCAL SELF BOOSTING FOR NAND
12/240,627	AF02700US	United States	09/29/2008		MECHANICAL ENHANCEMENT OF NANO-POROUS ULTRA LOW DIELECTRIC FILMS AS INTER LAYER DIELECTRIC MATERIALS FOR 40NM AND BEYOND NAND BACK-END-OF-LINE APPLICATION TO REDUCE RC OR INTERCONNECT DELAY
7,867,899	AF02701US	United States	04/29/2008	01/11/2011	WORDLINE RESISTANCE REDUCTION METHOD AND STRUCTURE IN AN INTEGRATED CIRCUIT MEMORY DEVICE
12/961,379	AF02701US DIV	United States	12/06/2010		WORDLINE RESISTANCE REDUCTION METHOD AND STRUCTURE IN AN INTEGRATED CIRCUIT MEMORY DEVICE
8,669,597	AF02703US	United States	05/06/2008	03/11/2014	MEMORY DEVICE INTERCONNECTS AND METHOD OF MANUFACTURING
14/102,446	AF02703US CON1	United States	12/10/2013		MEMORY DEVICE INTERCONNECTS AND METHOD OF MANUFACTURE
14/102,450	AF02703US CON2	United States	12/10/2013		MEMORY DEVICE INTERCONNECTS AND METHOD OF MANUFACTURE
8,171,627	AF02708US	United States	12/21/2007	05/08/2012	METHOD OF FORMING AN ELECTRONIC DEVICE
8,643,083	AF02708US DIV	United States	05/07/2012	02/04/2014	ELECTRONIC DEVICES WITH ULTRAVIOLET BLOCKING LAYERS (as amended)
8,003,306	AF02718US	United States	12/17/2007	08/23/2011	METHODS OF FORMING ELECTRONIC DEVICES BY ION IMPLANTING
12/879,936	AF02722US	United States	09/10/2010		APPARATUS AND METHOD FOR PROGRAMMABLE READ PREAMBLE
7,915,169	AF02731US	United States	11/02/2007	03/29/2011	PROCESSES FOR FORMING ELECTRONIC DEVICES INCLUDING POLISHING METAL-CONTAINING LAYERS
8,232,209	AF02731US CON	United States	02/11/2011	07/31/2012	PROCESSES FOR FORMING ELECTRONIC DEVICES INCLUDING POLISHING METAL-CONTAINING LAYERS
8,179,153	AF02739US	United States	07/17/2008	05/15/2012	PROBE APPARATUS, A PROCESS OF FORMING A PROBE HEAD, AND A PROCES OD FORMING AN ELECTRONIC DEVICE

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PATENT OR APPL NO.	SPANSON REFERENCE NO.	COUNTRY	FILING DATE	ISSUE DATE	TITLE
7,986,579	AF02763US	United States	02/13/2008	07/26/2011	MEMORY DEVICE AND METHOD THEREOF
7,791,947	AF02764US	United States	01/10/2008	09/07/2010	NON-VOLATILE MEMORY DEVICE AND METHODS OF USING
12/366,519	AF02765US	United States	02/05/2009		FRACTURED ERASE SYSTEM AND METHOD
14/630,238	AF02765US DIV	United States	02/24/2015		FRACTURED ERASE SYSTEM AND METHOD
8,386,736	AF02766US	United States	12/18/2008	02/26/2013	NAND PROGRAM SEQUENCE REORDERING
13/764,602	AF02766US CON	United States	02/11/2013		RAPID MEMORY BUFFER WRITE STORAGE SYSTEM AND METHOD
8,273,627	AF02767US	United States	12/17/2008	09/25/2012	SEMICONDUCTOR DEVICE AND METHOD FOR MANUFACTURING THEREOF
7,835,172	AF02770US	United States	10/01/2008	11/16/2010	SYSTEM AND METHOD OF OPERATION FOR RESISTIVE CHANGE MEMORY
10/449,414	AF02801	United States	06/02/2003		NONVOLATILE SEMICONDUCT MEMORY DEVICE AND METHOD FOR FABRICATING THE SAME
6,507,068	AF02806US	United States	09/25/1998	01/14/2003	FLASH MEMORY DEVICE AND A FABRICATION PROCESS THEREOF
7,894,238	AF02812US	United States	10/17/2008	02/22/2011	SEMICONDUCTOR MEMORY DEVICE WITH STACKED MEMORY CELL STRUCTURE
8,289,750	AF02812US CON	United States	01/12/2011	10/16/2012	SEMICONDUCTOR MEMORY DEVICE FEATURING SELECTIVE DATA STORAGE IN A STACKED MEMORY CELL
8,773,885	AF02812US CON2	United States	09/19/2012	07/08/2014	SEMICONDUCTOR MEMORY DEVICE FEATURING SELECTIVE DATA STORAGE IN A STACKED MEMORY CELL STRUCTURE
8,938,655	AF02814US	United States	12/20/2007	01/20/2015	EXTENDING FLASH MEMORY DATA RETENTION VIA REWRITE REFRESH
8,004,888	AF02816US	United States	09/22/2008	08/23/2011	FLASH MIRROR BIT ARCHITECTURE USING SINGLE PROGRAM AND ERASE ENTITY AS LOGICAL CELL
7,864,596	AF02817US	United States	09/22/2008	01/04/2011	SECTOR CONFIGURE REGISTERS FOR A FLASH DEVICE GENERATING MULTIPLE VIRTUAL GROUND DECODING SCHEMES
7,881,105	AF02818US	United States	09/22/2008	02/01/2011	QUAD + BIT STORAGE IN TRAP BASED FLASH DESIGN USING SINGLE PROGRAM AND ERASE ENTITY AS LOGICAL CELL
7,907,455	AF02819US	United States	09/22/2008	03/15/2011	HIGH VT STATE USED AS ERASE CONDITION IN TRAP BASED NOR FLASH CELL DESIGN
7,804,713	AF02820US	United States	09/22/2008	09/28/2010	EEPROM EMULATION IN FLASH DEVICE
7,791,954	AF02821US	United States	09/22/2008	09/07/2010	DYNAMIC ERASE STATE IN FLASH DEVICE
12/258,131	AF02822US	United States	10/24/2008		PACKAGE HAVING DUMMY METAL FOR LESS CURVE
11/961,757	AF02823US	United States	12/20/2007		ELECTRONIC DEVICE INCLUDING A SILICON NITRIDE LAYER AND A PROCESS OF FORMING THE SAME
8,700,830	AF02824US	United States	11/20/2007	04/15/2014	A MEMORY BUFFERING SYSTEM THAT IMPROVES READ/WRITE PERFORMANCE AND PROVIDES LOW LATENCY FOR MOBILE SYSTEMS
14/250,113	AF02824US CON	United States	04/10/2014		MEMORY BUFFERING SYSTEM THAT IMPROVES READ/WRITE PERFORMANCE AND PROVIDES LOW LATENCY FOR MOBILE SYSTEMS
7,840,900	AF02833US	United States	04/30/2009	11/23/2010	REPLACING RESET PIN IN BUSES WHILE GUARANTEEING SYSTEM RECOVERY
8,359,423	AF02834US	United States	03/14/2008	01/22/2013	USING LPDDR1 BUS AS TRANSPORT LAYER TO COMMUNICATE TO FLASH
7,630,250	AF02850US	United States	10/16/2007	12/08/2009	CONTROLLED RAMP RATES FOR METAL BITLINES DURING WRITE OPERATIONS FROM HIGH VOLTAGE DRIVER FOR MEMORY APPLICATIONS
7,619,932	AF02851US	United States	12/18/2007	11/17/2009	ALGORITHM FOR CHARGE LOSS REDUCTION AND VT DISTRIBUTION IMPROVEMENT
7,785,973	AF02853US	United States	01/25/2008	08/31/2010	ELECTRONIC DEVICE INCLUDING A GATE ELECTRODE HAVING PORTIONS WITH DIFFERENT CONDUCTIVITY TYPES AND A PROCESS OF FORMING THE SAME
8,310,008	AF02853US DIV	United States	07/27/2010	11/13/2012	ELECTRONIC DEVICE INCLUDING A GATE ELECTRODE HAVING PORTIONS WITH DIFFERENT CONDUCTIVITY TYPES
7,830,716	AF02854US	United States	06/06/2008	11/09/2010	NON VOLATILE MEMORY STRING MODULE WITH BUFFER AND METHOD
11/950,339	AF02855US	United States	12/04/2007		METHOD OF OPERATING A PROCESSING CHAMBER USED IN FORMING ELECTRONIC DEVICES
7,613,042	AF02856US	United States	11/05/2007	11/03/2009	DECODING SYSTEM CAPABLE OF REDUCING SECTOR SELECT AREA OVERHEAD FOR FLASH MEMORY
8,117,521	AF02857US	United States	08/26/2008	02/14/2012	IMPLEMENTATION OF RECYCLING UNUSED ECC PARITY BITS DURING FLASH MEMORY PROGRAMING
7,944,746	AF02858US	United States	11/27/2007	05/17/2011	ROOM TEMPERATURE DRIFT SUPPRESSION VIA SOFT PROGRAM AFTER ERASE
8,445,913	AF02861US	United States	10/30/2007	05/21/2013	METAL-INSULATOR-METAL (MIM) DEVICE AND METHOD OF FORMATION THEREOF
8,828,837	AF02861US DIV	United States	04/19/2013	09/09/2014	METAL-INSULATOR-METAL (MIM) DEVICE AND METHOD OF FORMATION THEREOF
14/460,205	AF02861US DIV2	United States	08/14/2014		METAL-INSULATOR-METAL (MIM) DEVICE AND METHOD OF FORMATION THEREOF
7,602,067	AF02862US	United States	12/17/2007	10/13/2009	HETERO-STRUCTURE VARIABLE SILICON RICHNESS NITRIDE FOR MLC FLASH MEMORY DEVICE
7,706,168	AF02864US	United States	10/30/2007	04/27/2010	IMPROVEMENT OF ERASE, PROGRAMMING AND LEAKAGE CHARACTERISTICS OF A RESISTIVE MEMORY DEVICE
11/844,518	AF02865US	United States	08/24/2007		PROCESS OF FORMING AN ELECTRONIC DEVICE INCLUDING DEPOSITING LAYERS WITHIN OPENINGS
7,979,625	AF02866US	United States	11/27/2007	07/12/2011	SPI BANK ADDRESSING SCHEME FOR MEMORY DENSITIES ABOVE 128MB
7,984,284	AF02867US	United States	11/27/2007	07/19/2011	SPI AUTO-BOOT MODE
7,932,131	AF02868US	United States	11/05/2007	04/26/2011	REDUCTION OF PACKAGE HEIGHT IN A STACKED DIE CONFIGURATION
7,893,681	AF02869US	United States	12/12/2008	02/22/2011	ELECTRONIC CIRCUIT

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PATENT OR APPL NO.	SPANSION REFERENCE NO.	COUNTRY	FILING DATE	ISSUE DATE	TITLE
7,567,457	AF02871US	United States	10/30/2007	07/28/2009	NONVOLATILE MEMORY ARRAY PARTITIONING ARCHITECTURE AND METHOD TO UTILIZE SINGLE LEVEL CELL, AND MULTI LEVEL CELLS WITHIN THE SAME MEMORY ARRAY
8,874,810	AF02873US	United States	11/21/2008	10/28/2014	SYSTEM AND METHOD FOR READ DATA BUFFERING WHEREIN ANALYZING POLICY DETERMINES WHETHER TO DECREMENT OR INCREMENT THE COUNT OF INTERNAL OR EXTERNAL BUFFERS
14/520,016	AF02873US DIV	United States	10/21/2014		STORAGE SYSTEM AND METHOD
61/004,434	AF02873US PROV	United States	11/26/2007		STORAGE SYSTEM AND METHOD
8,732,360	AF02874US	United States	11/21/2008	05/20/2014	SYSTEM AND METHOD FOR ACCESSING MEMORY
61/004,362	AF02874US PROV	United States	11/26/2007		SYSTEM AND METHOD FOR ACCESSING MEMORY
61/004,412	AF02875PROV	United States	11/26/2007		A METHOD FOR SETTING PARAMETERS AND DETERMINING LATENCY IN A CHAINED DEVICE SYSTEM
8,930,593	AF02875US	United States	11/21/2008	01/06/2015	METHOD FOR SETTING PARAMETERS AND DETERMINING LATENCY IN A CHAINED DEVICE SYSTEM
8,601,181	AF02876US	United States	11/21/2008	12/03/2013	SYSTEM AND METHOD FOR READ DATA BUFFERING WHEREIN AN ARBITRATION POLICY DETERMINES WHETHER INTERNAL OR EXTERNAL BUFFERS ARE GIVEN PREFERENCE
61/004,361	AF02876US PROV	United States	11/26/2007		SYSTEMS AND METHODS FOR READ DATA BUFFERING
7,894,267	AF02879	United States	10/30/2007	02/22/2011	DETERMINISTIC PROGRAMMING ALGORITHM THAT PROVIDES TIGHTER CELL DISTRIBUTIONS WITH A REDUCED NUMBER OF PROGRAMMING PULSES
7,995,385	AF02880US	United States	10/30/2007	08/09/2011	MEMORY ARRAY OF PAIRS OF NONVOLATILE MEMORY CELLS USING FOWLER-NORDHEIM PROGRAMMING AND ERASING
7,558,101	AF02881US	United States	12/14/2007	07/07/2009	SCAN SENSING METHOD THAT IMPROVES SENSING MARGINS
8,040,738	AF02882US	United States	12/30/2008	10/18/2011	MTHOD AND APPARATUS FOR PERFORMING SEMICONDUCTOR MEMORY OPERATIONS
7,561,484	AF02883US	United States	12/13/2007	07/14/2009	REFERENCE-FREE SAMPLED SENSING
7,804,715	AF02884US	United States	05/05/2008	09/28/2010	BITCELL CURRENT SENSE DEVICE AND METHOD THEREOF
7,787,313	AF02885US	United States	03/27/2008	08/31/2010	A BITLINE VOLTAGE DRIVER
8,295,102	AF02885US CON	United States	07/23/2010	10/23/2012	A BITLINE VOLTAGE DRIVER
8,003,545	AF02886US	United States	02/14/2008	08/23/2011	METHOD OF FORMING AN ELECTRONIC DEVICE INCLUDING FORMING FEATURES WITHIN A MASK AND A SELECTIVE REMOVAL PROCESS
8,409,952	AF02887US	United States	04/14/2008	04/02/2013	METHOD OF FORMING AN ELECTRONIC DEVICE INCLUDING FORMING A CHARGE STORAGE ELEMENT IN A TRENCH OF A WORKPIECE
8,097,961	AF02888US	United States	12/22/2008	01/17/2012	SEMICONDUCTOR DVICE HAVING A SIMPLIFIED STACK AND METHOD FOR MANUFACTURING THEREOF
8,361,857	AF02888US DIV	United States	12/12/2011	01/29/2013	SEMICONDUCTOR DEVICE HAVING A SIMPLIFIED STACK AND METHOD FOR MANUFACTURING THEREOF
7,675,805	AF02892US	United States	01/04/2008	03/09/2010	TABLE LOOKUP VOLTAGE COMPENSATION FOR MEMORY CELLS
7,965,574	AF02892US CON	United States	02/22/2010	06/21/2011	TABLE LOOKUP VOLTAGE COMPENSATION FOR MEMORY CELLS
8,189,421	AF02892US CON3	United States	05/13/2011	05/29/2012	TABLE LOOKUP VOLTAGE COMPENSATION FOR MEMORY CELLS
8,456,941	AF02892US CON3	United States	05/25/2012	06/04/2013	TABLE LOOKUP VOLTAGE COMPENSATION FOR MEMORY CELLS
12/022,795	AF02897US	United States	01/30/2008		ELECTRONIC DEVICE HAVING A DOPED REGION WITH A GROUP 13 ATOM
7,761,740	AF02898US	United States	12/13/2007	07/20/2010	POWER SAFE TRANSLATION TABLE OPERATION IN FLASH MEMORY
8,041,895	AF02899US	United States	01/28/2008	10/18/2011	TRANSLATION TABLE CACHE COHERENCY MECHANISM USING CACHE WAY SET INDEX WRITE BUFFER
8,656,083	AF02900US	United States	12/21/2007	02/18/2014	FREQUENCY DISTRIBUTED FLASH MEMORY ALLOCATION BASED ON FREE PAGE TABLES
8,694,714	AF02901US	United States	01/18/2008	04/08/2014	RETARGETING OF A WRITE OPERATION RETRY IN THE EVENT OF A WRITE OPERATION FAILURE
8,010,776	AF02902US	United States	12/17/2007	08/30/2011	ADAPTIVE SYSTEM BOOT ACCELERATOR FOR COMPUTING SYSTEMS
8,261,006	AF02903US	United States	12/19/2007	09/04/2012	EFFICIENT MEMORY HIERARCHY IN SOLID STATE DRIVE DESIGN
12/206,310	AF02905US	United States	09/08/2008		PROCESS OF FABRICATING A WORKPIECE USING A TEST MASK
61/093,646	AF02905US PROV	United States	09/02/2008		PROCESS FOR FABRICATING A WORKPIECE USING A TEST MASK
8,774,400	AF02907US	United States	01/03/2008	07/08/2014	METHOD FOR PROTECTING DATA AGAINST DIFFERENTIAL FAULT ANALYSIS INVOLVED IN RIVEST, SHAMIR AND ADELMAN CRYPTOGRAPHY USING THE CHINESE REMAINDER THEOREM
6,643,178	AF02911US	United States	07/31/2001	11/04/2003	SYSTEM FOR SOURCE SIDE SENSING
8,275,945	AF02912US	United States	02/05/2008	09/25/2012	MITIGATION OF FLASH MEMORY LATENCY AND BANDWIDTH LIMITATIONS VIA A WRITE ACTIVITY LOG AND BUFFER
14/269,299	AF02912US CON	United States	05/05/2014		MITIGATE FLASH WRITE LATENCY AND BANDWIDTH LIMITATION
8,756,376	AF02912US DIV	United States	08/21/2012	06/17/2014	MITIGATE FLASH WRITE LATENCY AND BANDWIDTH LIMITATION VIA CACHING AND DATA CAPACITY OF A BUFFER
8,352,671	AF02913US	United States	02/05/2008	01/08/2013	PARTIAL ALLOCATE PAGING MECHANISM USING A CONTROLLER AND A BUFFER
13/709,479	AF02913US CON	United States	12/10/2012		PARTIAL ALLOCATE PAGING MECHANISM USING A CONTROLLER AND A BUFFER
8,209,463	AF02914US	United States	02/05/2008	06/26/2012	EXPANSION SLOTS FOR FLASH MEMORY BASED RANDOM ACCESS MEMORY SUBSYSTEM
8,332,572	AF02915US	United States	02/05/2008	12/11/2012	WEAR LEVELING MECHANISM USING A DRAM BUFFER
8,719,489	AF02915US CON	United States	11/07/2012	05/06/2014	HARDWARE BASED WEAR LEVELING MECHANISM
8,228,679	AF02918US	United States	04/02/2008	07/24/2012	CONNECTIONS FOR ELECTRONIC DEVICES ON DOUBLE-SIDED CIRCUIT BOARD
7,902,520	AF02921US	United States	12/19/2008	03/08/2011	RADIATION DETECTING ELECTRONIC DEVICE AND METHODS OF OPERATING
8,738,840	AF02922US	United States	03/31/2008	05/27/2014	OPERATING SYSTEM BASED DRAM AND FLASH MANAGEMENT
14/253,056	AF02922US CON	United States	04/15/2014		OPERATING SYSTEM BASED DRAM AND FLASH MANAGEMENT
7,838,342	AF02932US	United States	06/06/2008	11/23/2010	MEMORY DEVICE AND METHOD

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PATENT OR APPL NO.	SPANSON REFERENCE NO.	COUNTRY	FILING DATE	ISSUE DATE	TITLE
7,983,089	AF02933US	United States	06/06/2008	07/19/2011	SENSE AMPLIFIER WITH CAPACITANCE-COUPLED DIFFERENTIAL SENSE AMPLIFIER
8,514,631	AF02933US DIV	United States	06/07/2011	08/20/2013	DETERMINING A LOGIC STATE BASED ON CURRENTS RECEIVED BY A SENSE AMPLIFIER
8,563,441	AF02937US	United States	04/28/2008	10/22/2013	METHODS FOR FABRICATING MEMORY CELLS HAVING FIN STRUCTURES WITH SMOOTH SIDEWALLS AND ROUNDED TOP CORNERS AND EDGES
8,404,549	AF02944US	United States	11/06/2008	03/26/2013	FABRICATING METHOD OF MIRROR BIT MEMORY DEVICE HAVING SPLIT ONO FILM WITH TOP OXIDE FILM FORMED BY OXIDATION PROCESS
8,669,161	AF02944US CON	United States	02/25/2013	03/11/2014	FABRICATING METHOD OF MIRROR BIT MEMORY DEVICE HAVING SPLIT ONO FILM WITH TOP OXIDE FILM FORMED BY OXIDATION PROCESS
8,610,199	AF02944US DIV	United States	02/25/2013	12/17/2013	FABRICATING METHOD OF MIRROR BIT MEMORY DEVICE HAVING SPLIT ONO FILM WITH TOP OXIDE FILM FORMED BY OXIDATION PROCESS
8,370,644	AF02946US	United States	05/30/2008	02/05/2013	INSTANT HARDWARE ERASE MECHANISM FOR CONTENT RESET AND PSEUDO-RANDOM NUMBER GENERATION
12/180,185	AF02948US	United States	07/25/2008		STACKED DIE PACKAGE HAVING REDUCED HEIGHT AND METHOD OF MAKING SAME
8,072,802	AF02949US	United States	12/05/2008	12/06/2011	MEMORY EMPLOYING REDUNDANT CELL ARRAY OF MULTI-BIT CELLS
7,849,229	AF02953US	United States	11/25/2008	12/07/2010	SPI ADDRESSING BEYOND 24-BITS
12/273,289	AF02956US	United States	11/18/2008		ELECTROPLATING APPARATUS AND METHOD WITH UNIFORMITY IMPROVEMENT
7,940,570	AF02962US	United States	06/29/2009	05/10/2011	EMPLOYING SEPARATE DYNAMIC REFERENCE AREAS
7,961,519	AF02966US	United States	06/29/2009	06/14/2011	MEMORY EMPLOYING INDEPENDENT DYNAMIC REFERENCE AREAS
12/489,226	AF02968US	United States	06/22/2009		NAND MEMORY CELL STRING HAVING A STACKED SELECT GATE STRUCTURE AND PROCESS FOR FORMING THE SAME
8,487,373	AF02970US	United States	04/29/2009	07/16/2013	SONOS MEMORY CELLS HAVING NON-UNIFORM TUNNEL OXIDE AND METHODS FOR FABRICATING SAME
8,742,496	AF02970US DIV	United States	06/17/2013	06/03/2014	SONOS MEMORY CELLS HAVING NON-UNIFORM TUNNEL OXIDE AND METHODS FOR FABRICATING SAME
8,790,751	AF02974US	United States	04/16/2008	07/29/2014	METHOD OF IMPROVING ADHESION OF DIELECTRIC CAP TO COPPER
8,271,737	AF02975US	United States	05/27/2009	09/18/2012	CACHE AUTO-FLUSH IN A SOLID STATE MEMORY DEVICE
8,581,595	AF02978US	United States	08/15/2008	11/12/2013	METHOD FOR MEASURING FLASH MEMORY CELL CURRENT
8,122,181	AF02989US	United States	11/13/2008	02/21/2012	SYSTEMS AND METHODS FOR ENHANCING A DATA STORE FOR HANDLING SEMANTIC INFORMATION
7,969,816	AF02990US	United States	08/26/2009	06/28/2011	MEMORY DEVICE
8,299,439	AF02992US	United States	05/19/2009	10/30/2012	RADIATION DETECTING DEVICE AND METHOD OF OPERATING
8,581,203	AF02992US DIV	United States	09/13/2012	11/12/2013	RADIATION DETECTING DEVICE AND METHOD OF OPERATING
12/110,974	AF02993US	United States	04/28/2008		METHODS FOR FABRICATING MEMORY CELLS HAVING FIN STRUCTURES WITH SEMICIRCULAR TOP SURFACES AND ROUNDED TOP CORNERS AND EDGES
12/340,295	AF02994	United States	12/19/2008		NEUTRON DETECTOR FOR UBIQUITOUS MONITORING
8,560,761	AF02995US	United States	03/31/2008	10/15/2013	MEMORY RESOURCE MANAGEMENT FOR A FLASH AWARE KERNEL
8,745,311	AF02996US	United States	03/31/2008	06/03/2014	FLASH MEMORY USABILITY ENHANCEMENTS IN MAIN MEMORY APPLICATION
8,458,393	AF02997US	United States	03/31/2008	06/04/2013	FLASH MEMORY AND OPERATING SYSTEM KERNEL
7,916,529	AF02998US	United States	02/13/2009	03/29/2011	PIN DIODE DEVICE AND ARCHITECTURE
7,848,167	AF03000US	United States	10/21/2008	12/07/2010	APPARATUS AND METHOD FOR GENERATING WIDE-RANGE REGULATED SUPPLY VOLTAGES FOR A FLASH MEMORY
12/556,199	AF03004US	United States	09/09/2009		VARIED SILICON RICHNESS SILICON NITRIDE FORMATION WITH ATOMIC LAYER DEPOSITION FOR NON-VOLATILE MEMORY DEVICES
12/249,261	AF03005US	United States	10/10/2008		MULTI-LAYER GLOBAL BIT LINE APPROACH TO REDUCE RC
8,085,588	AF03012US	United States	04/30/2009	12/27/2011	SEMICONDUCTOR DEVICE AND CONTROL METHOD THEREOF
8,094,509	AF03014US	United States	10/30/2008	01/10/2012	APPARATUS AND METHOD FOR PLACEMENT OF BOOSTING CELL WITH ADAPTIVE BOOSTER SCHEME
8,379,443	AF03016US	United States	05/27/2009	02/19/2013	CHARGE RETENTION FOR FLASH MEMORY BY MANIPULATING THE PROGRAM DATA METHODOLOGY
8,255,777	AF03017US	United States	02/10/2009	08/28/2012	SYSTEMS AND METHODS FOR LOCATING ERROR BITS IN ENCODED DATA
12/253,207	AF03018US	United States	10/16/2008		SYSTEMS AND METHODS FOR DOWNLOADING CODE AND DATA INTO A SECURE NON-VOLATILE MEMORY
12/231,369	AF03019US	United States	09/02/2008		NARROW WORD LINE FORMATION BY SIDEWALL NISi FORMATION AND SELECTIVE ETCHING FOR 22NM AND BEYOND
8,633,074	AF03020US	United States	09/17/2008	01/21/2014	ELECTRICALLY PROGRAMMABLE AND ERASABLE MEMORY DEVICE AND METHOD OF FABRICATION THEREOF
14/153,900	AF03020US CON	United States	01/13/2014		ELECTRICALLY PROGRAMMABLE AND ERASEABLE MEMORY DEVICE
8,735,960	AF03021US	United States	11/17/2008	05/27/2014	HIGH ULTRA VIOLET ABSORBANCE OXYNITRIDE FILM FOR IMPROVED LINE-TO-LINE LEAKAGE, SCALABILITY, AND DATA RETENTION IN FLASH MEMORY DEVICE
12/286,149	AF03022US	United States	09/29/2008		RUTHENIUM INTERCONNECT WITH HIGH ASPECT RATIO CONTACT AND METHOD OF FABRICATION THEREOF
7,985,674	AF03023US	United States	11/05/2008	07/26/2011	SiH4 SOAK FOR LOW HYDROGEN SiN DEPOSITION TO IMPROVE FLASH MEMEORY DEVICE PERFORMANCE
8,309,455	AF03023US DIV	United States	06/08/1999		SiH4 SOAK FOR LOW HYDROGEN SiN DEPOSITION TO IMPROVE FLASH MEMEORY DEVICE PERFORMANCE

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PATENT OR APPL NO.	SPANSON REFERENCE NO.	COUNTRY	FILING DATE	ISSUE DATE	TITLE
09/327,419	AF03023US DIV	United States	06/21/2011	11/13/2012	NON-VOLATILE TRENCH SEMICONDUCTOR DEVICE
8,391,070	AF03031US	United States	12/02/2008	03/05/2013	MOVING VERIFY PROGRAMMING TECHNIQUE FOR FLASH MEMORY DEVICES
5,679,599	AF03032US	United States	06/22/1995	10/21/1997	ISOLATION USING SELF ALIGNED TRENCH FORMATION AND CONVENTIONAL LOCOS
7,995,386	AF03034US	United States	11/21/2008	08/09/2011	APPLYING NEGATIVE GATE VOLTAGE TO WORDLINES ADJACENT TO WORLDLINE ASSOCIATED WITH READ OR VERIFY TO REDUCE ADJACENT WORLDLINE DISTURB
7,821,840	AF03035US	United States	11/24/2008	10/26/2010	MULTI-PHASE PROGRAMMING OF MULTI-LEVEL MEMORY
7,935,596	AF03053US	United States	12/22/2008	05/03/2011	HTO OFFSET AND BL TRENCH PROCESS FOR MEMORY DEVICE TO IMPROVE DEVICE PERFORMANCE
8,330,209	AF03053US DIV	United States	03/23/2011	12/11/2012	HTO OFFSET AND BL TRENCH PROCESS FOR MEMORY DEVICE TO IMPROVE DEVICE PERFORMANCE
8,653,581	AF03054US	United States	12/22/2008	02/18/2014	HTO OFFSET FOR LONG EFFECTIVE BETTER DEVICE PERFORMANCE
14/109,157	AF03054US DIV	United States	12/17/2013		HTO OFFSET FOR LONG EFFECTIVE BETTER DEVICE PERFORMANCE
7,943,983	AF03055US	United States	12/22/2008	05/17/2011	HTO OFFSET SPACER AND OFF PROCESS TO DEFINE INVENTION
12/390,550	AF03064US	United States	02/23/2009		ADVANCED WORDLINE DISTURB REDUCTION USING BORN/INDIUM IMPLANT
8,067,314	AF03073US	United States	04/15/2009	11/29/2011	GATE TRIM PROCESS USING EITHER WET ETCH OR DRY ETCH APPROACH TO TARGET CD FOR SELECTED TRANSISTORS
8,409,994	AF03073US DIV	United States	10/21/2011	04/02/2013	GATE TRIM PROCESS USING EITHER WET ETCH OR DRY ETCH APPROACH TO TARGET CD FOR SELECTED TRANSISTORS
8,296,626	AF03091US	United States	11/07/2008	10/23/2012	ERROR CORRECTION FOR FLASH MEMORY
13/616,379	AF03091US CON	United States	09/14/2012		ERROR CORRECTION FOR FLASH MEMORY
12/433,159	AF03093US	United States	04/30/2009		DIRECT POINTER ACCESS AND XIP REDIRECTOR FOR EMULATION OF MEMORY-MAPPED DEVICES
8,076,199	AF03099US	United States	02/13/2009	12/13/2011	METHOD AND DEVICE EMPLOYING POLYSILICON SCALING
8,637,918	AF03099US DIV	United States	11/10/2011	01/28/2014	METHOD AND DEVICE EMPLOYING POLYSILICON SCALING
7,951,704	AF03100US CIP	United States	07/30/2009	05/31/2011	MEMORY DVICE PERIPHERAL INTERCONNECTS AND METHOD OF MANUFACTURING
8,441,041	AF03100US CIP DIV	United States	11/10/2010	05/14/2013	MEMORY DEVICE PERIPHERAL INTERCONNECTS
8,232,515	AF03113US	United States	05/27/2009	07/31/2012	IMAGING DEVICE
8,436,289	AF03113US CIP	United States	07/28/2010	05/07/2013	SYSTEM AND METHOD FOR DETECTING PARTICLES WITH A SEMICONDUCTOR DEVICE
8,748,800	AF03113US CIP	United States	03/05/2013	06/10/2014	A CHARGE STORAGE DEVICE FOR DETECTING ALPHA PARTICLES (as amended)
8,803,066	AF03113US CON	United States	07/24/2012	08/12/2014	IMAGING DEVICE
61/060,001	AF03113US PROV	United States	06/09/2008		IMAGING DEVICE
61/060,002	AF03114US	United States	06/09/2008		IMAGING DEVICE
8,680,671	AF03135US	United States	01/28/2009	03/25/2014	SELF-ALIGNED DOUBLE PATTERNING FOR MEMORY AND OTHER MICROELECTRONIC DEVICES
14/204,373	AF03135US CON	United States	03/11/2014		SELF-ALIGNED DOUBLE PATTERNING FOR MEMORY AND OTHER MICROELECTRONIC DEVICES
13/781,396	AF03137US	United States	02/28/2013		NON-VOLATILE MEMORY BASED RAM
8,357,563	AF03209US	United States	08/10/2010	01/22/2013	STITCH BUMP STACKING DESIGN FOR OVERALL PACKAGE SIZE REDUCTION FOR MULTIPLE STACK
8,680,686	AF03219US	United States	06/29/2010	03/25/2014	METHOD AND SYSTEM FOR THINK MULTI CHIP STACK PACKAGE WITH FILM ON WIRE AND COPPER WIRE
8,617,983	AF03634US CON2	United States	09/10/2012	12/31/2013	LOCAL INTERCONNECT HAVING INCREASED MISALIGNMENT TOLERANCE
6,794,248	AF04000US	United States	10/25/2002	09/21/2004	METHOD OF FABRICATING SEMICONDUCTOR MEMORY DEVICE AND SEMICONDUCTOR MEMORY DEVICE DRIVER
7,189,659	AF04007US	United States	11/13/2003	03/13/2007	Method for fabricating a semiconductor device
7,063,991	AF04009KR	United States	07/28/2004	06/20/2006	METHODS OF DETERMINING CHARACTERISTICS OF DOPED REGIONS ON DEVICE WAFERS, AND SYSTEM FOR ACCOMPLISHING SAME
7,410,857	AF04010US	United States	08/29/2003	08/12/2008	SEMICONDUCTOR MEMORY DEVICE AND MANUFACTURING METHOD THEREOF
8,116,142	AF04010US DIV	United States	09/06/2005	02/14/2012	METHOD AND CIRCUIT FOR ERASING A NON-VOLATILE MEMORY CELL
6,329,257	AF04016JP	United States	12/19/1997	12/11/2001	METHOD FOR LATERALLY PEAKED SOURCE DURING PROFILES FOR BETTER ERASE CONTROL IN FLASH MEMORY DEVICES
11/595,309	AF04017US	United States	11/09/2006		NROM STORAGE DEVICES BASED ON RESONANT TUNNELING
11/595,426	AF04018US	United States	11/09/2006		NON-VOLATILE MEMORY ON RESONANT TUNNELING DEVICES
11/595,724	AF04019US	United States	11/09/2006		SRAM CIRCUIT HAVING A SONOS-BASED NAND DEVICE
7,515,478	AF04021US	United States	08/20/2007	04/07/2009	CMOS LOGIC COMPATIBLE NON-VOLATILE MEMORY CELL STRUCTURE, OPERATION, AND ARRAY CONFIGURATION
6,477,083	AF04022US	United States	10/11/2000	11/05/2002	BANK SELECTOR CIRCUIT FOR A SIMULTANEOUS OPERATION FLASH MEMORY DEVICE WITH A FLEXIBLE BANK PARTITION ARCHITECTURE
61/195,743	AF04023	United States	10/10/2008		SENONE SCORING UNIT FOR SPEECH RECOGNITION
13/123,698	AF04028US	United States	10/07/2009		REAL-TIME DATA PATTERN ANALYSIS SYSTEM AND METHOD OF OPERATION THEREOF
6,826,107	AF04029JP	United States	08/01/2002	11/30/2004	HIGH VOLTAGE INSERTION IN FLASH MEMORY CARDS
8,327,052	AF04030TW	United States	12/23/2009	12/04/2012	VARIABLE READ LATENCY ON A SERIAL MEMORY BUS
11/251,068	AF04031US	United States	10/14/2005		NON-VOLATILE MEMORY AND SRAM BASED ON RESONANT TUNNELING DEVICES
11/595,038	AF04032US	United States	11/09/2006		SONOS-BASED NAND DEVICES BASED ON RESONANT TUNNELING
11/595,237	AF04033US	United States	11/09/2006		SRAM DEVICES BASED ON RESONANT TUNNELING
60/718,089	AF04034JP	United States	09/16/2005		NON-VOLATILE MEMORY AND PSEUDO-SRAM BASED ON RESONANT TUNNELING CONCEPT

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13/490,124	AF04035US	United States	06/06/2012		ACOUSTIC PROCESSING UNIT INTERFACE
8,924,453	AF04036US	United States	06/06/2012	12/30/2014	ARITHMETIC LOGIC UNIT ARCHITECTURE
14/048,076	AF04041JP	United States	10/08/2013		METHODS CIRCUITS APPARATUSES AND SYSTEMS FOR PROVIDING CURRENT TO A NON-VOLATILE MEMORY ARRAY AND NON-VOLATILE MEMORY DEVICES PRODUCED ACCORDINGLY
11/764,736	AF04042TW	United States	06/18/2007		CMOS COMPATIBLE SINGLE-POLY NON-VOLATILE MEMORY
14/073,914	AF04045DE	United States	11/07/2013		METHODS CIRCUITS APPARATUSES AND SYSTEMS FOR SENSING A LOGICAL STATE OF A NON-VOLATILE MEMORY CELL AND NON-VOLATILE MEMORY DEVICES PRODUCED ACCORDINGLY
8,208,300	AF04049US	United States	01/08/2009	08/26/2012	NON-VOLATILE MEMORY CELL WITH INJECTOR
7,415,318	AF04051JP	United States	10/10/2003	08/19/2008	METHOD AND APPARATUS FOR MANUFACTURING SEMICONDUCTOR DEVICE
7,253,046	AF04052TW	United States	08/29/2003	08/07/2007	SEMICONDUCTOR MEMORY DEVICE AND MANUFACTURING METHOD THEREOF
13/769,403	AF04053JP	United States	02/18/2013		APPARATUS AND METHODS TO REDUCE BIT LINE DISTURBS
8,236,693	AF04055US	United States	05/15/2007	08/07/2012	METHODS OF FORMING SILICIDES OF DIFFERENT THICKNESSES ON DIFFERENT STRUCTURES
8,915,775	AF04056US	United States	04/24/2007	12/23/2014	EXHAUST SYSTEM
7,884,630	AF04057US	United States	03/13/2008	02/08/2011	IC CARRIER, IC SOCKET AND METHOD FOR TESTING IC DEVICE
8,026,169	AF04058US	United States	11/06/2006	09/27/2011	CU ANNEALING FOR IMPROVED DATA RETENTION IN FLASH MEMORY DEVICES
8,928,397	AF04059US	United States	08/01/2012	01/06/2015	SEMICONDUCTOR DEVICE AND VOLTAGE DIVIDER
8,345,483	AF04061US	United States	01/21/2011	01/01/2013	SYSTEM AND METHOD FOR ADDRESSING THRESHOLD VOLTAGE SHIFTS OF MEMORY CELLS IN AN ELECTRONIC PRODUCT
12/034,410	AF04062US	United States	02/20/2008		DEVICE AND METHOD FOR PREVENTING LOST SYNCHRONIZATION
12/213,871	AF04063US	United States	06/25/2008		SIMULATION OF PROGRAM EXECUTION TO DETECT PROBLEM SUCH AS DEADLOCK
7,125,763	AMD-E306	United States	06/19/2001	10/24/2006	SILICIDED BURIED BITLINE PROCESS FOR A NON-VOLATILE MEMORY CELL
5,468,981	B001US	United States	09/01/1994	11/21/1995	A SELF-ALIGNED BURIED CHANNEL/JUNCTION STACKED GATE FLASH MEMORY CELL
08/764,735	B001US CON	United States	12/06/1996		A SELF-ALIGNED BURIED CHANNEL/JUNCTION STACKED GATE FLASH MEMORY CELL
08/451,293	B001US DIV	United States	05/26/1995		A SELF-ALIGNED BURIED CHANNEL/JUNCTION STACKED GATE FLASH MEMORY CELL
5,574,685	B002US	United States	09/01/1994	11/12/1996	A Self-Aligned Buried Channel/Junction Stacked Gate Flash Memory Cell
08/451,897	B002US DIV	United States	05/22/1995		A SELF-ALIGNED BURIED CHANNEL/JUNCTION STACKED GATE FLASH MEMORY CELL
08/342,174	B011/2097US	United States	11/18/1994		NITRIDE ETCH PROCESS WITH CRITICAL DIMENSION (CD) GAIN
6,593,245	B011/2097US CON	United States	08/01/1996	07/15/2003	SILICON NITRIDE ETCH PROCESS WITH CRITICAL DIMENSION GAIN
5,485,423	B012US	United States	10/11/1994	01/16/1996	METHOD FOR ELIMINATION OF CYCLING INDUCED ELECTRON TRAPPING IN THE TUNNELING OXIDE OF 5V ONLY FLASH EPROMS
5,534,731	B015/2104US	United States	10/28/1994	07/09/1996	LAYERED LOW DIELECTRIC CONSTANT TECHNOLOGY
5,693,566	B015/2104US DIV	United States	06/02/1995	12/02/1997	LAYERED LOW DIELECTRIC CONSTANT TECHNOLOGY
5,726,920	B020US	United States	09/29/1995	03/10/1998	WATCHDOG SYSTEM OF HAVING DIFFERENTIATING MEANS FOR USE IN MONITORING OF SEMICONDUCTOR WAFER TESTING LINE
5,656,521	B023US	United States	01/12/1995	08/12/1997	METHOD OF ERASING UPROM TRANSISTORS
5,481,494	B037US	United States	12/22/1994	01/02/1996	TIGHTENING VT DISTRIBUTION OF 5V ONLY FLASH EPROM BY RECONSTRUCTING CONSTANT ERASE BIAS CONDITION
5,491,657	B038US	United States	02/24/1995	02/13/1996	METHODS FOR BULK (OR BYTE) CHARGING & DISCHARGING AN ARRAY OF FLASH EEPROM MEMORY CELLS
5,550,405	B047US	United States	12/21/1994	08/27/1996	NOVEL PROCESSING TECHNIQUES FOR ACHIEVING PRODUCTION WORTHY LOW DIELECTRIC LOW INTERCONNECT RESISTANCE AND HIGH PERFORMANCE
5,965,934	B047US CON	United States	07/22/1996	10/12/1999	NOVEL PROCESSING TECHNIQUES FOR ACHIEVING PRODUCTION WORTHY, LOW DIELECTRIC, LOW INTERCONNECT RESISTANCE AND HIGH PERFORMANCE ICS
5,679,608	B047US DIV	United States	06/05/1995	10/21/1997	NOVEL PROCESSING TECHNIQUES FOR ACHIEVING PRODUCTION WORTHY LOW DIELECTRIC LOW INTERCONNECT RESISTANCE AND HIGH PERFORMANCE
5,482,881	B052US	United States	03/14/1995	01/09/1996	FLASH EEPROM MEMORY WITH REDUCED COLUMN LEAKAGE CURRENT AND METHOD THEREFOR
5,652,447	B052US CON	United States	07/22/1996	07/29/1997	FLASH EEPROM MEMORY WITH REDUCED COLUMN LEAKAGE CURRENT AND METHOD THEREFOR
08/465,069	B052US DIV	United States	06/05/1995		FLASH EEPROM MEMORY WITH REDUCED COLUMN LEAKAGE CURRENT AND METHOD THEREFOR
5,617,357	B053/2124US	United States	04/07/1995	04/01/1997	FLASH EEPROM MEMORY WITH IMPROVED DISCHARGE SPEED USING SUBSTRATE BIAS AND METHOD THEREFOR
5,708,588	B053/2124US DIV	United States	06/05/1995	01/13/1998	FLASH EEPROM MEMORY WITH IMPROVED DISCHARGED SPEED USING SUBSTRATE BIAS AND METHOD THEREFOR
5,680,345	B055US	United States	06/06/1995	10/21/1997	NONVOLATILE MEMORY CELL WITH VERTICAL GATE OVERLAP AND ZERO BIRDS BEAK
5,661,055	B055US DIV1	United States	06/07/1995	08/26/1997	METHOD OF MAKING NONVOLATILE MEMORY CELL WITH VERTICAL GATE OVERLAP AND ZERO BIRD'S BEAKS
6,248,629	B090US	United States	03/18/1998	06/19/2001	PROCESS FOR FABRICATING A FLASH MEMORY DEVICE
08/480,876	B091/2143US	United States	06/07/1995		SIMPLIFIED PROCESS FOR FABRICATING FLASH EEPROM CELLS
5,776,811	B091/2143US DIV	United States	01/04/1996	07/07/1998	SIMPLIFIED PROCESS FOR FABRICATING FLASH EEPROM CELLS
5,945,705	B100US	United States	08/01/1995	08/31/1999	THREE-DIMENSIONAL NON-VOLATILE MEMORY
6,043,122	B100US DIV	United States	08/01/1995	03/28/2000	THREE-DIMENSIONAL NON-VOLATILE MEMORY
5,552,331	B111US	United States	07/11/1995	09/03/1996	PROCESS FOR SELF-ALIGNED SOURCE FOR HIGH DENSITY MEMORY
08/440,046	B117US	United States	05/12/1995		SYSTEM FOR A CONSTANT FIELD ERASURE IN A FLASH EPROM
5,629,893	B117US CON1	United States	04/18/1996	05/13/1997	SYSTEM FOR A CONSTANT FIELD ERASURE IN A FLASH EPROM

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PATENT OR APPL NO.	SPANSON REFERENCE NO.	COUNTRY	FILING DATE	ISSUE DATE	TITLE
5,805,502	B117US CON2	United States	02/04/1997	09/08/1998	SYSTEM FOR A CONSTANT FIELD ERASURE IN A FLASH EPROM
5,596,531	B121/2203US	United States	05/25/1995	01/21/1997	A METHOD FOR DECREASING THE DISCHARGE TIME OF A FLASH EPROM CELL NORDHEIM DISCHARGED OPERATION
5,629,892	B128US	United States	10/16/1995	05/13/1997	A FLASH EEPROM MEMORY WITH SEPARATE REFERENCE ARRAY
5,553,018	B129/2219US	United States	06/07/1995	09/03/1996	NON VOLATILE MEMORY CELL FORMED USING SELF ALIGNED SOURCE IMPLANT
5,656,513	B129/2219US DIV	United States	06/07/1995	08/12/1997	NONVOLATILE MEMORY CELL FORMED USING SELF-ALIGNED SOURCE IMPLANT
5,590,076	B132US	United States	06/21/1995	12/31/1996	CHANNEL HOT CARRIER PAGE WRITE
08/751,455	B132US CON	United States	11/18/1996		CHANNEL HOT CARRIER PAGE WRITE
5,579,261	B137US	United States	04/21/1995	11/26/1996	REDUCED COLUMN LEAKAGE DURING PROGRAMMING FOR A FLASH MEMORY ARRAY
5,650,964	B153/2241US	United States	06/07/1995	07/22/1997	METHOD OF INHIBITING DEGRADATION OF ULTRA SHORT CHANNEL CHARGE-CARRYING DEVICES DURING DISCHARGE
5,907,561	B169/2255US	United States	12/17/1997	05/25/1999	METHOD TO IMPROVE TESTING SPEED OF MEMORY
5,814,853	B192US	United States	01/22/1996	09/29/1998	SOURCELESS FLOATING GATE MEMORY DEVICE AND METHOD OF STORING DATA
5,789,295	B215US	United States	11/17/1995	08/04/1998	METHOD OF ELIMINATING OR REDUCING POLY 1 OXIDATION AT STACKED GATE EDGE IN FLASH EPROM PROCESS
5,608,672	B216US	United States	09/26/1995	03/04/1997	CORRECTION METHOD LEADING TO A UNIFORM THRESHOLD VOLTAGE DISTRIBUTION FOR A FLASH EPROM
5,831,901	B222US	United States	11/08/1996	11/03/1998	A METHOD OF PROGRAMMING A MEMORY CELL TO CONTAIN MULTIPLE VALUES
5,981,364	B225US	United States	09/30/1998	11/09/1999	METHOD OF FORMING A SILICON GATE TO PRODUCE SILICON DEVICES WITH IMPROVED PERFORMANCE
5,869,385	B226US	United States	12/08/1995	02/09/1999	SELECTIVELY OXIDIZED FIELD OXIDE REGION
09/196,105	B226US DIV	United States	11/20/1998		SELECTIVELY OXIDIZED FIELD OXIDE REGION
5,638,326	B232US	United States	04/05/1996	06/10/1997	PARALLEL PAGE BUFFER VERIFY OR READ OF CELLS ON A WORD LINE USING A SIGNAL FROM A REFERENCE CELL IN A FLASH MEMORY DEVICE
5,923,063	B238US	United States	02/19/1998	07/13/1999	DOUBLE DENSITY V NONVOLATILE MEMORY CELL
5,724,284	B247US	United States	06/24/1996	03/03/1998	A MULTI-LEVEL FLASH SHIFT REGISTER PAGE BUFFER
08/668,795	B247US	United States	06/24/1996		A METHOD FOR DOUBLE DENSITY FLASH EPROM WITH PAGE MODE PROGRAM AND READ
5,754,475	B247US CON	United States	06/27/1997	05/19/1998	A BIT LINE DISCHARGE METHOD FOR READING A MULTIPLE BITS-PER-CELL FLASH EPROM
5,712,815	B248US	United States	04/22/1996	01/27/1998	A METHOD FOR PAGE MODE PROGRAMMING MULTI-DENSITY FLASH EPROM
5,763,307	B250US	United States	11/08/1996	06/09/1998	A BLOCK SELECT TRANSISTOR AND METHOD OF FABRICATION
5,680,348	B255US	United States	12/01/1995	10/21/1997	POWER SUPPLY INDEPENDENT CURRENT SOURCE FOR FLASH EPROM ERASE
08/559,705	B257US	United States	02/15/1996		LOW SUPPLY VOLTAGE NEGATIVE CHARGE PUMP
5,973,979	B257US CON	United States	12/26/1996	10/26/1999	LOW SUPPLY VOLTAGE NEGATIVE CHARGE PUMP
5,708,387	B258US	United States	11/17/1995	01/13/1998	A FAST 3 STATE BOOSTER CIRCUIT
5,644,531	B260US	United States	11/01/1995	07/01/1997	A NEW PROGRAM ALGORITHM FOR LOW VOLTAGE (3V) SINGLE POWER SUPPLY FLASH MEMORIES
5,642,311	B261US	United States	10/24/1995	06/24/1997	A PROGRAM ERASE ALGORITHM THAT GREATLY REDUCES UNDER ERASE IN FLASH MEMORIES
5,650,966	B262US	United States	11/01/1995	07/22/1997	TEMPERATURE COMPENSATED REFERENCE FOR OVER ERASE CORRECTION CIRCUITRY
5,939,763	B277US	United States	09/05/1996	08/17/1999	AN IMPROVED ULTRATHIN OXYNITRIDE STRUCTURE AND PROCESS FOR VLSI APPLICATIONS
6,245,689	B277US DIV	United States	09/08/1998	06/12/2001	NOVEL PROCESS FOR RELIABLE ULTRATHIN OXYNITRIDE FORMATION
5,854,108	B287US	United States	06/04/1996	12/29/1998	A METHOD AND SYSTEM FOR PROVIDING A DOUBLE DIFFUSE IMPLANT JUNCTION IN A VERY SHORT CHANNEL FLASH DEVICE
6,492,675	B291US	United States	01/16/1998	12/10/2002	FLASH MEMORY ARRAY WITH DUAL FUNCTION CONTROL LINES AND ASYMMETRICAL SOURCE AND DRAIN JUNCTIONS
6,744,668	B291US DIV	United States	09/03/2002	06/01/2004	FLASH MEMORY ARRAY WITH DUAL FUNCTION CONTROL LINES AND ASYMMETRICAL SOURCE AND DRAIN JUNCTIONS
5,675,537	B315US	United States	08/22/1996	10/07/1997	ERASE METHOD FOR PAGE MODE MULTIPLE-BITS-PER-CELL FLASH EEPROM
5,859,796	B319US	United States	12/16/1997	01/12/1999	PROGRAMMING OF MEMORY CELLS USING CONNECTED FLOATING GATE ANALOG REFERENCE CELL
5,747,882	C018196US	United States	11/07/1996	05/05/1998	METHOD OF PREVENTING TUNGSTEN SILICIDE LIFTING FROM UNDERNEATH POLYSILICON FILM
5,818,082	C019196US	United States	03/04/1996	10/06/1998	E2PROM DEVICE HAVING ERASE GATE IN OXIDE ISOLATION REGION IN SHALLOW TRENCH AND METHOD OF MANUFACTURE THEREOF
5,751,633	C023196US	United States	05/24/1996	05/12/1998	METHOD OF SCREENING HOT TEMPERATURE ERASE REJECTS AT ROOM TEMPERATURE
5,870,407	C024196US	United States	05/24/1996	02/09/1999	METHOD OF SCREENING MEMORY CELLS AT ROOM TEMPERATURE THAT WOULD BE REJECTED DURING HOT TEMPERATURE PROGRAMMING TESTS
5,856,946	C051296US	United States	06/17/1998	01/05/1999	MEMORY CELL PROGRAMMING WITH CONTROLLED CURRENT INJECTION
5,852,582	C053296US	United States	02/18/1997	12/22/1998	NON-VOLATILE STORAGE DEVICE REFRESH TIME DETECTOR METHODS AND SORT FLOW TO ACHIEVE TIGHT FLASH MEMORY ARRAY PROGRAM/ERASE SPEED AND INSENSITIVE TO PROCESS VARIATIONS
5,793,249	C054296US	United States	09/30/1996	08/11/1998	HIGH VOLTAGE CMOS LEVEL SHIFTER
5,821,800	C061296US	United States	02/11/1997	10/13/1998	BIAS SCHEME OF PROGRAM INHIBIT FOR RANDOM PROGRAMMING IN NAND FLASH MEMORY
5,715,194	C071296US	United States	07/24/1996	02/03/1998	

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PATENT OR APPL NO.	SPANSON REFERENCE NO.	COUNTRY	FILING DATE	ISSUE DATE	TITLE
5,793,677	C072296US	United States	06/17/1996	08/11/1998	USING FLOATING GATE DEVICES AS SELECT GATE DEVICES FOR NAND FLASH MEMORY AND ITS BIAS SCHEME
6,271,151	C126496US	United States	06/30/1997	08/07/2001	METHOD AND APPARATUS FOR CONTROLLING THE THICKNESS OF A GATE OXIDE IN A SEMICONDUCTOR MANUFACTURING PROCESS
09/756,123	C126496US CON	United States	01/09/2001		METHOD AND APPARATUS FOR CONTROLLING THE THICKNESS OF A GATE OXIDE IN A SEMICONDUCTOR MANUFACTURING PROCESS
6,187,092	C126496US DIV1	United States	03/03/1998	02/13/2001	METHOD AND APPARATUS FOR CONTROLLING THE THICKNESS OF A GATE OXIDE IN A SEMICONDUCTOR MANUFACTURING PROCESS
5,912,489	C141496US	United States	09/30/1997	06/15/1999	A DUAL SOURCE SIDE POLYSILICON SELECT GATE STRUCTURE AND PROGRAMMING METHOD UTILIZING SINGLE TUNNEL OXIDE FOR NAND ARRAY FLASH MEMORY
5,999,452	C141496US DIV1	United States	04/21/1998	12/07/1999	A DUAL SOURCE SIDE POLYSILICON SELECT GATE STRUCTURE AND PROGRAMMING METHOD UTILIZING SINGLE TUNNEL OXIDE FOR NAND ARRAY FLASH MEMORY
6,266,275	C141496US DIV2	United States	09/30/1999	07/24/2001	A DUAL SOURCE SIDE POLYSILICON SELECT GATE STRUCTURE AND PROGRAMMING METHOD UTILIZING SINGLE TUNNEL OXIDE FOR NAND ARRAY FLASH MEMORY
5,801,579	C144496US	United States	02/28/1997	09/01/1998	HIGH VOLTAGE NMOS PASS GATE FOR INTEGRATED CIRCUIT WITH HIGH VOLTAGE GENERATOR
5,852,576	C144496US CIP1	United States	10/06/1997	12/22/1998	HIGH VOLTAGE NMOS PASS GATE FOR INTEGRATED CIRCUIT WITH HIGH VOLTAGE GENERATOR AND FLASH NON-VOLATILE MEMORY DEVICE HAVING THE PASS GATE
5,805,499	C157596US	United States	02/28/1997	09/08/1998	CHANNEL HOT-CARRIER PAGE WRITE FOR NAND APPLICATIONS
5,889,697	C171596US	United States	10/08/1997	03/30/1999	MEMORY CELL FOR STORING AT LEAST THREE LOGIC STATES
5,796,651	C184596US	United States	05/19/1997	08/18/1998	A MEMORY DEVICE USING A REDUCED WORD LINE VOLTAGE DURING READ OPERATIONS AND A METHOD OF ACCESSING SUCH A MEMORY DEVICE
6,163,478	C191596US	United States	10/19/1999	12/19/2000	COMMON FLASH INTERFACE IMPLEMENTATION FOR A SIMULTANEOUS OPERATION FLASH MEMORY DEVICE
5,790,456	C194596US	United States	05/09/1997	08/04/1998	MULTIPLE BITS-PER-CELL FLASH EPROM MEMORY CELL WITH WIDE PROGRAM AND ERASE VT WINDOW
5,933,730	C195596US	United States	03/07/1997	08/03/1999	METHOD OF SPACER FORMATION AND SOURCE PROTECTION AFTER SELF-ALIGNED SOURCE FORMED AND A DEVICE PROVIDED BY SUCH A METHOD
6,160,317	C195596US DIV1	United States	06/18/1999	12/12/2000	METHOD OF SPACER FORMATION AND SOURCE PROTECTION AFTER SELF-ALIGNED SOURCE FORMED AND A DEVICE PROVIDED BY SUCH A METHOD
5,867,430	C196596US	United States	12/20/1996	02/02/1999	BANK ARCHITECTURE FOR A NON-VOLATILE MEMORY ENABLING SIMULTANEOUS READING AND WRITING
5,795,627	C250696US	United States	02/14/1997	08/18/1998	METHOD FOR ANNEALING DAMAGES SEMICONDUCTOR REGIONS ALLOWING FOR ENHANCED OXIDE GROWTH
5,844,840	C253696US	United States	08/19/1997	12/01/1998	HIGH VOLTAGE NMOS PASS GATE HAVING SUPPLY RANGE, AREA, AND SPEED ADVANTAGES
5,909,396	C253696US DIV1	United States	08/03/1998	06/01/1999	HIGH VOLTAGE NMOS PASS GATE HAVING SUPPLY RANGE, AREA, AND SPEED ADVANTAGES
5,889,302	C264696US	United States	04/21/1997	03/30/1999	MULTILAYER FLOATING GATE FIELD EFFECT TRANSISTOR STRUCTURE
5,979,660	C293197US	United States	06/05/1997	11/09/1999	TUBE FOR FLASH MINIATURE CARD
6,185,630	C350197US	United States	12/18/1997	02/06/2001	DEVICE INITIALIZING SYSTEM WITH PROGRAMMABLE ARRAY LOGIC CONFIGURED TO CAUSE NON-VOLATILE MEMORY TO OUTPUT ADDRESS AND DATA INFORMATION TO THE DEVICE IN A PRESCRIBED SEQUENCE
08/993,570	C369297US	United States	12/18/1997		BIASING METHOD AND STRUCTURE FOR REDUCING BAND-TO-BAND AND/OR AVALANCHE CURRENTS DURING THE ERASE OF FLASH MEMORY DEVICES
6,236,596	C369297US CON	United States	12/15/1999	05/22/2001	BIASING METHOD AND STRUCTURE FOR REDUCING BAND-TO-BAND AND/OR AVALANCHE CURRENTS DURING THE ERASE OF FLASH MEMORY DEVICES
5,963,824	C412397US	United States	07/09/1997	10/05/1999	METHOD AND APPARATUS FOR A SEMICONDUCTOR DEVICE WITH ADJUSTABLE THRESHOLD VOLTAGE
6,479,858	C412397US DIV	United States	05/07/1999	11/12/2002	METHOD AND APPARATUS FOR A SEMICONDUCTOR DEVICE WITH ADJUSTABLE THRESHOLD VOLTAGE
6,211,020	C521397US	United States	10/22/1998	04/03/2001	PROCESS FOR FABRICATING A COMMON SOURCE REGION IN MEMORY DEVICES
5,940,735	C526397US	United States	08/25/1997	08/17/1999	REDUCTION OF CHARGE LOSS IN NONVOLATILE MEMORY CELLS BY PHOSPHOROUS IMPLANTATION INTO PECVD NITRIDE/OXYNITRIDE FILMS
6,285,054	C553397US	United States	03/30/1998	09/04/2001	TRENCHED GATE NON-VOLATILE SEMICONDUCTOR DEVICE WITH THE SOURCE/DRAIN REGIONS SPACED FROM THE TRENCH BY SIDEWALL DOPINGS
6,764,904	C553397US DIV1	United States	07/31/2000	07/20/2004	TRENCHED GATE NON-VOLATILE SEMICONDUCTOR METHOD WITH THE SOURCE/DRAIN REGIONS SPACED FROM THE TRENCH BY SIDEWALL DOPINGS
6,225,659	C554397US	United States	03/30/1998	05/01/2001	TRENCHED GATE SEMICONDUCTOR DEVICE AND METHOD FOR LOW POWER APPLICATIONS
6,303,437	C554397US DIV1	United States	08/04/2000	10/16/2001	TRENCHED GATE NON-VOLATILE SEMICONDUCTOR DEVICE AND METHOD FOR LOW POWER APPLICATIONS WITH CORNER DOPING AND SIDEWALL DOPING
6,147,377	C555397US	United States	03/30/1998	11/14/2000	FULLY RECESSED SEMICONDUCTOR DEVICE
6,344,393	C555397US DIV	United States	07/20/2000	02/05/2002	FULLY RECESSED SEMICONDUCTOR DEVICE AND METHOD FOR LOW POWER OPERATIONS

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PATENT OR APPL NO.	SPANSION REFERENCE NO.	COUNTRY	FILING DATE	ISSUE DATE	TITLE
6,147,378	C557397US	United States	03/30/1998	11/14/2000	FULLY RECESSED SEMICONDUCTOR DEVICE AND METHOD FOR LOW POWER APPLICATIONS WITH SINGLE WRAP AROUND BURIED DRAIN REGION
6,225,161	C557397US DIV1	United States	12/22/1999	05/01/2001	FULLY RECESSED SEMICONDUCTOR DEVICE AND METHOD FOR LOW POWER APPLICATIONS WITH SINGLE WRAP AROUND BURIED DRAIN REGION
5,933,729	C560497US	United States	12/08/1997	08/03/1999	REDUCTION OF ONO FENCE DURING SELF-ALIGNED ETCH TO ELIMINATE POLY STRINGERS
6,232,646	C608497US	United States	05/20/1998	05/15/2001	SHALLOW TRENCH ISOLATION FILLED WITH THERMAL OXIDE
6,444,539	C608497US DIV1	United States	02/15/2001	09/03/2002	METHOD FOR PRODUCING A SHALLOW TRENCH ISOLATION FILLED WITH THERMAL OXIDE
6,555,867	C610497US	United States	12/16/1997	04/29/2003	FLASH MEMORY GATE COUPLING USING HSG POLYSILICON
6,808,988	C611497US	United States	02/05/1998	10/26/2004	METHOD FOR FORMING ISOLATION IN FLASH MEMORY WAFER
5,981,341	C612497US	United States	12/05/1997	11/09/1999	SIDEWALL SPACER FOR PROTECTING TUNNEL OXIDE DURING ISOLATION TRENCH FORMATION IN SELF ALIGNED FLASH
09/401,580	C612497US DIV1	United States	09/22/1999		SIDEWALL SPACER FOR PROTECTING TUNNEL OXIDE DURING ISOLATION TRENCH FORMATION IN SELF ALIGNED FLASH MEMORY CORE
6,249,036	C614497US	United States	03/18/1998	06/19/2001	STEPPER ALIGNMENT MARK FORMATION WITH DUAL FIELD OXIDE PROCESS
6,420,224	C614497US DIV	United States	04/16/2001	07/16/2002	STEPPER ALIGNMENT MARK FORMATION WITH DUAL FIELD OXIDE PROCESS
6,027,998	C617497US	United States	12/17/1997	02/22/2000	METHOD FOR FULLY PLANARIZED CONDUCTIVE LINE FOR A STACK GATE
6,002,160	C623497US	United States	12/12/1997	12/14/1999	A SEMICONDUCTOR ISOLATION PROCESS TO MINIMIZE WEAK OXIDE PROBLEMS
6,309,949	C623497US DIV1	United States	11/16/1999	10/30/2001	SEMICONDUCTOR ISOLATION PROCESS TO MINIMIZE WEAK OXIDE PROBLEMS
6,107,169	C625497US	United States	08/14/1998	08/22/2000	METHOD FOR FABRICATING A DOPED POLYSILICON FEATURE IN A SEMICONDUCTOR DEVICE
6,100,559	C626497US	United States	08/14/1998	08/08/2000	MULTIPURPOSE GRADED SILICON OXYNITRIDE CAP LAYER
6,306,758	C626497US DIV1	United States	05/10/2000	10/23/2001	MULTIPURPOSE GRADED SILICON OXYNITRIDE CAP LAYER
6,258,669	C627497US	United States	12/18/1997	07/10/2001	METHODS AND ARRANGEMENTS FOR IMPROVED FORMATION OF CONTROL AND FLOATING GATES IN NON-VOLATILE MEMORY SEMICONDUCTOR DEVICES
6,242,773	C628497US	United States	09/30/1998	06/05/2001	SELF-ALIGNING POLY 1 ONO DIELECTRIC
6,034,395	C629497US	United States	06/05/1998	03/07/2000	METHODS AND ARRANGEMENTS FOR REDUCING THE STEP HEIGHT IN STACKED GATE STRUCTURE WITHIN A SEMICONDUCTOR DEVICE
09/477,664	C629497US DIV1	United States	01/05/2000		METHODS AND ARRANGEMENTS FOR REDUCING THE STEP HEIGHT IN STACKED GATE STRUCTURE WITHIN A SEMICONDUCTOR DEVICE
6,579,778	C630497US	United States	08/08/2000	06/17/2003	SOURCE BUS FORMATION FOR A FLASH MEMORY USING SILICIDE
6,174,819	C634497US	United States	07/21/1998	01/16/2001	LOW TEMPERATURE PHOTORESIST REMOVAL FOR REWORK DURING METAL MASK FORMATION
6,163,049	C636497US	United States	10/13/1998	12/19/2000	METHOD OF FORMING A COMPOSITE INTERPOLY GATE DIELECTRIC
6,413,820	C636497US DIV1	United States	11/30/2000	07/02/2002	METHOD OF FORMING A COMPOSITE INTERPOLY GATE DIELECTRIC
6,063,662	C638497US	United States	12/18/1997	05/16/2000	METHODS FOR FORMING A CONTROL GATE APPARATUS IN NON-VOLATILE MEMORY SEMICONDUCTOR DEVICES
5,972,751	C640497US	United States	08/28/1998	10/26/1999	METHODS AND ARRANGEMENTS FOR INTRODUCING NITROGEN INTO A TUNNEL OXIDE IN A NON-VOLATILE SEMICONDUCTOR MEMORY DEVICE
6,252,276	C640497US DIV1	United States	08/19/1999	06/26/2001	NON-VOLATILE SEMICONDUCTOR MEMORY DEVICE INCLUDING ASSYMETRICALLY NITROGEN DOPED GATE OXIDE
6,001,713	C641497US	United States	09/16/1998	12/14/1999	METHODS FOR FORMING NITROGEN-RICH REGIONS IN A FLOATING GATE AND INTERPOLY DIELECTRIC LAYER IN A NON-VOLATILE SEMICONDUCTOR MEMORY DEVICE
6,251,717	C643497US	United States	09/30/1998	06/26/2001	VIAIBLE MEMORY CELL FORMED USING RAPID THERMAL ANNEALING
6,034,394	C644497US	United States	12/18/1997	03/07/2000	METHODS AND ARRANGEMENTS FOR FORMING A FLATING GATE IN NON-VOLATILE MEMORY SEMICONDUCTOR DEVICES
6,274,433	C644497US DIV1	United States	01/03/2000	08/14/2001	METHODS AND ARRANGEMENTS FOR FORMING A FLATING GATE IN NON-VOLATILE MEMORY SEMICONDUCTOR DEVICES
09/143,089	C645497US	United States	08/28/1998		METHODS AND ARRANGEMENTS FOR REDUCING FALSE PROGRAMMING IN NON-VOLATILE SEMICONDUCTOR MEMORY DEVICES
6,989,319	C645497US DIV	United States	11/24/2003	01/24/2006	METHODS FOR FORMING NITROGEN-RICH REGIONS IN NON-VOLATILE SEMICONDUCTOR MEMORY DEVICES
6,433,383	C646497US	United States	07/20/1999	08/13/2002	METHODS AND ARRANGEMENTS FOR FORMING A SINGLE INTERPOLY DIELECTRIC LAYER IN A SEMICONDUCTOR DEVICE
6,232,630	C650497US	United States	07/07/1999	05/15/2001	LIGHT FLOATING GATE DOPING TO IMPORVE TUNNEL OXIDE RELIABILITY
6,133,619	C651497US	United States	08/31/1998	10/17/2000	REDUCTION OF SILICON OXYNITRIDE FILM DELAMINATION IN INTEGRATED CIRCUIT INTER-LEVEL DIELECTRICS
6,124,640	C652497US	United States	08/31/1998	09/26/2000	SCALABLE AND RELIABLE INTEGRATED CIRCUIT INTER-LEVEL DIELECTRIC
6,211,074	C654497US	United States	05/12/1998	03/15/2001	METHODS AND ARRANGEMENTS FOR REDUCING STRESS AND PREVENTING CRACKING IN A SILICIDE LAYER
6,429,108	C655497US	United States	08/31/2000	08/06/2002	NON-VOLATILE MEMORY DEVICE WITH ENCAPSULATED TUNGSTEN GATE AND METHOD OF MAKING SAME

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PATENT OR APPL NO.	SPANSION REFERENCE NO.	COUNTRY	FILING DATE	ISSUE DATE	TITLE
6,346,467	C656497US	United States	08/28/2000	02/12/2002	METHOD OF MAKING TUNGSTEN GATE MOS TRANSISTOR AND MEMORY CELL BY ENCAPSULATING
10/059,119	C656497US DIV	United States	01/31/2002		METHOD OF MAKING TUNGSTEN GATE MOS TRANSISTOR AND MEMORY CELL BY ENCAPSULATING
6,436,850	C658497US	United States	08/31/2000	08/20/2002	METHOD OF DEGASSING LOW K DIELECTRIC FOR METAL DEPOSITION
6,060,741	C660497US	United States	09/16/1998	05/09/2000	STACKED GATE STRUCTURE FOR FLASH MEMORY APPLICATION
6,011,289	C661497US	United States	09/16/1998	01/04/2000	METAL OXIDE STACK FOR FLASH MEMORY APPLICATION
6,080,639	C663497US	United States	11/25/1998	06/27/2000	SEMICONDUCTOR DEVICE CONTAINING P-HDP INTERDIELECTRIC LAYER
5,973,353	C665497US	United States	12/18/1997	10/26/1999	METHODS AND ARRANGEMENTS FOR FORMING A TAPERED FLOATING GATE IN NON-VOLATILE MEMORY SEMICONDUCTOR DEVICES
6,159,860	C666497US	United States	07/17/1998	12/12/2000	METHOD FOR ETCHING LAYERS ON A SEMICONDUCTOR WAFER IN A SINGLE ETCHING CHAMBER
5,977,601	C667497US	United States	07/17/1998	11/02/1999	METHOD FOR ETCHING MEMORY GATE STACK USING THIN RESIST LAYER
6,383,939	C667497US DIV1	United States	08/17/1999	05/07/2002	METHOD FOR ETCHING MEMORY GATE STACK USING THIN RESIST LAYER
09/118,374	C668497US	United States	07/17/1998		METHOD FOR TRIMMING A PHOTORESIST PATTERN LINE FOR MEMORY GATE ETCHING
6,372,651	C668497US DIV	United States	04/06/1999	04/16/2002	METHOD FOR TRIMMING A PHOTORESIST PATTERN LINE FOR MEMORY GATE ETCHING
6,515,328	C672497US	United States	02/04/1999	02/04/2003	METHOD FOR ETCHING SILICON LAYERS ON A SEMICONDUCTOR SUBSTRATE IN A SINGLE STEP
09/684,780	C672497US DIV1	United States	10/10/2000		METHOD FOR ETCHING SILICON LAYERS ON A SEMICONDUCTOR SUBSTRATE IN A SINGLE STEP
6,159,794	C673497US	United States	05/12/1998	12/12/2000	METHODS FOR REMOVING SILICIDE RESIDUE IN A SEMICONDUCTOR DEVICE
6,074,956	C674497US	United States	05/12/1998	06/13/2000	METHODS FOR PREVENTING SILICIDE RESIDUE FORMATION IN A SEMICONDUCTOR DEVICE
6,110,779	C675497US	United States	07/17/1998	08/29/2000	METHOD AND STRUCTURE OF ETCHING A MEMORY CELL POLYSILICON GATE LAYER USING RESIST MASK AND ETCHED SILICON OXYNITRIDE
6,452,225	C675497US DIV1	United States	07/17/2000	09/17/2002	METHOD AND STRUCTURE OF ETCHING A MEMORY CELL POLYSILICON GATE LAYER USING RESIST MASK AND ETCHED SILICON OXYNITRIDE
5,948,703	C677497US	United States	06/08/1998	09/07/1999	METHOD OF SELF-LANDING GATE ETCHING TO PREVENT GATE OXIDE DAMAGE
09/168,988	C678497US	United States	10/09/1998		METHOD OF CONTROLLING THE SLOPE OF SIDEWALLS IN POLYSILICON
6,534,411	C679497US	United States	04/13/2000	03/18/2003	METHOD OF HIGH DENSITY PLASMA METAL ETCHING
6,072,191	C680497US	United States	12/16/1997	06/06/2000	INTERLEVEL DIELECTRIC THICKNESS MONITOR FOR COMPLEX SEMICONDUCTOR CHIPS
6,350,627	C680497US DIV	United States	04/13/2000	02/26/2002	INTERLEVEL DIELECTRIC THICKNESS MONITOR FOR COMPLEX SEMICONDUCTOR CHIPS
5,972,749	C686497US	United States	01/05/1998	10/26/1999	METHOD AND APPARATUS FOR PREVENTING P1 PUNCHTHROUGH
6,066,873	C686497US DIV1	United States	03/18/1999	05/23/2000	METHOD AND APPARATUS FOR PREVENTING P1 PUNCHTHROUGH
5,994,780	C687497US	United States	12/16/1997	11/30/1999	SEMICONDUCTOR DEVICE WITH MULTIPLE CONTACT SIZES
6,211,058	C687497US DIV1	United States	07/15/1999	04/03/2001	SEMICONDUCTOR DEVICE WITH MULTIPLE CONTACT SIZES
6,667,511	C690497US	United States	12/18/1997	12/23/2003	NOVEL NAND TYPE CORE CELL STRUCTURE AND CORRESPONDING PROCESS FOR HIGH DENSITY AND HIGH PERFORMANCE FLASH MEMORY DEVICE
6,316,293	C690497US DIV	United States	03/20/2000	11/13/2001	METHOD OF FORMING A NAND-TYPE FLASH MEMORY DEVICE HAVING A NON-STACKED SELECT GATE TRANSISTOR STRUCTURE
6,017,786	C692497US	United States	12/17/1997	01/25/2000	METHOD FOR FORMING A LOW BARRIER HEIGHT OXIDE LAYER ON A SILICON SUBSTRATE
6,166,439	C694497US	United States	12/30/1997	12/26/2000	A LOW DIELECTRIC CONSTANT MATERIAL AND METHOD OF APPLICATION TO ISOLATE CONDUCTIVE LINES
6,235,586	C695497US	United States	07/13/1999	05/22/2001	THIN FLOATING GATE AND CONDUCTIVE SELECT GATE IN SITU
6,001,688	C696497US	United States	12/08/1997	12/14/1999	POLY STRINGER CLEAN-UP FOR FLASH MEMORY STRUCTURES
6,159,795	C697497US	United States	07/02/1998	12/12/2000	LOW VOLTAGE JUNCTION AND HIGH VOLTAGE JUNCTION OPTIMIZATION FOR FLASH MEMORY
09/159,413	C697497US DIV	United States	09/23/1998		LOW VOLTAGE JUNCTION AND HIGH VOLTAGE JUNCTION OPTIMIZATION FOR FLASH MEMORY
6,346,737	C698497US	United States	07/02/1998	02/12/2002	SHALLOW TRENCH ISOLATION PROCESS PARTICULARLY SUITED FOR HIGH VOLTAGE CIRCUITS
6,046,085	C700497US	United States	12/08/1997	04/04/2000	ELIMINATION OF POLY STRINGER WITH STRAIGHT POLY PROFILE
6,509,232	C701497US	United States	10/01/2001	01/21/2003	FORMATION OF STI (SHALLOW TRENCH ISOLATION) STRUCTURES WITHIN CORE AND PERIPHERY AREAS OF FLASH MEMORY DEVICE
5,939,750	C704497US	United States	01/21/1998	08/17/1999	USE OF IMPLANTED IONS TO REDUCE OXIDE-NITRIDE-OXIDE (ONO) ETCH RESIDUE AND POLYSTRINGERS
6,221,768	C704497US DIV	United States	02/25/1999	04/24/2001	USE OF IMPLANTED IONS TO REDUCE OXIDE-NITRIDE-OXIDE (ONO) ETCH RESIDUE AND POLYSTRINGERS
6,063,666	C705497US	United States	06/12/1998	05/16/2000	RTCD OXIDE AND N2O ANNEAL FOR TOP OXIDE OF ONO FILM
5,981,339	C706497US	United States	03/20/1998	11/09/1999	NARROWER ERASE DISTRIBUTION FOR FLASH MEMORY BY SMALLER POLY GRAIN SIZE
6,140,246	C707497US	United States	12/18/1997	10/31/2000	IN SITU P DOPED AMORPHOUS SILICON BY NH3 TO FORM OXIDATION RESISTANT AND FINER GRAIN FLOATING GATES
5,994,239	C708497US	United States	12/18/1997	11/30/1999	MANUFACTURING PROCESS TO ELIMINATE POLYSTRINGERS IN HIGH DENSITY NAND-TYPE FLASH MEMORY DEVICE

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6,114,230	C709497US	United States	12/18/1997	09/05/2000	NITROGEN ION IMPLANTED AMORPHOUS SILICON TO PRODUCE OXIDATION RESISTANT AND FINER GRAIN POLYSILICON BASED FLOATING GATES
6,281,078	C710497US	United States	12/18/1997	08/28/2001	MANUFACTURING PROCESS TO ELIMINATE ONO FENCE MATERIAL IN HIGH DENSITY NAND-TYPE FLASH MEMORY DEVICES
6,157,572	C712497US	United States	05/27/1998	12/05/2000	METHOD FOR ERASING FLASH ELECTRICALLY ERASABLE PROGRAMMABLE READ-ONLY MEMORY (EEPROM)
5,875,130	C713497US	United States	05/27/1998	02/23/1999	METHOD FOR PROGRAMMING FLASH ELECTRICALLY ERASABLE PROGRAMMABLE READ-ONLY MEMORY (EEPROM)
6,052,310	C714497US	United States	08/12/1998	04/18/2000	METHOD FOR TIGHTENING ERASE THRESHOLD VOLTAGE DISTRIBUTION IN FLASH ELECTRICALLY ERASABLE PROGRAMMABLE READ-ONLY MEMORY (EEPROM)
6,134,146	C715497US	United States	10/05/1998	10/17/2000	WORDLINE DRIVER FOR FLASH ELECTRICALLY ERASABLE PROGRAMMABLE READ-ONLY MEMORY (EEPROM)
6,205,059	C718497US	United States	10/05/1998	03/20/2001	METHOD FOR ERASING FLASH ELECTRICALLY ERASABLE PROGRAMMABLE READ-ONLY MEMORY (EEPROM)
6,011,721	C719497US	United States	08/12/1998	01/04/2000	METHOD FOR SENSING STATE OF ERASURE OF FLASH ELECTRICALLY ERASABLE PROGRAMMABLE READ-ONLY MEMORY (EEPROM)
5,901,090	C720497US	United States	05/27/1998	05/04/1999	METHOD FOR ERASING FLASH ELECTRICALLY ERASABLE PROGRAMMABLE READ-ONLY MEMORY (EEPROM)
6,275,415	C721497US	United States	10/11/1999	08/14/2001	MULTIPLE BYTE CHANNEL HOT ELECTRON PORGRAMMING USING RAMPED GATE WITH SOURCE BIAS
09/872,708	C721497US DIV	United States	06/01/2001		MULTIPLE BYTE CHANNEL HOT ELECTRON PORGRAMMING USING RAMPED GATE AND SOURCE BIAS VOLTAGE
6,172,914	C722497US	United States	09/23/1999	01/09/2001	CONCURRENT ERASE VERIFY SCHEME FOR FLASH MEMORY APPLICATIONS
60/148,782	C723497	United States	08/13/1999		BIT BY BIT APDE VERIFY FOR FLASH MEMORY APPLICATIONS
6,122,198	C723497US	United States	10/05/1999	09/19/2000	BIT BY BIT APDE VERIFY FOR FLASH MEMORY APPLICATIONS
60/148,779	C725497	United States	08/01/2000	03/05/2003	CIRCUIT IMPLEMENTATION TO QUENCH BIT LINE LEAKAGE CURRENT IN PROGRAM AND AUTO PROGRAM DISTURB MODE IN FLASH EPROM USING RESISTOR SOURCE LOAD
6,046,932	C725497US	United States	10/13/1999	04/04/2000	CIRCUIT IMPLEMENTATION TO QUENCH BIT LINE LEAKAGE CURRENT IN PROGRAM AND AUTO PROGRAM DISTURB MODE IN FLASH EPROM USING RESISTOR SOURCE LOAD
6,103,602	C730497US	United States	12/17/1997	08/15/2000	METHOD AND SYSTEM FOR PROVIDING A DRAIN SIDE POCKET IMPLANT
09/542,587	C730497US DIV	United States	04/04/2000		METHOD AND SYSTEM FOR PROVIDING A DRAIN SIDE POCKET IMPLANT
5,949,718	C731497US	United States	12/17/1997	09/07/1999	METHOD AND SYSTEM FOR SELECTED SOURCE DURING READ AND PROGRAMMING OF FLASH MEMORY
6,188,101	C734497US	United States	01/14/1998	02/13/2001	FLASH EPROM CELL WITH REDUCED SHORT CHANNEL EFFECT AND METHOD FOR PROVIDING SAME
5,888,867	C735497US	United States	02/13/1998	03/30/1999	NON-UNIFORM THRESHOLD VOLTAGE ADJUSTMENT IN FLASH EPROMS THROUGH GATE WORK FUNCTION ALTERATION
5,940,709	C737497US	United States	12/18/1997	08/17/1999	METHOD AND SYSTEM FOR SOURCE-ONLY REOXIDATION AFTER JUNCTION IMPLANT FOR FLASH- MEMORY DEVICES
6,127,222	C738497US	United States	12/16/1997	10/03/2000	NON-SELF-ALIGNED SIDE CHANNEL IMPLANTS FOR FLASH MEMORY CELLS
6,387,755	C740497US	United States	12/17/1997	05/14/2002	METHOD AND SYSTEM FOR PROVIDING LOCALIZED GATE-EDGE ROUNDING WITH MINIMAL ENCROACHMENT AND GATE LIFTING
6,015,736	C742497US	United States	12/19/1997	01/18/2000	METHOD AND SYSTEM FOR GATE STACK REOXIDATION CONTROL
6,153,487	C743497US	United States	03/17/1998	11/28/2000	NEW APPROACH FOR THE FORMATION OF SEMICONDUCTOR DEVICES WHICH REDUCES BAND-TO-BAND TUNNELING CURRENT AND SHORT-CHANNEL EFFECTS
6,025,240	C744497US	United States	12/18/1997	02/15/2000	METHOD AND SYSTEM FOR USING A SPACER TO OFFSET IMPLANT DAMAGE AND REDUCE LATERAL DIFFUSION IN FLASH MEMORY DEVICES
6,410,956	C744497US DIV	United States	01/07/2000	06/25/2002	METHOD AND SYSTEM FOR USING A SPACER TO OFFSET IMPLANT DAMAGE AND REDUCE LATERAL DIFFUSION IN FLASH MEMORY DEVICES
6,137,153	C748497US	United States	02/13/1998	10/24/2000	FLOATING GATE CAPACITOR FOR USE IN VOLTAGE REGULATORS
6,262,469	C749497US	United States	03/25/1998	07/17/2001	CAPACITOR FOR USE IN A CAPACITOR DIVIDER THAT HAS A FLOATING GATE TRANSISTOR AS A CORRESPONDING CAPACITOR
6,005,804	C752497US	United States	12/18/1997	12/21/1999	SPLIT VOLTAGE FOR NAND FLASH
6,081,455	C753497US	United States	01/14/1999	06/27/2000	EEPROM DECODER BLOCK HAVING A P-WELL COUPLED TO A CHARGE PUMP FOR CHARGING THE P-WELL AND METHOD OF PROGRAMMING WITH THE EEPROM DECODER BLOCK
5,991,202	C756497US	United States	09/24/1998	11/23/1999	METHOD FOR REDUCING PRGRAM DISTURB DURING SELF-BOOSTING IN A NAND FLASH MEMORY
6,177,322	C758497US	United States	10/23/1998	01/23/2001	HIGH VOLTAGE TRANSISTOR WITH HIGH GATED DIODE BREAKDOWN VOLTAGE
6,369,433	C760497US	United States	10/30/1998	04/09/2002	HIGH VOLTAGE TRANSISTOR WITH LOW BODY EFFECT AND LOW LEAKAGE
6,133,746	C762497	United States	09/30/1998	10/17/2000	METHOD FOR DETERMINING A RELIABLE OXIDE THICKNESS
6,175,522	C762497US CIP	United States	09/30/1999	01/16/2001	READ OPERATION SCHEME FOR A HIGH-DENSITY, LOW VOLTAGE, AND SUPERIOR RELIABILITY NAND FLASH MEMORY DEVICE
6,228,782	C768497US	United States	05/11/1999	05/08/2001	IMPROVED CORE FIELD ISOLATION FOR A NAND FLASH MEMORY
6,235,632	C775497US	United States	01/13/1998	05/22/2001	TUNGSTEN PLUG FORMATION
6,002,151	C776497US	United States	12/18/1997	12/14/1999	NON-VOLATILE TRENCH SEMICONDUCTOR DEVICE
6,124,608	C777497US	United States	12/18/1997	09/26/2000	NON-VOLATILE TRENCH SEMICONDUCTOR DEVICE HAVING A SHALLOW DRAIN REGION

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PATENT OR APPL NO.	SPANSION REFERENCE NO.	COUNTRY	FILING DATE	ISSUE DATE	TITLE
6,020,238	C808497US	United States	11/25/1997	02/01/2000	METHOD OF FABRICATING A HIGH DIELECTRIC CONSTANT INTERPOLYSILICON DIELECTRIC STRUCTURE FOR A LOW VOLTAGE NON-VOLATILE MEMORY
6,025,228	C809597US	United States	11/25/1997	02/15/2000	METHOD OF FABRICATING AN OXYNITRIDE CAPPED-HIGH DIELECTRIC CONSTANT INTERPOLYSILICON DIELECTRIC STRUCTURE FOR A LOW VOLTAGE NON-VOLATILE MEMORY
6,228,746	C814497US CON	United States	12/18/1997	05/08/2001	METHODOLOGY FOR ACHIEVING DUAL FIELD OXIDE THICKNESS
6,080,682	C815597US	United States	12/18/1997	06/27/2000	METHODOLOGY FOR ACHIEVING DUAL GATE OXIDE THICKNESSES
6,232,244	C815597US DIV	United States	05/01/2000	05/15/2001	METHODOLOGY FOR ACHIEVING DUAL GATE OXIDE THICKNESSES
6,091,138	C879597US	United States	02/27/1998	07/18/2000	MULTI-CHIP PACKAGING USING BUMP TECHNOLOGY
6,043,120	C915697US CIP	United States	03/03/1998	03/28/2000	ELIMINATION OF OXYNITRIDE (ONO) ETCH RESIDUE AND POLYSILICON STRINGERS THROUGH ISOLATION OF FLOATING GATES ON ADJACENT BITLINES BY POLYSILICON OXIDATION
5,990,515	C917697US	United States	03/30/1998	11/23/1999	A TRENCHED GATE NON-VOLATILE SEMICONDUCTOR DEVICE AND METHOD WITH CORNER DOPING AND SIDEWALL DOPING
6,118,147	C918697US	United States	07/07/1998	09/12/2000	DOUBLE DENSITY NON-VOLATILE MEMORY CELLS
6,232,632	C918697US CON	United States	11/09/1999	05/15/2001	DOUBLE DENSITY NON-VOLATILE MEMORY CELLS
6,030,868	C921697US CIP	United States	03/03/1998	02/29/2000	ELIMINATION OF OXYNITRIDE (ONO) ETCH RESIDUE AND POLYSILICON STRINGERS THROUGH ISOLATION OF FLOATING GATES ON ADJACENT BITLINES BY POLYSILICON OXIDATION
09/468,510	C921697US DIV	United States	12/15/1999		ELIMINATION OF OXYNITRIDE (ONO) ETCH RESIDUE AND POLYSILICON STRINGERS THROUGH ISOLATION OF FLOATING GATES ON ADJACENT BITLINES BY POLYSILICON OXIDATION
6,110,833	C922697US CIP	United States	03/03/1998	08/29/2000	ELIMINATION OF OXYNITRIDE (ONO) ETCH RESIDUE AND POLYSILICON STRINGERS THROUGH ISOLATION OF FLOATING GATES ON ADJACENT BITLINES BY POLYSILICON OXIDATION
6,455,888	C922697US DIV	United States	02/17/2000	09/24/2002	MEMORY CELL STRUCTURE FOR ELIMINATION OF OXYNITRIDE (ONO) ETCH RESIDUE AND POLYSILICON STRINGERS
6,001,689	D001US	United States	01/16/1998	12/14/1999	PROCESS FOR FABRICATING A FLASH MEMORY WITH DUAL FUNCTION CONTROL LINES
6,218,689	D010106US	United States	08/06/1999	04/17/2001	METHOD FOR PROVIDING A DOPANT LEVEL FOR POLYSILICON FOR FLASH MEMORY DEVICES
6,506,683	D0122US	United States	10/06/1999	01/14/2003	IN-SITU PROCESS FOR FABRICATING A SEMICONDUCTOR DEVICE WITH INTEGRAL REMOVAL OF ANTIREFLECTION AND ETCH STOP LAYERS
5,978,267	D016US	United States	10/20/1998	11/02/1999	BIT LINE BIASING METHOD TO ELIMINATE PROGRAM DISTURBANCE IN A NON-VOLATILE MEMORY DEVICE AND MEMORY DEVICE EMPLOYING THE SAME
6,381,550	D0178US	United States	05/28/1999	04/30/2002	METHOD OF UTILIZING FAST CHIP ERASE TO SCREEN ENDURANCE REJECTS
6,146,944	D019US	United States	03/16/1998	11/14/2000	LARGE ANGLE IMPLANTATION TO PREVENT FIELD TURN-ON UNDER SELECT GATE TRANSISTOR FIELD OXIDE REGION FOR NON-VOLATILE MEMORY MEMORY DEVICES
6,100,593	D021US	United States	02/27/1998	08/08/2000	MULTIPLE CHIP HYBRID PACKAGE USING BUMP TECHNOLOGY
6,369,421	D103US	United States	06/29/1998	04/09/2002	EEPROM HAVING STACKED DIELECTRIC TO INCREASE PROGRAMMING SPEED
5,973,958	D105US	United States	06/23/1998	10/26/1999	AN INTERLACED STORAGE AND SENSE TECHNIQUE FOR FLASH MULTI-LEVEL DEVICES
6,146,795	D107US	United States	09/02/1998	11/14/2000	METHOD FOR MANUFACTURING MEMORY DEVICE
6,091,631	D119US	United States	07/01/1998	07/18/2000	A PROGRAM/VERIFY TECHNIQUE FOR MULTI-LEVEL FLASH CELLS ENABLING DIFFERENT THRESHOLD LEVELS TO BE SIMULTANEOUSLY PROGRAMMED
6,150,285	D125US	United States	06/17/1998	11/21/2000	METHOD FOR ESTABLISHING INTER-LAYER DIELECTRIC FOR 0.25u AND SMALLER SEMICONDUCTOR CHIP TECHNOLOGY WHILE MINIMIZING HYDROGEN EMBRITTLEMENT AND SEMICONDUCTOR CHIP MADE THEREBY
6,566,252	D125US DIV	United States	10/11/2000	05/20/2003	METHOD FOR SIMULTANEOUS DEPOSITION AND SPUTTERING TEOS AND DEVICE THEREBY FORMED
5,995,417	D138	United States	10/05/1999	01/08/2003	SCHEME FOR PAGE ERASE AND ERASE VERIFY IN A NON-VOLATILE MEMORY ARRAY
6,275,894	D139US	United States	09/22/1999		BANK SELECTOR CIRCUIT FOR A SIMULTANEOUS OPERATION FLASH MEMORY DEVICE WITH A FLEXIBLE BANK PARTITION ARCHITECTURE
6,633,949	D139US DIV	United States	06/26/2001	10/14/2003	BANK SELECTOR CIRCUIT FOR A SIMULTANEOUS OPERATION FLASH MEMORY DEVICE WITH A FLEXIBLE BANK PARTITION ARCHITECTURE
6,470,414	D139US DIV2	United States	06/26/2001	10/22/2002	BANK SELECTOR CIRCUIT FOR A SIMULTANEOUS OPERATION FLASH MEMORY DEVICE WITH A FLEXIBLE BANK PARTITION ARCHITECTURE
6,100,754	D140US	United States	08/03/1998	08/08/2000	VT REFERENCE VOLTAGE FOR EXTREMELY LOW POWER-SUPPLY
5,995,415	D168US	United States	09/23/1998	11/30/1999	SIMULTANEOUS OPERATION FLASH MEMORY DEVICE WITH A FLEXIBLE DEVICE WITH A FLEXIBLE BANK PARTITION ARCHITECTURE
6,033,955	D169US	United States	09/23/1998	03/07/2000	METHOD OF MAKING FLEXIBLY PARTITIONED METAL LINE SEGMENTS FOR A SIMULTANEOUS OPERATION FLASH MEMORY DEVICE WITH A FLEXIBLE BANK PARTITION ARCHITECTURE
6,005,803	D170US	United States	09/23/1998	12/21/1999	MEMORY ADDRESS DECODING CIRCUIT FOR A SIMULTANEOUS OPERATION FLASH MEMORY DEVICE WITH A FLEXIBLE BANK PARTITION ARCHITECTURE
6,438,726	D225US	United States	05/18/1999	08/20/2002	METHOD OF DUAL USE OF NON-VOLATILE MEMORY FOR ERROR CORRECTION
6,584,594	D243	United States	05/18/1999	06/24/2003	DATA PRE-READING AND ERROR CORRECTION CIRCUIT FOR A MEMORY DEVICE

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PATENT OR APPL NO.	SPANSION REFERENCE NO.	COUNTRY	FILING DATE	ISSUE DATE	TITLE
5,930,172	D244US	United States	06/23/1998	07/27/1999	A PAGE BUFFER FOR A MULTI-LEVEL FLASH MEMORY WITH A LIMITED NUMBER OF LATCHES PER MEMORY CELL
6,204,516	D268US	United States	09/30/1998	03/20/2001	METHOD AND APPARATUS FOR DETERMINING THE ROBUSTNESS OF MEMORY CELLS TO ALPHA-PARTICLE/COSMIC RAY INDUCED SOFT ERRORS
6,348,356	D268US DIV	United States	09/19/2000	02/19/2002	METHOD AND APPARATUS FOR DETERMINING THE ROBUSTNESS OF MEMORY CELLS TO ALPHA-PARTICLE/COSMIC RAY INDUCED SOFT ERRORS
6,143,608	D355US	United States	03/31/1999	11/07/2000	BARRIER LAYER DECREASES NITROGEN CONTAMINATION OF PERIPHERAL GATE REGIONS DURING TUNNEL OXIDE NITRIDATION
09/561,665	D561	United States	05/02/2000		SION ARC FOR IMPROVED CRITICAL DIMENSION CONTROL ON OXIDE FILMS
6,475,868	D613US	United States	08/17/2000	11/05/2002	OXYGEN IMPLANTATION FOR REDUCTION OF JUNCTION CAPACITANCE IN MOS TRANSISTORS
6,506,640	D617US	United States	09/22/2000	01/14/2003	MULTIPLE CHANNEL IMPLANTATION TO FORM RETROGRADE CHANNEL PROFILE AND TO ENGINEER THRESHOLD VOLTAGE AND SUBSURFACE PUNCH-THROUGH
6,713,842	D653US	United States	08/17/2000	03/30/2004	MASK FOR AND METHOD OF FORMING A CHARACTER ON A SUBSTRATE
6,246,118	D725US	United States	02/18/1999	06/12/2001	LOW DIELECTRIC SEMICONDUCTOR DEVICE WITH RIGID, CONDUCTIVELY LINED INTERCONNECTION SYSTEM
6,667,552	D726US	United States	02/18/1999	12/23/2003	LOW DIELECTRIC METAL SILICIDE LINED INTERCONNECTION SYSTEM
6,074,917	D800US	United States	11/11/1998	06/13/2000	LPCVD OXIDE AND RTA FOR TOP OXIDE OF ONO FILM TO IMPROVE RELIABILITY FOR FLASH MEMORY DEVICES
6,238,975	D802US	United States	11/25/1998	05/29/2001	METHOD FOR IMPROVING ELECTROSTATIC DISCHARGE (ESD) ROBUSTNESS
6,218,245	D803US	United States	11/24/1998	04/17/2001	METHOD FOR FABRICATING A HIGH-DENSITY AND HIGH-RELIABILITY EEPROM DEVICE
6,579,781	D827	United States	07/19/2000	06/17/2003	ELIMINATION OF N+ CONTACT IMPLANT FROM FLASH TECHNOLOGIES BY REPLACEMENT WITH STANDARD DOUBLE-DIFFUSED AND N+ IMPLANTS
6,277,690	D828US	United States	11/02/2000	08/21/2001	ELIMINATION OF N+ IMPLANT FROM FLASH TECHNOLOGY BY REPLACEMENT WITH STANDARD MEDIUM-DOPED-DRAIN (MDD) IMPLANT
6,440,789	D829US	United States	11/01/2000	08/27/2002	PHOTORESIST SPACER PROCESS SIMPLIFICATION TO ELIMINATE STANDARD POLYSILICON OR OXIDE SPACER PROCESS FOR FLASH MEMORY CIRCUITS
6,188,609	D832US	United States	05/06/1999	02/13/2001	RAMPED OR STEPPED GATE CHANNEL ERASE FOR FLASH MEMORY APPLICATION
6,141,255	D833US	United States	09/02/1999	10/31/2000	1 TRANSISTOR FOR EEPROM APPLICATION
6,240,016	D834US	United States	01/31/2000	05/29/2001	METHOD TO REDUCE READ GATE DISTURB FOR FLASH EEPROM APPLICATION
6,255,165	D837US	United States	10/18/1999	07/03/2001	NITRIDE PLUG TO REDUCE GATE EDGE LIFTING
6,329,273	D838US	United States	10/29/1999	12/11/2001	SOLID-SOURCE DOPING FOR SOURCE/DRAIN TO ELIMINATE IMPLANT DAMAGE
6,294,430	D840US	United States	01/31/2000	09/25/2001	NITRIDIZATION OF THE PRE-DDI SCREEN OXIDE
6,207,978	D841US	United States	03/01/2000	03/27/2001	FLASH MEMORY CELLS HAVING A MODULATION DOPED METEROJUNCTION STRUCTURE
6,285,588	D842US	United States	01/31/2000	09/04/2001	ERASE SCHEME TO TIGHTEN THE THRESHOLD VOLTAGE DISTRIBUTION OF EEPROM FLASH MEMORY CELLS
6,172,909	D844US	United States	08/09/1999	01/09/2001	RAMPED GATE TECHNIQUE FOR SOFT PROGRAMMING TO TIGHTEN THE VI DISTRIBUTION
6,233,175	D845US	United States	10/21/2000	05/05/2001	SELF-LIMITING MULTI-LEVEL PROGRAMMING STATES
6,452,840	D846US	United States	10/21/2000	09/17/2002	FEEDBACK METHOD TO OPTIMIZE ELECTRIC FIELD DURING CHANNEL ERASE OF FLASH MEMORY DEVICES
6,147,907	D847US	United States	10/29/1999	11/14/2000	BIASING SCHEME TO REDUCE STRESS ON NON-SELECTED CELLS DURING READ
6,049,479	D848US	United States	09/23/1999	04/11/2000	OPERATIONAL APPROACH FOR THE SUPPRESSION OF BI-DIRECTIONAL TUNNEL OXIDE OF A FLASH CELL
6,198,664	D849US	United States	01/31/2000	03/06/2001	APDE SCHEME FOR FLASH MEMORY APPLICATION
6,137,727	D851US	United States	01/24/2000	10/24/2000	REDUCTION OF OXIDE STRESS THROUGH THE USE OF FORWARD BIASED BODY VOLTAGE
6,178,117	D852US	United States	01/24/2000	01/23/2001	BACKGROUND CORRECTION FOR CHARGE GAIN AND LOSS
6,160,740	D853US	United States	01/24/2000	12/12/2000	METHOD TO PROVIDE A REDUCED CONSTANT E-FIELD DURING ERASE OF EEPROMS FOR RELIABILITY IMPROVEMENT
09/522,209	D854	United States	03/09/2000		POLYSILICON SOURCE CONNECTION FOR FLASH NOR ARRAYS
60/163,760	D855	United States	11/05/1999		DEPOSITED SCREEN OXIDE FOR REDUCING GATE EDGE LIFTING
6,518,072	D855US	United States	01/03/2000	02/11/2003	DEPOSITED SCREEN OXIDE FOR REDUCING GATE EDGE LIFTING
60/163,761	D856	United States	11/05/1999		USE OF ETCH TO BLUNT GATE CORNERS
6,238,978	D856US	United States	01/03/2000	05/29/2001	USE OF ETCH TO BLUNT GATE CORNERS
6,576,949	D861	United States	08/30/1999	06/10/2003	INTEGRATED CIRCUIT HAVING OPTIMIZED GATE COUPLING CAPACITANCE
6,232,635	D862US	United States	04/06/2000	05/15/2001	NEW METHOD TO FABRICATE A HIGH COUPLING FLASH CELL WITH LESS SILICIDE SEAM PROBLEM
6,530,997	D867US	United States	04/06/2000	03/11/2003	USE OF GASEOUS SILICON HYDRIDES AS A REDUCING AGENT TO REMOVE RE-SUPUTTERED SILICON OXIDE
6,682,978	D877US	United States	02/15/2000	01/27/2004	INTEGRATED CIRCUIT HAVING INCREASED GATE COUPLING CAPACITANCE
6,323,516	D878US	United States	09/03/1999	11/27/2001	A FLASH MEMORY DEVICE AND FABRICATION METHOD HAVING A HIGH COUPLING RATIO

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PATENT OR APPL NO.	SPANSON REFERENCE NO.	COUNTRY	FILING DATE	ISSUE DATE	TITLE
6,346,466	D880US	United States	03/30/2000	02/12/2002	PLANARIZATION OF A POLYSILICON LAYER SURFACE BY CHEMICAL MECHANICAL POLISH TO IMPROVE LITHOGRAPHY AND SILICIDE FORMATION
6,548,336	D880US DIV	United States	02/08/2002	04/15/2003	PLANARIZATION OF A POLYSILICON LAYER SURFACE BY CHEMICAL MECHANICAL POLISH TO IMPROVE LITHOGRAPHY AND SILICIDE FORMATION
6,410,443	D883US	United States	02/22/2000	06/25/2002	METHOD FOR REMOVING SEMICONDUCTOR ARC USING ARC CMP BUFFING
6,551,923	D884	United States	11/01/1999	04/22/2003	DUAL WIDTH CONTACT FOR CHARGE GAIN REDUCTION
7,141,482	D885US	United States	11/02/2004	11/28/2006	METHOD OF MAKING A MEMORY CELL
6,486,506	D887US	United States	03/23/2000	11/26/2002	FLASH MEMORY WITH LESS SUSCEPTIBILITY TO CHARGE GAIN AND CHARGE LOSS
09/422,282	D891US	United States	10/21/1999		A METHOD FOR ACHIEVING A HIGH-COUPPLING RATIO IN FLASH MEMORY DEVICES
60/151,453	D891US PROV	United States	08/30/1999		A METHOD FOR ACHIEVING A HIGH-COUPPLING RATIO IN FLASH MEMORY DEVICES
6,635,943	D892US	United States	03/22/2000	10/21/2003	METHOD AND SYSTEM FOR REDUCING CHARGE GAIN AND CHARGE LOSS IN INTERLAYER DIELECTRIC FORMATION
6,197,635	D893US	United States	10/13/1999	03/06/2001	METHOD OF MANUFACTURING A SEMICONDUCTOR DEVICE WITH REDUCED MASKING AND WITHOUT ARC LOSS IN PERIPHERAL CIRCUITRY REGION
6,235,587	D894US	United States	10/13/1999	05/22/2001	METHOD OF MANUFACTURING A SEMICONDUCTOR DEVICE WITH REDUCED ARC LOSS IN PERIPHERAL CIRCUITRY REGION
6,200,857	D895US	United States	10/13/1999	03/13/2001	METHOD OF MANUFACTURING A SEMICONDUCTOR DEVICE WITHOUT REDUCED ARC LOSS IN PERIPHERAL CIRCUITRY REGION
60/224,658	D897	United States	08/11/2000		PROCESS FOR TREATING ONO DIELECTRIC FILM OF A FLOATING GATE MEMORY CELL
6,709,927	D897US	United States	08/10/2001	03/23/2004	PROCESS FOR TREATING ONO DIELECTRIC FILM OF A FLOATING GATE MEMORY CELL
09/927,988	D898	United States	08/10/2001		PROCESS FOR TREATING ONO DIELECTRIC FILM OF A FLOATING GATE TYPE MEMORY CELL
60/224,814	D898	United States	08/11/2000		PROCESS FOR TREATING ONO DIELECTRIC FILM OF A FLOATING GATE TYPE MEMORY CELL
6,304,487	D898US	United States	02/28/2000	10/16/2001	REGISTER DRIVEN MEANS TO CONTROL PROGRAMMING VOLTAGES
09/433,591	D900	United States	11/02/1999		METHOD AND SYSTEM FOR REDUCING ARC LAYER REMOVAL DURING REMOVAL OF PHOTORESIST
7,015,134	D900US DIV	United States	02/19/2002	03/21/2006	METHOD FOR REDUCING ANTI-REFLECTIVE COATING LAYER REMOVAL DURING REMOVAL OF PHOTORESIST
6,369,416	D902US	United States	09/23/1999	04/09/2002	SEMICONDUCTOR DEVICE WITH CONTACTS HAVING A SLOPED PROFILE
6,342,415	D903US	United States	09/23/1999	01/29/2002	METHOD AND SYSTEM FOR PROVIDING REDUCED-SIZED CONTACTS IN A SEMICONDUCTOR DEVICE
6,235,584	D908US	United States	10/05/1999	05/22/2001	METHOD AND SYSTEM FOR REDUCING SHORT CHANNEL EFFECTS IN A MEMORY DEVICE
09/410,962	D914US	United States	10/05/1999		METHOD AND SYSTEM FOR REDUCING SHORT CHANNEL EFFECTS IN A MEMORY DEVICE BY REDUCTION OF DRAIN THERMAL CYCLING
60/254,048	D915	United States	12/06/2000		NOVEL NITRIDING PRETREATMENT OF FLASH ONO NITRIDE FOR OXIDE DEPOSITION
6,620,705	D915US	United States	12/05/2001	09/16/2003	NITRIDING PRETREATMENT OF FLASH ONO NITRIDE FOR OXIDE DEPOSITION
6,858,496	D916US	United States	12/05/2001	02/22/2005	NOVEL OXIDIZING PRETREATMENT OF FLASH ONO NITRIDE FOR OXIDE DEPOSITION
6,268,624	D917	United States	07/31/1999	07/31/2001	METHOD FOR INHIBITING TUNNEL OXIDE GROWTH AT THE EDGES OF A FLOATING GATE DURING SEMICONDUCTOR DEVICE PROCESSING
6,337,246	D917US DIV	United States	04/02/2001	01/08/2002	METHOD FOR INHIBITING TUNNEL OXIDE GROWTH AT THE EDGES OF A FLOATING GATE DURING SEMICONDUCTOR DEVICE PROCESSING
6,512,264	D925US	United States	06/14/2000	01/28/2003	FLASH MEMORY HAVING PRE-INTERPOLY DIELECTRIC TREATMENT LAYER AND METHOD OF FORMING
6,716,702	D925US DIV	United States	11/08/2002	04/06/2004	METHOD OF FORMING FLASH MEMORY HAVING PRE-INTERPOLY DIELECTRIC TREATMENT LAYER
6,306,777	D928	United States	06/15/2000	10/23/2001	FLASH MEMORY HAVING A TREATMENT LAYER DISPOSED BETWEEN AN INTERPOLY DIELECTRIC STRUCTURE AND METHOD OF FORMING
6,798,002	D931US	United States	06/30/2000	09/28/2004	DUAL-PURPOSE ANTI-REFLECTIVE COATING AND SPACER FOR FLASH MEMORY AND OTHER DUAL GATE TECHNOLOGIES AND METHOD FOR FORMING
6,867,097	D932US	United States	10/28/1999	03/15/2005	POLISHED FLASH PROCESS WITH METAL GATES AND IMPROVED PLANARITY
09/632,376	D932US DIV	United States	08/03/2000		POLISHED FLASH PROCESS WITH METAL GATES AND IMPROVED PLANARITY
6,808,996	D940US	United States	08/18/1999	10/26/2004	METHOD FOR PROTECTING GATE EDGES FROM CHARGE GAIN/LOSS IN SEMICONDUCTOR DEVICE
6,248,627	D941US	United States	08/18/1999	06/19/2001	METHOD FOR PROTECTING GATE EDGES FROM CHARGE GAIN/LOSS IN SEMICONDUCTOR DEVICE
6,455,373	D941US DIV	United States	04/12/2001	09/24/2002	SEMICONDUCTOR DEVICE HAVING GATE EDGES PROTECTED FROM CHARGE GAIN/LOSS
09/484,858	D946	United States	01/18/2000		NOVEL CAPPING LAYER
6,448,608	D946US CON	United States	08/04/2000	09/10/2002	CAPPING LAYER

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6,548,334	D946US DIV	United States	06/24/2002	04/15/2003	CAPPING LAYER
6,465,835	D949US	United States	01/18/2000	10/15/2002	CHARGE GAIN/CHARGE LOSS JUNCTION LEAKAGE PREVENTION FOR FLASH TECHNOLOGY BY USING ISOLATION/CAPPING LAYER BETWEEN LIGHTLY DOPED DRAIN AND GATE
6,589,841	D949US DIV	United States	06/25/2002	07/08/2003	CHARGE GAIN/CHARGE LOSS JUNCTION LEAKAGE PREVENTION FOR FLASH TECHNOLOGY BY USING DOUBLE ISOLATION/CAPPING LAYER BETWEEN LIGHTLY DOPED DRAIN AND GATE
7,964,905	D955US	United States	06/06/2000	06/21/2011	ANTI-REFLECTIVE INTERPOLY DIELECTRIC
6,787,840	D956US	United States	01/27/2000	09/07/2004	NITRIDATED TUNNEL OXIDE BARRIERS FOR FLASH MEMORY TECHNOLOGY CIRCUITRY
6,509,604	D958US	United States	01/26/2000	01/21/2003	NITRADATION BARRIERS FOR NITRIDATED TUNNEL OXIDE FOR CIRCUITRY FOR FLASH TECHNOLOGY AND FOR LOCOS/STI ISOLATION
6,605,511	D958US DIV	United States	11/15/2002	08/12/2003	METHOD OF FORMING NITRIDATED TUNNEL OXIDE BARRIERS FOR FLASH MEMORY TECHNOLOGY CIRCUITRY AND STI AND LOCOS ISOLATION
6,294,460	D962US	United States	05/31/2000	09/25/2001	SEMICONDUCTOR MANUFACTURING METHOD USING A HIGH EXTINCTION COEFFICIENT DIELECTRIC PHOTOMASK
6,380,067	D963US	United States	05/31/2000	04/30/2002	METHOD FOR CREATING PARTIALLY UV TRANSPARENT ANTI-REFLECTIVE COATING FOR SEMICONDUCTORS
6,359,307	D968US	United States	01/29/2000	03/19/2002	METHOD FOR FORMING SELF-ALIGNED CONTACTS AND INTERCONNECTION LINES USING DUAL DAMASCENE TECHNIQUES
6,348,379	D969US	United States	02/11/2000	02/19/2002	METHOD FOR FORMING SELF-ALIGNED CONTACTS USING CONSUMABLE SPACERS
6,509,229	D969US CON	United States	05/07/2001	01/21/2003	METHOD FOR FORMING SELF-ALIGNED CONTACTS USING CONSUMABLE SPACERS
6,348,406	D970US	United States	05/31/2000	02/19/2002	METHOD FOR USING A LOW DIELECTRIC CONSTANT LAYER AS A SEMICONDUCTOR ANTI-REFLECTIVE COATING
6,376,389	D971US	United States	05/31/2000	04/23/2002	METHOD FOR ELIMINATING ANTI-REFLECTIVE COATING IN SEMICONDUCTORS
60/239,467	D973	United States	10/10/2000		METHOD FOR FORMING SELF-ALIGNED CONTACTS AND LOCAL INTERCONNECTS FOR SALICIDED GATES USING A SECONDARY SPACER
6,306,713	D973US	United States	03/05/2001	10/23/2001	METHOD FOR FORMING SELF-ALIGNED CONTACTS AND LOCAL INTERCONNECTS FOR SALICIDED GATES USING A SECONDARY SPACER
6,482,699	D974US	United States	10/10/2000	11/19/2002	METHOD FOR FORMING SELF-ALIGNED CONTACTS AND LOCAL INTERCONNECTS USING DECOUPLED LOCAL INTERCONNECT PROCESS
6,271,087	D976US	United States	10/10/2000	08/07/2001	METHOD FOR FORMING SELF-ALIGNED CONTACTS AND LOCAL INTERCONNECTS USING SELF-ALIGNED LOCAL INTERCONNECTS
6,420,752	D977US	United States	02/11/2000	07/16/2002	SEMICONDUCTOR DEVICE WITH SELF-ALIGNED CONTACTS USING A LINER OXIDE LAYER
6,475,847	D977US DIV	United States	03/27/2002	11/05/2002	METHOD FOR FORMING A SEMICONDUCTOR DEVICE WITH SELF-ALIGNED CONTACTS USING A LINER OXIDE LAYER
6,136,649	D980US	United States	10/12/1999	10/24/2000	METHOD FOR REMOVING ANTI-REFLECTIVE COATING LAYER USING PLASMA ETCH PROCESS AFTER CONTACT CMP
6,291,296	D981US	United States	10/12/1999	09/18/2001	METHOD FOR REMOVING ANTI-REFLECTIVE COATING LAYER USING PLASMA ETCH PROCESS BEFORE CONTACT CMP
6,327,183	D983US	United States	01/10/2000	12/04/2001	NONLINEAR STEPPED PROGRAMMING VOLTAGE
6,141,244	D984US	United States	09/02/1999	10/31/2000	MULTI LEVEL SENSING OF NAND MEMORY CELLS BY EXTERNAL BIAS CURRENT
6,246,610	D985US	United States	02/22/2000	06/12/2001	SYMMETRICAL PROGRAM/ERASE SCHEME TO IMPROVE ERASE TIME DEGRADATION IN NAND DEVICES
6,246,611	D987US	United States	02/28/2000	06/12/2001	A SYSTEM FOR ERASING A MEMORY CELL
6,545,912	D988US	United States	11/30/2000	04/08/2003	ERASE VERIFY MODE TO EVALUATE NEGATIVE V _{ts}
6,181,605	D990	United States	10/06/1999	01/30/2001	GLOBAL ERASE/PROGRAM VERIFICATION APPARATUS AND METHOD
6,351,017	D992US	United States	03/22/2000	02/26/2002	HIGH VOLTAGE TRANSISTOR WITH MODIFIED FIELD IMPLANT MASK
6,514,830	D992US DIV	United States	01/11/2002	02/04/2003	METHOD OF MANUFACTURING HIGH VOLTAGE TRANSISTOR WITH MODIFIED FIELD IMPLANT MASK
6,166,951	D993US	United States	08/06/1999	12/26/2000	MULTI STATE SENSING OF NAND MEMORY CELLS BY APPLYING REVERSE-BIAS VOLTAGE
6,504,757	D994	United States	08/03/2001	01/07/2003	DOUBLE BOOSTING SCHEME FOR NAND TO IMPROVE PROGRAM INHIBIT CHARACTERISTICS
6,188,606	D995US	United States	08/06/1999	02/13/2001	MULTI-STATE SENSING OF NAND MEMORY CELLS BY VARYING SOURCE BIAS
6,185,130	D996US	United States	10/18/1999	02/06/2001	PROGRAMMABLE CURRENT SOURCE
60/254,067	D997	United States	12/06/2000		USING PROGRAMMABLE/ERASABLE CAMS TO ADJUST CURRENT REFERENCE USED IN NAND SENSING
6,525,966	D997US	United States	12/05/2001	02/25/2003	METHOD AND APPARATUS ADJUSTING ON-CHIP CURRENT REFERENCE FOR EEPROM SENSING
6,812,521	D998US	United States	01/27/2000	11/02/2004	METHOD AND APPARATUS FOR IMPROVED PERFORMANCE OF FLASH MEMORY CELL DEVICES
6,177,316	D999US	United States	10/07/1999	01/23/2001	POST BARRIER METAL CONTACT IMPLANTATION TO MINIMIZE OUT DIFFUSION FOR NAND DEVICE
6,529,410	DA01000US	United States	09/20/2000	03/04/2003	NEW NAND ARRAY STRUCTURE USING SUBSTRATE HOT ELECTRON INJECTION SCHEME FOR PROGRAMMING
6,933,554	DA01001US	United States	07/11/2001	08/23/2005	RECESSED TUNNEL OXIDE PROFILE FOR IMPROVED RELIABILITY IN NAND DEVICES
6,269,025	DA01002	United States	02/09/2000	07/31/2001	MEMORY SYSTEM HAVING A PROGRAM AND ERASE VOLTAGE MODIFIER

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PATENT OR APPL NO.	SPANSION REFERENCE NO.	COUNTRY	FILING DATE	ISSUE DATE	TITLE
6,153,470	DA01004US	United States	08/12/1999	11/28/2000	FLOATING GATE ENGINEERING TO IMPROVE TUNNEL OXIDE RELIABILITY FOR FLASH DEVICES
6,580,639	DA01007	United States	08/10/1999	06/17/2003	METHOD OF REDUCING PROGRAM DISTURBS IN NAND TYPE FLASH MEMORY DEVICES
6,295,228	DA01009	United States	02/28/2000	09/25/2001	A SYSTEM FOR PROGRAMMING MEMORY CELLS
6,365,945	DA01011US	United States	05/02/2000	04/02/2002	SUBMICRON SEMICONDUCTOR DEVICE HAVING A SELF-ALIGNED CHANNEL STOP REGION AND A METHOD FOR FABRICATING THE SEMICONDUCTOR DEVICE USING A TRIM AND ETCH
6,727,195	DA01012US	United States	02/06/2001	04/27/2004	METHOD AND SYSTEM FOR DECREASING THE SPACES BETWEEN WORDLINES
6,445,051	DA01018US	United States	05/02/2000	09/03/2002	METHOD AND SYSTEM FOR PROVIDING CONTACTS WITH GREATER TOLERANCE FOR MISALIGNMENT IN A FLASH MEMORY
6,448,594	DA01019US	United States	03/30/2000	09/10/2002	METHOD AND SYSTEM FOR PROCESSING A SEMICONDUCTOR DEVICE
6,306,706	DA01021US	United States	03/30/2000	10/23/2001	METHOD AND SYSTEM FOR FABRICATING A FLASH MEMORY ARRAY
09/368,323	DA01022	United States	08/03/1999		METHOD AND SYSTEM FOR ETCHING TUNNEL OXIDE TO REDUCE UNDERCUTTING DURING MEMORY ARRAY FABRICATION
6,472,327	DA01022US DIV	United States	08/08/2001	10/29/2002	METHOD AND SYSTEM FOR ETCHING TUNNEL OXIDE TO REDUCE UNDERCUTTING DURING MEMORY ARRAY FABRICATION
09/376,396	DA01023	United States	08/18/1999		METHOD FOR CONTACT SIZE CONTROL FOR NAND TECHNOLOGY
09/775,723	DA01023US DIV	United States	02/01/2001		METHOD FOR CONTACT SIZE CONTROL FOR NAND TECHNOLOGY
6,300,658	DA01024US	United States	08/03/1999	10/09/2001	METHOD FOR REDUCED GATE ASPECT RATIO TO IMPROVE GAP-FILL AFTER SPACER ETCH
6,376,309	DA01024US DIV	United States	03/16/2001	04/23/2002	METHOD FOR REDUCED GATE ASPECT RATIO TO IMPROVE GAP-FILL AFTER SPACER ETCH
6,610,580	DA01025US	United States	05/02/2000	08/26/2003	FLASH MEMORY ARRAY AND A METHOD AND SYSTEM OF FABRICATION THEREOF
8,183,619	DA01028US	United States	03/30/2000	05/22/2012	METHOD AND SYSTEM FOR PROVIDING CONTACT TO A FIRST POLYSILICON LAYER IN A FLASH MEMORY DEVICE
8,507,969	DA01028US CON	United States	05/07/2012	08/13/2013	METHOD AND SYSTEM FOR PROVIDING CONTACT TO A FIRST POLYSILICON LAYER IN A FLASH MEMORY DEVICE
8,329,530	DA01028US CON2	United States	08/03/2012	12/11/2012	METHOD AND SYSTEM FOR PROVIDING CONTACT TO A FIRST POLYSILICON LAYER IN A FLASH MEMORY DEVICE
6,323,047	DA01029US	United States	08/03/1999	11/27/2001	METHOD FOR MONITORING SECOND GATE OVER-ETCH IN A SEMICONDUCTOR DEVICE
6,410,949	DA01029US DIV	United States	01/31/2001	06/25/2002	METHOD FOR MONITORING SECOND GATE OVER-ETCH IN A SEMICONDUCTOR DEVICE
6,448,593	DA01031	United States	01/26/2000	09/10/2002	TYPE-1 POLYSILICON ELECTROSTATIC DISCHARGE TRANSISTORS
09/495,425	DA01032	United States	01/31/2000		FLASH MEMORY HAVING IMPROVED CORE FIELD ISOLATION IN SELECT GATE REGIONS
60/172,355	DA01032PROV	United States	12/16/1999		FLASH MEMORY HAVING IMPROVED CORE FIELD ISOLATION IN SELECT GATE REGIONS
6,815,292	DA01032US DIV	United States	09/27/2002	11/09/2004	FLASH MEMORY HAVING IMPROVED CORE FIELD ISOLATION IN SELECTIVE GATE REGIONS
6,448,609	DA01033US	United States	10/28/1999	09/10/2002	METHOD AND SYSTEM FOR PROVIDING A POLYSILICON STRINGER MONITOR
6,602,776	DA01033US DIV	United States	05/23/2002	08/05/2003	METHOD AND SYSTEM FOR PROVIDING A POLYSILICON STRINGER MONITOR
6,638,358	DA01035US	United States	01/13/2000	10/28/2003	METHOD AND SYSTEM FOR PROCESSING A SEMICONDUCTOR DEVICE
6,240,017	DA01055US	United States	07/14/1999	05/29/2001	REDUCTION OF VOLTAGE STRESS ACROSS A GATE OXIDE AND ACROSS A JUNCTION WITHIN A HIGH VOLTAGE TRANSISTOR FOR AN ERASABLE MEMORY DEVICE
6,275,424	DA01055US DIV	United States	01/31/2001	08/14/2001	REDUCTION OF VOLTAGE STRESS ACROSS A GATE OXIDE AND ACROSS A JUNCTION WITHIN A HIGH VOLTAGE TRANSISTOR FOR AN ERASABLE MEMORY DEVICE
6,380,029	DA01068US	United States	12/04/1998	04/30/2002	METHOD OF FORMING ONO STACKED FILMS AND DCS TUNGSTEN SILICIDE GATE TO IMPROVE POLYCIDAL GATE PERFORMANCE FOR FLASH MEMORY DEVICES
6,355,522	DA01068US CIP	United States	03/05/1999	03/12/2002	EFFECT OF DOPED AMORPHOUS SI THICKNESS ON BETTER POLY 1 CONTACT RESISTANCE PERFORMANCE FOR NAND TYPE FLASH MEMORY DEVICES
6,162,684	DA01069US	United States	03/11/1999	12/19/2000	AMONIA ANNEALED AND WET OXIDIZED LPCVD OXIDE TO REPLACE ONO FILM FOR HIGH INTEGRATED FLASH MEMORY DEVICES
6,184,084	DA01070US	United States	03/05/1999	02/06/2001	METHOD TO ELIMINATE SILICIDE CRACKING FOR NAND TYPE FLASH MEMORY DEVICES BY IMPLANTING A POLISH RATE IMPROVER INTO THE SECOND POLYSILICON LAYER AND POLISHING IT
6,309,927	DA01096US	United States	03/05/1999	10/30/2001	METHOD OF FORMING HIGH K TANTALUM PENTOXIDE TA2O5 INSTEAD OF ONO STACKED FILMS TO INCREASE COUPLING RATIO AND IMPROVE RELIABILITY FOR FLASH MEMORY DEVICES
6,338,001	E0014US	United States	02/22/1999	01/08/2002	IN-LINE YIELD PREDICTION USING ADC DETERMINED KILL RATIOS, DIE HEALTH STATISTICS AND DIE STACKING
6,515,344	E0082US	United States	10/30/2000	02/04/2003	THIN OXIDE ANTI-FUSE
6,381,179	E0187US	United States	09/07/2000	04/30/2002	USING NEGATIVE GATE ERASE TO INCREASE THE CYCLING ENDURANCE OF A NON-VOLATILE MEMORY CELL WITH AN OXIDE-NITRIDE-OXIDE (ONO) STRUCTURE
6,501,681	E0188US	United States	10/04/2000	12/31/2002	USING A LOW DRAIN BIAS DURING ERASE VERIFY TO ENSURE COMPLETE REMOVAL OF RESIDUAL CHARGE IN THE NITRIDE IN SONOS NON-VOLATILE MEMORIES

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60/217,137	E0189	United States	07/10/2000		USING HOT CARRIER INJECTION TO CONTROL OVER-PROGRAMMING IN A NON-VOLATILE MEMORY CELL HAVING AN OXIDE-NITRIDE-OXIDE (ONO) STRUCTURE
6,519,182	E0189US	United States	07/10/2001	02/11/2003	USING HOT CARRIER INJECTION TO CONTROL OVER-PROGRAMMING IN A NON-VOLATILE MEMORY CELL HAVING AN OXIDE-NITRIDE-OXIDE (ONO) STRUCTURE
6,418,054	E0190US	United States	08/31/1999	07/09/2002	EMBEDDED METHODOLOGY TO PROGRAM/ERASE REFERENCE CELLS USED IN SENSING FLASH CELLS
6,288,951	E0192US	United States	09/29/2000	09/11/2001	METHOD AND APPARATUS FOR CONTINUOUSLY REGULATING A CHARGE PUMP OUTPUT VOLTAGE USING A CAPACITOR DIVIDER
6,411,069	E0193US	United States	08/31/1999	06/25/2002	CONTINUOUS CAPACITOR DIVIDER SAMPLED REGULATION SCHEME
6,204,159	E0197US	United States	07/09/1999	03/20/2001	NEW METHOD OF FORMING SELECT GATE TO IMPROVE RELIABILITY AND PERFORMANCE FOR NAND-TYPE FLASH MEMORY DEVICES
6,287,917	E0198US	United States	09/08/1999	09/11/2001	PROCESS FOR FABRICATING AN MNOS FLASH MEMORY DEVICE
6,178,129	E0208US	United States	10/19/1999	01/23/2001	SEPARATE OUTPUT POWER SUPPLY TO REDUCE OUTPUT NOISE FOR A SIMULTANEOUS OPERATION FLASH MEMORY DEVICE
6,201,747	E0233US	United States	09/30/1999	03/13/2001	METHOD AND APPARATUS FOR MEASURING SUBTHRESHOLD CURRENT IN A MEMORY ARRAY
6,259,645	E0234US	United States	04/26/2000	07/10/2001	MATCHING LOADING BETWEEN REFERENCE AND CELL WITH REDUCED TRANSISTOR COUNT IN A DUAL-BANK FLASH MEMORY
6,243,291	E0241US	United States	02/15/2000	06/05/2001	TWO-STAGE PIPELINE SENSING FOR PAGE MODE FLASH MEMORY
6,542,435	E0242	United States	03/21/2000	04/01/2003	METHOD AND APPARATUS FOR EQUALIZATION OF ADDRESS TRANSITION DETECTION PULSE WIDTH
6,160,750	E0243US	United States	02/04/2000	12/12/2000	NOISE REDUCTION DURING SIMULTANEOUS OPERATION FOR FLASH MEMORY DEVICE
6,118,702	E0244US	United States	10/19/1999	09/12/2000	SOURCE BIAS COMPENSATION FOR PAGE MODE READ OPERATION IN A FLASH MEMORY DEVICE
6,147,906	E0248US	United States	10/14/1999	11/14/2000	METHOD AND SYSTEM FOR SAVING OVERHEAD PROGRAM TIME IN A MEMORY DEVICE
6,212,098	E0249US	United States	06/22/2000	04/03/2001	VOLTAGE PROTECTION OF WRITE PROTECT CAMS
6,285,594	E0250US	United States	03/13/2000	09/04/2001	WORDLINE VOLTAGE PROTECTION
6,088,287	E0251US	United States	08/23/1999	07/11/2000	FLASH MEMORY ARCHITECTURE EMPLOYING THREE LAYER METAL INTERCONNECT
6,269,026	E0255US	United States	04/12/2000	07/31/2001	CHARGE SHARING TO HELP BOOST THE WORDLINES DURING APDE VERIFY
6,359,824	E0256US	United States	06/09/2000	03/19/2002	ACTIVATION OF WORDLINE DECODERS TO TRANSFER A HIGH VOLTAGE SUPPLY
6,144,606	E0258US	United States	10/14/1999	11/07/2000	METHOD AND SYSTEM FOR BI-DIRECTIONAL VOLTAGE REGULATION DETECTION
60/185,149	E0259	United States	02/25/2000		THREE METAL PROCESS FOR OPTIMIZING LAYOUT DENSITY
6,459,625	E0259US	United States	01/23/2001	10/01/2002	THREE METAL PROCESS FOR OPTIMIZING LAYOUT DENSITY
6,118,694	E0261US	United States	10/14/1999	09/12/2000	DISTRIBUTING CFI DEVICES IN EXISTING DECODERS
6,430,087	E0264US	United States	04/12/2000	08/06/2002	TRIMMING METHOD AND SYSTEM FOR WORDLINE BOOSTER TO MINIMIZE PROCESS VARIATION OF BOOSTED WORDLINE VOLTAGE
60/184,978	E0267	United States	02/25/2000		SERIAL SEQUENCING OF AUTOMATIC PROGRAM DISTURB ERASE VERIFY DURING A FAST ERASE MODE
6,370,065	E0267US	United States	09/22/2000	04/09/2002	SERIAL SEQUENCING OF AUTOMATIC PROGRAM DISTURB ERASE VERIFY DURING A FAST ERASE MODE
6,175,523	E0269	United States	10/25/1999	01/16/2001	PRECHARGING MECHANISM AND METHOD FOR NAND-BASED FLASH MEMORY DEVICES
6,240,020	E0270	United States	10/25/1999	05/29/2001	A METHOD OF BITLINE SHIELDING IN CONJUNCTION WITH A PRECHARGING SCHEME FOR NAND-BASED FLASH MEMORY DEVICES
6,732,308	E0275US	United States	09/19/2000	05/04/2004	INTEGRATION OF EMBEDDED AND TEST MODE TIMER
6,222,768	E0283US	United States	04/26/2000	04/24/2001	AUTO-ADJUSTING WINDOW PLACEMENT SCHEME FOR AN NROM VIRTUAL GROUND ARRAY
6,472,898	E0284US	United States	11/22/2000	10/29/2002	METHOD AND SYSTEM FOR TESTING A SEMICONDUCTOR MEMORY DEVICE
6,269,023	E0288US	United States	10/23/2000	07/31/2001	METHOD OF PROGRAMMING A NON-VOLATILE MEMORY CELL USING A CURRENT LIMITER
6,272,043	E0289US	United States	06/23/2000	08/07/2001	APPARATUS AND METHOD OF DIRECT CURRENT SENSING FROM SOURCE SIDE IN A VIRTUAL GROUND ARRAY
6,215,702	E0295US	United States	02/26/2000	04/10/2001	METHOD OF MAINTAINING CONSTANT ERASING SPEED FOR NON-VOLATILE MEMORY CELLS
6,331,952	E0296US	United States	10/26/2000	12/18/2001	POSITIVE GATE ERASURE FOR NON-VOLATILE MEMORY CELLS
6,490,205	E0297US	United States	10/26/2000	12/03/2002	METHOD OF ERASING A NON-VOLATILE MEMORY CELL USING A SUBSTRATE BIAS
6,266,281	E0298US	United States	02/16/2000	07/24/2001	METHOD OF ERASING NON-VOLATILE MEMORY CELLS
6,331,953	E0300US	United States	10/26/2000	12/18/2001	INTELLIGENT RAMPED GATE AND RAMPED DRAIN ERASURE FOR NON-VOLATILE MEMORY CELLS
6,243,300	E0301US	United States	02/16/2000	06/05/2001	SUBSTRATE HOLE INJECTION FOR NEUTRALIZING SPILLOVER CHARGE GENERATED DURING PROGRAMING OF A NON-VOLATILE MEMORY CELL
6,275,414	E0302US CON	United States	11/22/2000	08/14/2001	UNIFORM BITLINE STRAPPING OF NON-VOLATILE MEMORY CELL
6,538,270	E0303US	United States	11/22/2000	03/25/2003	STAGGERED BITLINE STRAPPING OF A NON-VOLATILE MEMORY CELL
6,593,606	E0304US	United States	11/22/2000	07/15/2003	STAGGERED BITLINE STRAPPING OF A NON-VOLATILE MEMORY CELL

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60/213,394	E0305	United States	06/23/2000		METHOD OF PROGRAMMING A NON-VOLATILE MEMORY CELL USING A SUBSTRATE BIAS
6,456,536	E0305US	United States	06/19/2001	09/24/2002	METHOD OF PROGRAMMING A NON-VOLATILE MEMORY CELL USING A SUBSTRATE BIAS
09/697,791	E0309	United States	10/26/2000		NON-VOLATILE MEMORY CELL WITH A NITRIDATED OXIDE LAYER
6,750,157	E0309US CIP	United States	07/19/2002	06/15/2004	NON-VOLATILE MEMORY CELL WITH A NITRIDATED OXIDE LAYER
6,417,081	E0311US	United States	11/22/2000	07/09/2002	PROCESS FOR REDUCTION OF CAPACITANCE OF A BITLINE FOR A NON-VOLATILE MEMORY CELL
60/227,836	E0312	United States	08/25/2000		METHOD OF PROGRAMMING A NON-VOLATILE MEMORY CELL USING A VERTICAL ELECTRIC FIELD
6,487,121	E0312US	United States	07/05/2001	11/26/2002	METHOD OF PROGRAMMING A NON-VOLATILE MEMORY CELL USING A VERTICAL ELECTRIC FIELD
60/213,397	E0313	United States	06/23/2000		METHOD OF DRAIN AVALANCHE PROGRAMMING OF A NON-VOLATILE MEMORY CELL
6,456,531	E0313US	United States	06/19/2001	09/24/2002	METHOD OF DRAIN AVALANCHE PROGRAMMING OF A NON-VOLATILE MEMORY CELL
6,618,290	E0319US	United States	06/13/2001	09/09/2003	METHOD OF PROGRAMMING A NON-VOLATILE MEMORY CELL USING A BAKING PROCESS
60/227,883	E0321	United States	08/25/2000		METHOD OF PROGRAMMING A NON-VOLATILE MEMORY CELL USING A DRAIN BIAS
6,459,618	E0321US	United States	06/13/2001	10/01/2002	METHOD OF PROGRAMMING A NON-VOLATILE MEMORY CELL USING A DRAIN BIAS
6,349,062	E0322US	United States	10/11/2000	02/19/2002	SELECTIVE ERASURE OF A NON-VOLATILE MEMORY CELL OF A FLASH MEMORY DEVICE
6,366,501	E0324US	United States	10/11/2000	04/02/2002	SELECTIVE ERASURE OF A NON-VOLATILE MEMORY CELL OF A FLASH MEMORY DEVICE
6,399,446	E0325US	United States	10/29/1999	06/04/2002	PROCESS FOR FABRICATING HIGH DENSITY MEMORY CELLS USING A METALLIC HARD MASK
6,486,029	E0328US	United States	07/28/2000	11/26/2002	INTEGRATION OF AN ION IMPLANT HARD MASK STRUCTURE INTO A PROCESS FOR FABRICATING HIGH DENSITY MEMORY CELLS
6,376,341	E0329US	United States	07/28/2000	04/23/2002	OPTIMIZATION OF THERMAL CYCLE FOR FORMATION OF POCKET IMPLANTS
6,326,268	E0330US	United States	10/25/1999	12/04/2001	METHOD OF FABRICATING A MONOS FLASH CELL USING SHALLOW TRENCH ISOLATION
6,207,502	E0331US	United States	10/25/1999	03/27/2001	METHOD OF USING SOURCE/DRAIN NITRIDE FOR PERIPHERY FIELD OXIDE AND BIT-LINE OXIDE
6,406,960	E0334US	United States	10/25/1999	06/18/2002	PROCESS FOR FABRICATING AN ONO STRUCTURE HAVING A SILICON-RICH SILICON NITRIDE LAYER
6,458,677	E0337US	United States	10/25/1999	10/01/2002	PROCESS FOR FABRICATING AN ONO STRUCTURE
6,410,388	E0338US	United States	07/20/2000	06/25/2002	PROCESS FOR OPTIMIZING POCKET IMPLANT PROFILE BY RTA IMPLANT ANNEALING FOR A NON-VOLATILE SEMICONDUCTOR DEVICE
6,537,881	E0339US	United States	10/16/2000	03/25/2003	PROCESS FOR FABRICATING A NON-VOLATILE MEMORY DEVICE
6,319,775	E0340US	United States	10/25/1999	11/20/2001	NITRIDATION PROCESS FOR FABRICATING AN ONO FLOATING GATE ELECTRODE IN A TWO-BIT EEPROM DEVICE
6,436,766	E0342US	United States	10/29/1999	08/20/2002	PROCESS FOR FABRICATING HIGH DENSITY MEMORY CELLS USING A POLYCYLICON HARD MASK
6,458,656	E0347US	United States	07/28/2000	10/01/2002	PROCESS FOR CREATING A FLASH MEMORY CELL USING A PHOTORESIST FLOW OPERATION
6,362,052	E0349US	United States	07/28/2000	03/26/2002	USE OF AN ETCH TO REDUCE THICKNESS AND ROUND THE EDGES OF A RESIST MASK DURING THE CREATION OF A MEMORY CELL
6,168,993	E0350US	United States	01/19/2000	01/02/2001	PROCESS FOR FABRICATING A SEMICONDUCTOR DEVICE HAVING A GRADED JUNCTION
6,376,308	E0351US	United States	01/19/2000	04/23/2002	PROCESS FOR FABRICATING AN EEPROM DEVICE HAVING A POCKET SUBSTRATE REGION
6,391,730	E0353US	United States	09/25/2000	05/21/2002	PROCESS FOR FABRICATING SHALLOW POCKET REGIONS IN A NON-VOLATILE SEMICONDUCTOR DEVICE
6,475,915	E0354	United States	10/19/1999	11/05/2002	ONO ETCH USING Cl ₂ /He CHEMISTRY
6,562,683	E0355	United States	08/31/2000	05/13/2003	BIT-LINE OXIDATION BY REMOVING ONO OXIDE PRIOR TO BIT-LINE IMPLANT
6,297,143	E0360US	United States	10/25/1999	10/02/2001	PROCESS FOR FORMING A BIT-LINE IN A MONOS DEVICE
60/234,523	E0363	United States	09/21/2000		HIGHLY CONDUCTIVE SEMICONDUCTOR STRUCTURES, METHOD OF FORMING SAME VIA DAMASCENE, AND ELECTRICAL DEVICES INCORPORATING HIGHLY CONDUCTIVE SEMICONDUCTOR STRUCTURES
6,627,526	E0363US	United States	03/13/2001	09/30/2003	METHOD FOR FABRICATING A CONDUCTIVE STRUCTURE FOR A SEMICONDUCTOR DEVICE
60/234,522	E0365	United States	09/21/2000		HIGHLY CONDUCTIVE SEMICONDUCTOR STRUCTURES, METHOD OF FORMING SAME VIA PLASMA ETCH, AND ELECTRICAL DEVICES INCORPORATING HIGHLY CONDUCTIVE SEMICONDUCTOR STRUCTURES
7,217,652	E0365US	United States	03/13/2001	05/15/2007	METHOD OF FORMING HIGHLY CONDUCTIVE SEMICONDUCTOR STRUCTURES VIA PLASMA ETCH
7,012,008	E0370US	United States	12/01/2000	03/14/2006	A DUAL SPACER PROCESS NON-VOLATILE MEMORY DEVICES
6,573,151	E0374	United States	06/19/2001	06/03/2003	METHOD OF FORMING ZERO MARKS
60/227,121	E0374	United States	08/22/2000		METHOD OF FORMING ZERO MARKS
6,242,306	E0376US	United States	07/28/2000	06/05/2001	DUAL BIT ISOLATION SCHEME FOR FLASH MEMORY DEVICES HAVING POLYSILICON FLOATING GATES
6,680,507	E0376US DIV	United States	04/11/2001	01/20/2004	DUAL BIT ISOLATION SCHEME FOR FLASH MEMORY DEVICES HAVING POLYSILICON FLOATING GATES
6,261,904	E0377US	United States	06/19/2000	07/17/2001	DUAL BIT ISOLATION SCHEME FOR FLASH DEVICES
6,355,514	E0378US	United States	06/19/2000	03/12/2002	DUAL BIT ISOLATION SCHEME FOR FLASH DEVICES

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PATENT OR APPL NO.	SPANSION REFERENCE NO.	COUNTRY	FILING DATE	ISSUE DATE	TITLE
6,530,068	E0407US	United States	08/03/1999	03/04/2003	DEVICE MODELING AND CHARACTERIZATION STRUCTURE WITH MULTIPLEXED PADS
6,242,790	E0421US	United States	08/30/1999	06/05/2001	USING POLYSILICON FUSE FOR IC PROGRAMMING
6,329,687	E0431US	United States	01/27/2000	12/11/2001	TWO-BIT FLASH CELL WITH TWO FLOATING GATE REGIONS
6,438,031	E0432US	United States	10/26/2000	08/20/2002	METHOD OF PROGRAMMING A NON-VOLATILE MEMORY CELL USING A SUBSTRATE BIAS
6,452,441	E0451US	United States	10/01/1999	09/17/2002	LOW THRESHOLD VOLTAGE DEVICE WITH CHARGE PUMP FOR REDUCING STANDBY CURRENT IN AN INTEGRATED CIRCUIT HAVING REDUCED SUPPLY VOLTAGE
6,284,602	E0456US	United States	09/20/1999	09/04/2001	PROCESS TO REDUCE POST CYCLING PROGRAM VT DISPERSION FOR NAND FLASH MEMORY DEVICES
6,380,033	E0457US	United States	09/20/1999	04/30/2002	PROCESS TO IMPROVE READ DISTURB FOR NAND FLASH MEMORY DEVICES
60/208,449	E0462	United States	05/31/2000		DUAL PORTED CAMS FOR SIMULTANEOUS OPERATION FLASH MEMORY
6,396,749	E0462US	United States	04/10/2001	05/28/2002	DUAL-PORTED CAMS FOR SIMULTANEOUS OPERATION FLASH MEMORY
6,377,488	E0463US	United States	08/24/2000	04/23/2002	FAST ERASE MEMORY DEVICE AND METHOD FOR REDUCING ERASE TIME IN A MEMORY DEVICE
6,567,289	E0466	United States	08/23/2000	05/20/2003	PHYSICAL MEMORY LAYOUT WITH VARIOUS SIZED MEMORY SECTORS
6,292,425	E0470US	United States	10/25/2000	09/18/2001	POWER SAVING ON THE FLY DURING READING OF DATA FROM A MEMORY DEVICE
6,654,848	E0471US	United States	09/15/2000	11/25/2003	SIMULTANEOUS EXECUTION OF COMMAND MODES IN A FLASH MEMORY DEVICE
6,957,297	E0471US CON	United States	06/23/2003	10/18/2005	SIMULTANEOUS EXECUTION OF COMMAND MODES IN A FLASH MEMORY DEVICE
6,285,583	E0472US	United States	02/17/2000	09/04/2001	HIGH SPEED SENSING TO DETECT WRITE PROTECT STATE IN A FLASH MEMORY DEVICE
6,215,705	E0476US	United States	02/10/2000	04/10/2001	SIMULTANEOUS PROGRAM, PROGRAM VERIFY SCHEME
6,236,603	E0477US	United States	01/21/2000	05/22/2001	HIGH SPEED CHARGING OF CORE CELL DRAIN LINES IN A MEMORY DEVICE
6,424,569	E0480	United States	02/25/2000	07/23/2002	USER SELECTABLE CELL PROGRAMMING
6,219,276	E0481	United States	02/25/2000	04/17/2001	MULTI-LEVEL CELL PROGRAMMING
6,205,055	E0482US	United States	02/25/2000	03/20/2001	DYNAMIC MEMORY CELL PROGRAMMING VOLTAGE
6,728,913	E0483	United States	02/25/2000	04/27/2004	DATA RECYCLING IN MEMORY
6,297,988	E0484US	United States	02/25/2000	10/02/2001	MODE INDICATOR FOR MULTI-LEVEL MEMORY
6,535,419	E0484US CON	United States	07/13/2001	03/18/2003	MIXED MODE MULTI-LEVEL INDICATOR
6,707,713	E0485	United States	02/21/2001	10/11/2004	INTERLACED MULTI-LEVEL MEMORY
6,180,454	E0497US	United States	10/29/1999	01/30/2001	METHOD FOR FORMING FLASH MEMORY DEVICES
6,376,877	E0498US	United States	02/24/2000	04/23/2002	DOUBLE SELF-ALIGNING SHALLOW TRENCH ISOLATION SEMICONDUCTOR AND MANUFACTURING METHOD THEREFOR
6,225,849	E0504US	United States	02/25/2000	05/01/2001	HIGH SPEED, HIGH PRECISION, POWER SUPPLY AND PROCESS INDEPENDENT BOOST LEVEL CLAMPING TECHNIQUE
6,495,853	E0540US	United States	08/10/2000	12/17/2002	SELF-ALIGNED GATE SEMICONDUCTOR
6,448,606	E0559US	United States	02/24/2000	09/10/2002	SEMICONDUCTOR WITH INCREASED GATE COUPLING COEFFICIENT
10/142,212	E0559US DIV	United States	05/08/2002		SEMICONDUCTOR WITH INCREASED GATE COUPLING COEFFICIENT AND MANUFACTURING METHOD THEREOF
6,622,201	E0584US	United States	03/14/2000	09/16/2003	CHAINED ARRAY OF SEQUENTIAL ACCESS MEMORIES ENABLING CONTINUOUS READ
6,449,190	E0971US	United States	01/17/2001	09/10/2002	ADAPTIVE REFERENCE CELLS FOR A MEMORY DEVICE
6,622,274	E0975US	United States	09/05/2000	09/16/2003	METHOD OF MICRO-ARCHITECTURAL IMPLEMENTATION ON BIST FRONTED STATE MACHINE UTILIZING 'DEATH LOGIC' STATE TRANSITION FOR AREA MINIMIZATION
6,587,982	E0976US	United States	09/05/2000	07/01/2003	METHOD OF MICRO-ARCHITECTURAL IMPLEMENTATION OF INTERFACE BETWEEN BIST STATE MACHINE AND TESTER INTERFACE TO ENABLE BIST CYCLING
6,969,654	E1017US	United States	11/28/2000	11/29/2005	FLASH NVROM DEVICES WITH UV CHARGE IMMUNITY
6,838,869	E1019US	United States	04/02/2001	01/04/2005	CLOCKED BASED METHOD AND DEVICES FOR MEASURING VOLTAGE-VARIABLE CAPACITANCES AND OTHER ON-CHIP PARAMETERS
6,343,033	E1021US	United States	02/25/2000	01/29/2002	VARIABLE PULSE WIDTH MEMORY PROGRAMMING
6,205,074	E1030US	United States	07/06/2000	03/20/2001	TEMPERATURE COMPENSATED BIAS GENERATOR
6,815,286	ESC001US CIP	United States	09/11/2002	11/09/2004	MEMORY DEVICE
6,806,526	ESC002US CIP	United States	11/27/2002	10/19/2004	MEMORY DEVICE
6,838,720	ESC003US CIP	United States	04/15/2003	01/04/2005	MEMORY DEVICE WITH ACTIVE AND PASSIVE LAYERS
6,858,481	ESC004US CIP	United States	04/15/2003	02/22/2005	MEMORY DEVICE WITH ACTIVE AND PASSIVE LAYERS
6,864,522	ESC005US CIP	United States	04/15/2003	03/08/2005	MEMORY DEVICE
6,768,157	ESC006US CIP	United States	04/15/2003	07/27/2004	MEMORY DEVICE
6,560,729	F0004	United States	07/03/2000	05/06/2003	AUTOMATED DETERMINATION AND DISPLAY OF THE PHYSICAL LOCATION OF A FAILED CELL IN AN ARRAY OF MEMORY CELLS
6,436,778	F0005US	United States	06/12/2001	08/20/2002	RE-OXIDATION APPROACH TO IMPROVE PERIPHERAL GATE OXIDE INTEGRITY IN A TUNNEL NITRIDE OXIDATION PROCESS
09/618,323	F0007	United States	07/18/2000		AMORPHOUS SILICON DEPOSITION AND OXIDATION FOR INCREASING ONO BARRIER HEIGHT IN FLASH MEMORY DEVICES
6,284,600	F0009US	United States	07/03/2000	09/04/2001	SPECIES IMPLANTATION FOR MINIMIZING INTERFACE DEFECT DENSITY IN FLASH MEMORY DEVICES
6,399,984	F0009US DIV	United States	06/15/2001	06/04/2002	SPECIES IMPLANTATION FOR MINIMIZING INTERFACE DEFECT DENSITY IN FLASH MEMORY DEVICES
6,403,420	F0014US	United States	07/28/2000	06/11/2002	NITROGEN IMPLANT AFTER BIT-LINE FORMATION FOR ONO FLASH MEMORY DEVICES

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PATENT OR APPL NO.	SPANSION REFERENCE NO.	COUNTRY	FILING DATE	ISSUE DATE	TITLE
6,252,803	F0055US	United States	10/23/2000	06/26/2001	AUTOMATIC PROGRAM DISTURB WITH INTELLIGENT SOFT PROGRAMMING FOR FLASH CELLS
6,407,960	F0070US	United States	09/01/2000	06/18/2002	ARRANGEMENT FOR PROGRAMMING SELECTED DEVICE REGISTERS DURING INITIALIZATION FROM AN EXTERNAL MEMORY
6,363,014	F0073US	United States	10/23/2000	03/26/2002	LOW COLUMN LEAKAGE NOR FLASH ARRAY- SINGLE CELL IMPLEMENTATION
6,449,188	F0145US	United States	06/19/2001	09/10/2002	LOW COLUMN LEAKAGE NOR FLASH ARRAY-DOUBLE CELL IMPLEMENTATION
6,331,951	F0257US	United States	11/21/2000	12/18/2001	METHOD AND SYSTEM FOR EMBEDDED CHIP ERASE VERIFICATION
6,529,412	F0258US	United States	01/16/2002	03/04/2003	SOURCE SIDE SENSING SCHEME FOR VIRTUAL GROUND READ OF FLASH EPROM ARRAY WITH ADJACENT BIT PRECHARGE
6,424,570	F0259US	United States	06/26/2001	07/23/2002	MODULATED CHARGE PUMP WHICH USES AN ANALOG TO DIGITAL CONVERTER TO COMPENSATE FOR SUPPLY VOLTAGE VARIATIONS
6,515,902	F0260US	United States	06/04/2001	02/04/2003	METHOD AND APPARATUS FOR BOOSTING BITLINES FOR LOW VCC READ
6,532,175	F0262US	United States	01/16/2002	03/11/2003	METHOD AND APPARATUS FOR SOFT PROGRAM VERIFICATION IN A MEMORY DEVICE
6,515,903	F0263US	United States	01/16/2002	02/04/2003	NEGATIVE PUMP REGULATOR USING MOS CAPACITOR
6,459,628	F0264US	United States	04/02/2001	10/01/2002	SYSTEM AND METHOD TO FACILITATE STABILIZATION OF REFERENCE VOLTAGE SIGNALS IN MEMORY DEVICES
6,549,477	F0264US DIV	United States	08/19/2002	04/15/2003	SYSTEM AND METHOD TO FACILITATE STABILIZATION OF REFERENCE VOLTAGE SIGNALS IN MEMORY DEVICES
7,057,949	F0265US	United States	01/16/2002	06/06/2006	METHOD AND APPARATUS FOR PRE-CHARGING NEGATIVE PUMP MOS REGULATION CAPACITORS
6,512,701	F0266US	United States	06/21/2001	01/28/2003	ERASE METHOD FOR DUAL BIT VIRTUAL GROUND FLASH
60/265,426	F0267	United States	01/31/2001		DATA RETENTION CHARACTERISTICS AS A RESULT OF HIGH TEMPERATURE BAKE
6,344,994	F0267US	United States	02/28/2001	02/05/2002	DATA RETENTION CHARACTERISTICS AS A RESULT OF HIGH TEMPERATURE BAKE
60/265,277	F0268	United States	01/31/2001		SINGLE BIT ARRAY EDGES
6,493,261	F0268US	United States	02/28/2001	12/10/2002	SINGLE BIT ARRAY EDGES
6,442,074	F0269US	United States	02/28/2001	08/27/2002	TAILORED ERASE METHOD USING HIGHER PROGRAM VT AND HIGHER NEGATIVE GATE ERASE
6,567,303	F0272	United States	01/16/2002	05/20/2003	CHARGE INJECTION
6,307,784	F0273US	United States	02/28/2001	10/23/2001	NEGATIVE GATE ERASE
6,456,533	F0274US	United States	02/28/2001	09/24/2002	HIGHER PROGRAM VT AND FASTER PROGRAMMING RATES BASED ON IMPROVED ERASE METHODS
6,590,811	F0274US DIV	United States	06/17/2002	07/08/2003	HIGHER PROGRAM VT AND FASTER PROGRAMMING RATES BASED ON IMPROVED ERASE METHODS
6,900,085	F0279US	United States	06/26/2001	05/31/2005	ESD IMPLANT FOLLOWING SPACER DEPOSITION
6,465,303	F0280US	United States	06/20/2001	10/15/2002	METHOD OF MANUFACTURING SPACER ETCH MASK FOR SILICON-OXIDE-NITRIDE-OXIDE-SILICON (SONOS) TYPE NONVOLATILE MEMORY
6,630,384	F0282US	United States	10/05/2001	10/07/2003	METHOD OF FABRICATING DOUBLE DENSED CORE GATES IN SONOS FLASH MEMORY
6,566,194	F0283	United States	10/01/2001	05/20/2003	SALICIDED GATE FOR VIRTUAL GROUND ARRAYS
6,645,801	F0284US	United States	10/01/2001	11/11/2003	SALICIDED GATE FOR VIRTUAL GROUND ARRAYS
6,596,591	F0285US	United States	12/18/2000	07/22/2003	METHODS TO FORM REDUCED DIMENSION BIT-LINE ISOLATION IN THE MANUFACTURE OF NON-VOLATILE MEMORY DEVICES
6,770,938	F0466US	United States	01/16/2002	08/03/2004	IMPROVED DIODE FABRICATION FOR ESD/EOS PROTECTION
6,524,914	F0499US	United States	10/30/2000	02/25/2003	SOURCE SIDE BORON IMPLANTING AND DIFFUSING DEVICE ARCHITECTURE FOR DEEP SUBSTANCE 0.18UM FLASH MEMORY
6,589,804	F0636US	United States	07/12/2001	07/08/2003	OXIDE/NITRIDE OR OXIDE/NITRIDE/OXIDE THICKNESS MEASUREMENT USING SCATTEROMETRY
6,500,768	F0750US	United States	10/30/2000	12/31/2002	METHOD FOR SELECTIVE REMOVAL OF ONO LAYER
6,356,482	F0752US	United States	09/07/2000	03/12/2002	USING NEGATIVE GATE ERASE VOLTAGE TO SIMULTANEOUSLY ERASE TWO BITS FROM A NON-VOLATILE MEMORY CELL WITH AN OXIDE-NITRIDE-OXIDE (ONO) STRUCTURE
6,549,466	F0753	United States	09/07/2000	04/15/2003	USING A NEGATIVE GATE ERASE VOLTAGE APPLIED IN STEPS OF DECREASING AMOUNTS TO REDUCE ERASE TIME FOR A NON-VOLATILE MEMORY CELL WITH AN OXIDE-NITRIDE-OXIDE (ONO) STRUCTURE
6,693,009	F0756US	United States	11/15/2000	02/17/2004	FLASH MEMORY CELL WITH MINIMIZED FLOATING GATE TO DRAIN/SOURCE OVERLAP FOR MINIMIZING CHARGE LEAKAGE
6,489,253	F0899	United States	02/16/2001	12/03/2002	METHOD OF FORMING A VOID-FREE INTERLAYER DIELECTRIC (ILD0) FOR 0.18-UM FLASH MEMORY TECHNOLOGY AND SEMICONDUCTOR DEVICE THEREBY FORMED
6,627,973	F0899US DIV	United States	09/13/2002	09/30/2003	VOID-FREE INTERLAYER DIELECTRIC (ILD0) FOR 0.18-MICRON FLASH MEMORY SEMICONDUCTOR DEVICE
6,306,707	F0902US	United States	11/20/2000	10/23/2001	DOUBLE LAYER HARD MASK TO IMPROVE OXIDE QUALITY FOR NON-VOLATILE FLASH MEMORY PRODUCTS
6,400,624	F0911US	United States	02/26/2001	06/04/2002	CONFIGURE REGISTERS AND LOADS TO TAILOR A MULTI-LEVEL CELL FLASH DESIGN
6,424,566	F0912US	United States	02/08/2001	07/23/2002	PROGRAM RECONNAISSANCE TO ELIMINATE VARIATIONS IN VT DISTRIBUTIONS OF MULTI-LEVEL CELL FLASH MEMORY DESIGNS
6,684,353	F0913US	United States	12/07/2000	01/27/2004	RELIABILITY MONITOR FOR MEMORY ARRAY
6,785,856	F0915US	United States	12/07/2000	08/31/2004	INTERNAL SELF-TEST CIRCUIT FOR A MEMORY ARRAY
6,452,869	F0916	United States	02/26/2001	09/17/2002	ADDRESS BROADCASTING TO A PAGED DEVICE TO ELIMINATE ACCESS LATENCY PENALTY
6,466,483	F0917US	United States	02/08/2001	10/15/2002	PIGGYBACK PROGRAMMING USING TIMING CONTROL FOR MULTI-LEVEL CELL FLASH MEMORY DEVICE

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PATENT OR APPL NO.	SPANSON REFERENCE NO.	COUNTRY	FILING DATE	ISSUE DATE	TITLE
6,418,053	F0918US	United States	02/08/2001	07/09/2002	PIGGYBACK PROGRAMMING USING GRADUATED STEPS FOR MULTI-LEVEL CELL FLASH MEMORY DESIGNS
7,872,916	F0919TW	United States	12/09/2008	01/18/2011	DETERMINISTIC-PROGRAMMING METHODOLOGY FOR FLASH MEMORY DEVICES
6,614,683	F0920US	United States	02/26/2001	09/02/2003	ASCENDING STAIRCASE READ TECHNIQUE FOR A MULTILEVEL CELL NAND FLASH MEMORY DEVICE
6,307,783	F0921	United States	02/26/2001	10/23/2001	DESCENDING STAIRCASE READ TECHNIQUE FOR A MULTILEVEL CELL NAND FLASH MEMORY DEVICE
6,671,207	F0922US	United States	02/08/2001	12/30/2003	PIGGYBACK PROGRAMMING WITH STAIRCASE VERIFY FOR MULTI-LEVEL CELL MEMORY DESIGNS
6,552,929	F0923	United States	02/08/2001	04/22/2003	PIGGYBACK PROGRAMMING USING AN EXTENDED FIRST PULSE FOR MULTI-LEVEL CELL FLASH MEMORY DESIGNS
6,496,410	F0924US	United States	02/08/2001	12/17/2002	CONCURRENT PROGRAM RECONNAISSANCE WITH PIGGYBACK PULSES FOR MULTI-LEVEL CELL FLASH MEMORY DESIGNS
6,538,923	F0925US	United States	02/26/2001	03/25/2003	STAIRCASE PROGRAM VERIFY FOR MULTILEVEL CELL FLASH MEMORY DESIGNS
6,653,189	F0932US	United States	10/30/2000	11/25/2003	SOURCE SIDE BORON IMPLANT AND DRAIN SIDE MDD IMPLANT FOR DEEP SUB 0.18 MICRON FLASH MEMORY
7,002,381	F0958US	United States	12/11/2001	02/21/2006	SWITCHED-CAPACITOR CONTROLLER TO CONTROL THE RISE TIMES OF ON-CHIP GENERATED HIGH VOLTAGES
6,966,016	F1024US	United States	04/16/2001	11/15/2005	SYSTEM AND METHOD FOR ERASE TEST OF INTEGRATED CIRCUIT DEVICE HAVING NON-HOMOGENEOUSLY SIZED SECTORS
6,534,363	F1053US	United States	03/12/2001	03/18/2003	HIGH VOLTAGE OXIDATION METHOD FOR HIGHLY RELIABLE FLASH MEMORY DEVICES
6,514,822	F1054US	United States	04/27/2001	02/04/2003	METHOD AND SYSTEM FOR REDUCING THINNING OF FIELD ISOLATION STRUCTURES IN A FLASH MEMORY DEVICE
6,438,037	F1067US	United States	05/09/2001	08/20/2002	THRESHOLD VOLTAGE COMPACTING FOR NON-VOLATILE SEMICONDUCTOR MEMORY DESIGNS
6,376,312	F1097US	United States	03/26/2001	04/23/2002	FORMATION OF NON-VOLATILE MEMORY DEVICE COMPRISED OF AN ARRAY OF VERTICAL FIELD EFFECT TRANSISTOR STRUCTURES
60/273,615	F1101	United States	03/05/2001		PASSWORD DYNAMIC PROTECTION OF FLASH MEMORY DATA
6,731,536	F1101US	United States	03/05/2002	05/04/2004	PASSWORD AND DYNAMIC PROTECTION OF FLASH MEMORY DATA
7,453,116	F1104US DIV	United States	03/07/2006	11/18/2008	SEMICONDUCTOR MEMORY DEVICE AND METHOD OF FABRICATING THE SAME
6,873,022	F1114US	United States	09/19/2003	03/29/2005	SEMICONDUCTOR DEVICE AND METHOD FOR MANUFACTURING THE SAME
7,202,540	F1123US	United States	02/28/2005	04/10/2007	SEMICONDUCTOR MEMORY DEVICE
7,759,745	F1123US CON	United States	01/23/2007	07/20/2010	SEMICONDUCTOR MEMORY DEVICE
7,482,226	F1123US DIV	United States	01/23/2007	01/27/2009	SEMICONDUCTOR MEMORY DEVICE
8,542,051	FMA13-	United States	08/25/2011	09/24/2013	LEVEL SHIFT CIRCUIT AND SEMICONDUCTOR DEVICE
5,594,382	FMA13-0001JP	United States	03/20/1995	01/14/1997	CONSTANT VOLTAGE CIRCUIT
5,530,818	FMA13-0002JP	United States	07/08/1993	06/25/1996	SEMICONDUCTOR INTEGRATED CIRCUIT DEVICE FOR OPTIONALLY SELECTING THE CORRESPONDENCE BETWEEN A CHIP-SELECT SIGNAL AND ADDRESS SPACE
5,406,232	FMA13-0003JP	United States	07/28/1993	04/11/1995	SEMICONDUCTOR CAPACITOR ELEMENT AND A CIRCUIT EMPLOYING THE SAME
5,650,741	FMA13-0005JP	United States	03/27/1996	07/22/1997	POWER LINE CONNECTION CIRCUIT AND POWER LINE SWITCH IC FOR THE SAME
5,606,282	FMA13-0008JP	United States	04/12/1996	02/25/1997	TRANSIMPEDANCE AMPLIFIER
5,488,327	FMA13-0009JP	United States	12/28/1994	01/30/1996	SUPPLY VOLTAGE GENERATOR
5,617,310	FMA13-0011KR	United States	03/16/1995	04/01/1997	MULTIPLE OPERATION MODE MICROCONTROLLER
5,671,186	FMA13-0014KR	United States	06/01/1995	09/23/1997	SEMICONDUCTOR MEMORY DEVICE HAVING BIT LINE PRECHARGER
5,528,171	FMA13-0015KR	United States	09/19/1994	06/18/1996	ECL-TO-CMOS SIGNAL LEVEL CONVERTER
5,905,361	FMA13-0017TW	United States	08/31/1995	05/18/1999	CHARGING-AND-DISCHARGING DEVICE, CONSTANT-VOLTAGE AND CONSTANT-CURRENT CONTROL CIRCUIT, AND ELECTRONIC DEVICE
8,832,460	FMA13-00191US	United States	10/16/2009	09/09/2014	INTER-BUS COMMUNICATION INTERFACE DEVICE AND DATA SECURITY DEVICE
5,822,762	FMA13-0022TW	United States	09/26/1995	10/13/1998	INFORMATION PROCESSING DEVICE WITH DECISION CIRCUITS AND PARTITIONED ADDRESS AREAS
5,739,667	FMA13-0024KR	United States	12/26/1995	04/14/1998	CONTROL SYSTEM FOR CHARGING BATTERIES AND ELECTRONIC APPARATUS USING SAME
6,535,960	FMA13-0024US	United States	05/08/1998	03/18/2003	PARTITIONED CACHE MEMORY WITH SWITCHABLE ACCESS PATHS
7,586,371	FMA13-00303US	United States	10/30/2006	09/08/2009	REGULATOR CIRCUIT
8,456,235	FMA13-00303US DIV	United States	08/04/2009	06/04/2013	REGULATOR CIRCUIT
7,873,875	FMA13-00304US	United States	07/26/2007	01/18/2011	DEBUGGING SYSTEM, DEBUGGING CIRCUIT AND INFORMATION PROCESSING APPARATUS
11/360,603	FMA13-00305US	United States	02/24/2006		IMAGE PROCESSOR AND IMAGE PROCESSING METHOD
8,630,511	FMA13-00305US CIP	United States	09/14/2006	01/14/2014	IMAGE PROCESSING APPARATUS AND METHOD FOR IMAGE RESIZING MATCHING DATA SUPPLY SPEED
7,791,306	FMA13-00306US	United States	08/28/2007	09/07/2010	APPARATUS, METHOD, AND SYSTEM FOR CONTROLLING STEPPING MOTOR
8,311,054	FMA13-00307US	United States	09/29/2006	11/13/2012	TRANSMITTING/RECEIVING SYSTEM, NODE AND COMMUNICATION METHOD
8,078,887	FMA13-00308US	United States	03/06/2008	12/13/2011	POWER SUPPLY VOLTAGE REGULATOR CIRCUIT AND MICROCOMPUTER
7,847,607	FMA13-00309US	United States	11/26/2007	12/07/2010	PLL CIRCUIT
8,032,794	FMA13-00310US	United States	07/26/2007	10/04/2011	ERROR PROCESSING METHOD AND INFORMATION PROCESSING APPARATUS

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PATENT OR APPL NO.	SPANSION REFERENCE NO.	COUNTRY	FILING DATE	ISSUE DATE	TITLE
8,527,254	FMA13-00311US	United States	02/01/2008	09/03/2013	SIMULATOR ENGINE DEVELOPMENT SYSTEM AND SIMULATOR ENGINE DEVELOPMENT METHOD
7,683,598	FMA13-00312US	United States	10/25/2007	03/23/2010	POWER SUPPLY CIRCUIT, POWER SUPPLY CONTROL CIRCUIT, AND POWER SUPPLY CONTROL METHOD
7,876,076	FMA13-00313US	United States	04/23/2007	01/25/2011	CIRCUIT FOR PREVENTING THROUGH CURRENT IN DC-DC CONVERTER
7,656,143	FMA13-00314US	United States	07/13/2007	02/02/2010	DC-DC CONVERTER
7,948,219	FMA13-00315US	United States	09/25/2007	05/24/2011	CONTROL CIRCUIT OF SYNCHRONOUS RECTIFICATION TYPE POWER SUPPLY UNIT, SYNCHRONOUS RECTIFICATION TYPE POWER SUPPLY UNIT AND CONTROL METHOD THEREOF
8,725,485	FMA13-00316US	United States	02/26/2008	05/13/2014	SIMULATION METHOD AND SIMULATION APPARATUS
7,777,474	FMA13-00317US	United States	04/26/2007	08/17/2010	DC-DC CONVERTER WITH OSCILLATOR AND MONITORING FUNCTION
8,079,014	FMA13-00318US	United States	07/09/2007	12/13/2011	SOFTWARE DEVELOPMENT APPARATUS AND METHOD
7,944,190	FMA13-00319US	United States	08/15/2007	05/17/2011	CONTROL CIRCUIT OF POWER SUPPLY UNIT WHICH CONTROLS OUTPUT POWER OF EXTERNAL POWER SUPPLY BASED UPON CURRENT FROM THE EXTERNAL POWER SUPPLY, POWER SUPPLY UNIT AND CONTROL METHOD THEREOF
7,957,165	FMA13-00320US	United States	02/15/2008	06/07/2011	DC-DC CONVERTER WITH A PLURALITY OF SOFT-START CONTROL CIRCUITS
7,952,234	FMA13-00321US	United States	02/07/2008	05/31/2011	POWER SUPPLY CIRCUIT, POWER SUPPLY CONTROL CIRCUIT AND POWER SUPPLY CONTROL METHOD
8,406,364	FMA13-00322US	United States	02/20/2008	03/26/2013	FRACTIONAL FREQUENCY DIVIDER PLL DEVICE AND CONTROL METHOD THEREOF
7,696,738	FMA13-00323US	United States	09/14/2007	04/13/2010	METHOD AND CIRCUIT FOR CONTROLLING DC-DC CONVERTER
8,117,524	FMA13-00324US	United States	03/13/2008	02/14/2012	DATA RECOVERY CIRCUIT
8,423,834	FMA13-00325US	United States	02/25/2008	04/16/2013	COMPUTER SYSTEM AND MEMORY SYSTEM
7,821,236	FMA13-00327US	United States	11/09/2007	10/26/2010	CONTROL CIRCUIT FOR DETECTING A REVERSE CURRENT IN A DC- DC CONVERTER
7,843,179	FMA13-00328US	United States	11/09/2007	11/30/2010	CONTROL CIRCUIT FOR SYNCHRONOUS RECTIFIER-TYPE DC-DC CONVERTER, SYNCHRONOUS RECTIFIER-TYPE DC-DC CONVERTER AND CONTROL METHOD THEREOF
7,733,074	FMA13-00329US	United States	11/08/2007	06/08/2010	CONTROL CIRCUIT OF CURRENT MODE DC-DC CONVERTER AND CONTROL METHOD OF CURRENT MODE DC-DC CONVERTER
7,649,391	FMA13-00330US	United States	03/14/2008	01/19/2010	CLOCK SIGNAL TRANSMISSION CIRCUIT
8,760,133	FMA13-00331PCT	United States	10/21/2008	06/24/2014	LINEAR DROP-OUT REGULATOR CIRCUIT (as amended)
7,532,071	FMA13-00333US	United States	11/15/2007	05/12/2009	OPERATIONAL AMPLIFIER CIRCUIT
8,605,756	FMA13-00334JP	United States	04/28/2010	12/10/2013	SIGNAL PROCESSOR AND COMMUNICATION DEVICE
8,278,983	FMA13-00334US CON	United States	11/01/2010	10/02/2012	PLL CIRCUIT
8,638,140	FMA13-00334US DIV	United States	07/26/2012	01/28/2014	PLL CIRCUIT
8,067,964	FMA13-00335US	United States	03/14/2007	11/29/2011	OUTPUT CIRCUIT
7,801,178	FMA13-00337US	United States	03/12/2008	09/21/2010	IEEE 1394 TRANSMITTER, IEEE 1394 RECEIVER AND AUDIO DATA CONTENT TRANSMISSION METHOD
8,248,046	FMA13-00338US	United States	03/17/2008	08/21/2012	DC-DC CONVERTER FOR PULSE FREQUENCY MODULATION CONTROL AND POWER SUPPLY SYSTEM
8,933,682	FMA13-00339JP	United States	08/10/2010	01/13/2015	BAND GAP REFERENCE CIRCUIT
7,714,557	FMA13-00340US	United States	03/27/2008	05/11/2010	DC-DC CONVERTER, POWER SUPPLY SYSTEM, AND POWER SUPPLY METHOD
8,072,199	FMA13-00341US	United States	03/25/2008	12/06/2011	CONTROL CIRCUIT FOR STEP-DOWN DC-DC CONVERTER, STEP- DOWN DC-DC CONVERTER AND CONTROL METHOD THEREOF
8,516,441	FMA13-00342US	United States	03/08/2007	08/20/2013	SOFTWARE OPTIMIZATION DEVICE AND SOFTWARE OPTIMIZATION METHOD
8,745,446	FMA13-00343PCT	United States	03/23/2010	06/03/2014	INTEGRATED CIRCUIT, DEBUGGING CIRCUIT, AND DEBUGGING COMMAND CONTROL METHOD
8,972,795	FMA13-00343US	United States	11/27/2013	03/03/2015	PROCESSOR SYSTEM OPTIMIZATION (as amended)
7,045,990	FMA13-00344TW	United States	09/22/2003	05/16/2006	PORTABLE DEVICE HAVING A CHARGING CIRCUIT AND SEMICONDUCTOR DEVICE FOR USE IN THE CHARGING CIRCUIT OF THE SAME
12/625,041	FMA13-00346JP	United States	11/24/2009		INTERFACE APPARATUS AND RESYNCHRONIZATION METHOD
7,982,431	FMA13-00347US	United States	02/14/2008	07/19/2011	DETECTION CIRCUIT
8,618,781	FMA13-00348JP DIV2	United States	10/23/2009	12/31/2013	OUTPUT VOLTAGE CONTROLLER, ELECTRONIC DEVICE, AND OUTPUT VOLTAGE CONTROL METHOD
7,894,221	FMA13-00350US	United States	01/28/2008	02/22/2011	DETECTION CIRCUIT
8,139,895	FMA13-00351US	United States	03/18/2008	03/20/2012	IMAGE RECOGNITION DEVICE AND IMAGE ROTATING METHOD
8,659,346	FMA13-00352PCT	United States	07/13/2010	02/25/2014	BODY-BIAS VOLTAGE CONTROLLER AND METHOD OF CONTROLLING BODY-BIAS VOLTAGE
8,575,898	FMA13-00353PCT	United States	02/01/2010	11/05/2013	CHARGING CIRCUIT, CHARGING APPARATUS, ELECTRONIC EQUIPMENT AND CHARGING METHOD
14/085,013	FMA13-00353US	United States	11/20/2013		SIGNAL PROCESSOR AND COMMUNICATION DEVICE
8,593,126	FMA13-00356JP	United States	05/15/2012	11/26/2013	POWER SUPPLY DEVICE, CONTROL CIRCUIT, ELECTRONIC DEVICE AND CONTROL METHOD FOR POWER SUPPLY
8,385,128	FMA13-00357CN DIV	United States	02/03/2011	02/26/2013	SEMICONDUCTOR MEMORY
12/791,280	FMA13-00357TW	United States	06/01/2010		MULTIPLEXING AUXILIARY PROCESSING ELEMENT AND SEMICONDUCTOR INTEGRATED CIRCUIT
8,234,613	FMA13-00358US	United States	07/02/2009	07/31/2012	PROGRAM, DESIGN APPARATUS, AND DESIGN METHOD FOR DYNAMIC RECONFIGURABLE CIRCUIT
7,990,207	FMA13-00359US	United States	05/06/2008	08/02/2011	CONSTANT VOLTAGE CIRCUIT, CONSTANT VOLTAGE SUPPLY SYSTEM AND CONSTANT VOLTAGE SUPPLY METHOD
7,956,586	FMA13-00360JP DIV	United States	06/15/2007	06/07/2011	STEP-UP/STEP-DOWN TYPE DC-DC CONVERTER, AND CONTROL CIRCUIT AND CONTROL METHOD OF THE SAME

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PATENT OR APPL NO.	SPANSON REFERENCE NO.	COUNTRY	FILING DATE	ISSUE DATE	TITLE
7,805,650	FMA13-00361US	United States	09/11/2008	09/28/2010	SEMICONDUCTOR INTEGRATED CIRCUIT AND DEBUG MODE DETERMINATION METHOD
8,352,533	FMA13-00364US	United States	12/11/2008	01/08/2013	SEMICONDUCTOR INTEGRATED CIRCUIT IN A CARRY COMPUTATION NETWORK HAVING A LOGIC BLOCKS WHICH ARE DYNAMICALLY RECONFIGURABLE
8,422,404	FMA13-00365US	United States	03/27/2009	04/16/2013	METHOD AND DEVICE FOR TRANSMITTING PACKETS
8,237,417	FMA13-00366US	United States	11/19/2008	08/07/2012	DC-DC CONVERTER, DC-DC CONVERTER CONTROL METHOD, AND ELECTRONIC DEVICE
8,621,643	FMA13-00368JP	United States	12/11/2011	12/31/2013	SEMICONDUCTOR DEVICE
14/149,628	FMA13-00369JP DIV	United States	01/07/2014		MULTI-LAYER INTER-GATE DIELECTRIC STRUCTURE
8,504,862	FMA13-00369US	United States	07/31/2008	08/06/2013	DEVICE AND METHOD FOR PREVENTING LOST SYNCHRONIZATION
8,775,853	FMA13-00369US CIP	United States	04/16/2013	07/08/2014	DEVICE AND METHOD FOR PREVENTING LOST SYNCHRONIZATION
8,850,257	FMA13-00369US CON	United States	06/26/2013	09/30/2014	DEVICE AND METHOD FOR PREVENTING LOST SYNCHRONIZATION
6,118,316	FMA13-0036JP	United States	11/15/1996	09/12/2000	SEMICONDUCTOR INTEGRATED CIRCUIT INCLUDING PLURALITY OF PHASE-LOCKED LOOPS
8,283,934	FMA13-00370US	United States	03/10/2009	10/09/2012	CAPACITANCE SENSOR FOR DETECTING A CHARGE VOLTAGE OF A MULTI-CAPACITOR CIRCUIT
8,299,765	FMA13-00371US	United States	02/12/2009	10/30/2012	POWER SUPPLY CONTROL DEVICE AND POWER SUPPLY CONTROL METHOD
8,107,487	FMA13-00372US	United States	05/01/2009	01/31/2012	PACKET COMMUNICATION DEVICE FOR COMMUNICATING PACKET TO BE TRANSFERRED THROUGH PACKET COMMUNICATION WHICH IS TIME-MANAGED IN CONSTANT CYCLE AND PACKET COMMUNICATION METHOD THEREOF
8,824,469	FMA13-00372US DIV	United States	12/07/2011	09/02/2014	PACKET COMMUNICATION DEVICE FOR COMMUNICATING PACKET TO BE TRANSFERRED THROUGH PACKET COMMUNICATION WHICH IS TIME-MANAGED IN CONSTANT CYCLE AND PACKET COMMUNICATION METHOD THEREOF
8,233,257	FMA13-00373US	United States	02/12/2009	07/31/2012	POWER SUPPLY CIRCUIT, OVERCURRENT PROTECTION CIRCUIT FOR THE SAME, AND ELECTRONIC DEVICE
7,990,134	FMA13-00374US	United States	03/06/2009	08/02/2011	CORRECTING CIRCUIT, CORRECTING METHOD, AND SENSOR APPARATUS
12/428,212	FMA13-00375US	United States	04/22/2009		LINE PLOTTING METHOD
7,403,582	FMA13-00379JP DIV2	United States	07/27/2004	07/22/2008	SERIAL COMMUNICATION DEVICE
6,765,420	FMA13-00380TW	United States	12/24/2002	07/20/2004	PULSE WIDTH DETECTION CIRCUIT FILTERING THE INPUT SIGNAL AND GENERATING A BINARY SIGNAL
7,012,454	FMA13-00381TW	United States	03/10/2004	03/14/2006	CLOCK SHIFT CIRCUIT FOR GRADUAL FREQUENCY CHANGE
7,336,124	FMA13-00381US	United States	06/08/2006	02/26/2008	OPERATIONAL AMPLIFIER, LINE DRIVER, AND LIQUID CRYSTAL DISPLAY DEVICE
7,880,537	FMA13-00381US DIV	United States	12/19/2007	02/01/2011	OPERATIONAL AMPLIFIER, LINE DRIVER, AND LIQUID CRYSTAL DISPLAY DEVICE
6,516,378	FMA13-00382TW	United States	10/26/1999	02/04/2003	MICROPROCESSOR FOR CONTROLLING BUSES
5,990,742	FMA13-00383US	United States	05/13/1998	11/23/1999	DIFFERENTIAL AMPLIFIER CIRCUIT
8,595,562	FMA13-00389JP	United States	01/26/2011	11/26/2013	SEMICONDUCTOR INTEGRATED CIRCUIT, OPERATING METHOD OF SEMICONDUCTOR INTEGRATED CIRCUIT, AND DEBUG SYSTEM
14/137,203	FMA13-00389US	United States	12/20/2013		DC-DC CONVERTER WITH ADAPTIVE PHASE COMPENSATION CONTROLLER
5,883,527	FMA13-0038KR	United States	01/28/1997	03/16/1999	TRI-STATE OUTPUT CIRCUIT FOR SEMICONDUCTOR DEVICE
8,063,667	FMA13-00392US	United States	06/12/2009	11/22/2011	PEAK HOLD CIRCUIT
8,285,902	FMA13-00394US	United States	12/10/2009	10/09/2012	DATA TRANSFER APPARATUS AND DATA TRANSFER METHOD
8,190,928	FMA13-00397US	United States	02/25/2009	05/29/2012	POWER-ON DETECTION CIRCUIT AND MICROCONTROLLER
8,248,043	FMA13-00398US	United States	11/12/2009	08/21/2012	CONTROL CIRCUIT FOR DC-DC CONVERTER, CONTROL METHOD FOR DC-DC CONVERTER, AND ELECTRONIC DEVICE
8,680,832	FMA13-00402US	United States	11/27/2012	03/25/2014	CONTROL CIRCUIT OF STEP-DOWN DC-DC CONVERTER, CONTROL CIRCUIT OF STEP-UP DC-DC CONVERTER AND STEP-UP/STEP-DOWN DC-DC CONVERTER
14/220,628	FMA13-00402US DIV	United States	03/20/2014		CONTROL CIRCUIT OF STEP-DOWN DC-DC CONVERTER, CONTROL CIRCUIT OF STEP-UP DC-DC CONVERTER AND STEP-UP/STEP-DOWN DC-DC CONVERTER
8,578,216	FMA13-00403JP	United States	03/11/2010	11/05/2013	EXECUTION HISTORY TRACING METHOD
8,291,360	FMA13-00405US	United States	07/15/2009	10/16/2012	DATA CONVERSION APPARATUS, METHOD, AND COMPUTER-READABLE RECORDING MEDIUM STORING PROGRAM FOR GENERATING CIRCUIT CONFIGURATION INFORMATION FROM CIRCUIT DESCRIPTION
7,889,568	FMA13-00406US	United States	07/14/2009	02/15/2011	MEMORY, MEMORY OPERATING METHOD, AND MEMORY SYSTEM
8,522,081	FMA13-00408US	United States	11/13/2008	08/27/2013	MICROCOMPUTER OUTPUTTING FAILURE DETECTION RESULT
8,462,167	FMA13-00409US	United States	10/29/2009	06/11/2013	MEMORY ACCESS CONTROL CIRCUIT AND IMAGE PROCESSING SYSTEM
5,850,137	FMA13-0040JP DIV	United States	12/02/1996	12/15/1998	CHARGING APPARATUS AND CURRENT/VOLTAGE DETECTOR FOR USE THEREIN
7,965,476	FMA13-00411US	United States	12/11/2009	06/21/2011	CURRENT PRODUCING CIRCUIT, CURRENT PRODUCING METHOD, AND ELECTRONIC DEVICE
7,952,509	FMA13-00414US	United States	11/17/2009	05/31/2011	SUCCESSIVE APPROXIMATION A/D CONVERTER
12/354,413	FMA13-00416US	United States	01/15/2009		POWER SUPPLY APPARATUS AND POWER SUPPLY METHOD
8,324,873	FMA13-00416US CIP	United States	12/13/2009	12/04/2012	POWER SUPPLY APPARATUS AND POWER SUPPLY METHOD
13/746,477	FMA13-00417US	United States	01/22/2013		ANALOG CIRCUIT CELL ARRAY HAVING A PLURALITY OF TRANSISTORS EACH INCLUDING TWO CONNECTED GATE ELECTRODES AND TWO CONNECTED SOURCE REGIONS (as amended)

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PATENT OR APPL NO.	SPANSON REFERENCE NO.	COUNTRY	FILING DATE	ISSUE DATE	TITLE
7,948,304	FMA13-00419US	United States	11/16/2009	05/24/2011	CONSTANT-VOLTAGE GENERATING CIRCUIT AND REGULATOR CIRCUIT
5,793,257	FMA13-0041JP	United States	01/06/1997	08/11/1998	OSCILLATOR HAVING SWITCHING CAPACITORS AND PHASE-LOCKED LOOP EMPLOYING SAME
8,593,447	FMA13-00420JP	United States	06/04/2010	11/26/2013	VOLTAGE ADJUSTMENT CIRCUIT AND DISPLAY DEVICE DRIVING CIRCUIT
14/068,652	FMA13-00420US	United States	10/31/2013		EXECUTION HISTORY TRACING METHOD
14/218,169	FMA13-00421US	United States	03/18/2014		DEBUG CONTROL CIRCUIT
8,570,021	FMA13-00422JP	United States	06/14/2010	10/29/2013	DC/DC CONVERTER AND DC/DC CONVERTER CONTROL METHOD
12/795,462	FMA13-00423JP	United States	06/07/2010		COMPUTER SYSTEM INCLUDING RECONFIGURABLE ARITHMETIC DEVICE WITH NETWORK OF PROCESSOR ELEMENTS (as amended)
8,107,299	FMA13-00424US	United States	11/17/2009	01/31/2012	SEMICONDUCTOR MEMORY AND METHOD AND SYSTEM FOR ACTUATING SEMICONDUCTOR MEMORY
13/022,992	FMA13-00425JP	United States	02/08/2011		RECEIVING APPARATUS AND METHOD FOR SETTING GAIN
7,961,055	FMA13-00426US	United States	11/12/2009	06/14/2011	PLL CIRCUIT AND OSCILLATOR DEVICE
5,818,303	FMA13-0042TW	United States	07/24/1997	10/06/1998	FRACTIONAL N-FREQUENCY SYNTHESIZER AND SPURIOUS SIGNAL CANCEL CIRCUIT
8,718,571	FMA13-00433JP	United States	06/04/2010	05/06/2014	OUTPUT CIRCUIT OF HIGH-FREQUENCY TRANSMITTER
14/089,048	FMA13-00433US	United States	11/25/2013		VOLTAGE ADJUSTMENT CIRCUIT AND DISPLAY DEVICE DRIVING CIRCUIT
8,587,265	FMA13-00434JP	United States	03/04/2010	11/19/2013	CONTROL CIRCUIT FOR DC-DC CONVERTER, DC-DC CONVERTER, AND METHOD FOR CONTROLLING DC-DC CONVERTER
7,625,118	FMA13-00435JP	United States	09/25/2007	12/01/2009	CIRCUIT FOR CORRECTING SENSOR TEMPERATURE CHARACTERISTICS
8,572,592	FMA13-00436JP	United States	02/09/2006	10/29/2013	EXTENDED LANGUAGE SPECIFICATION ASSIGNING METHOD, PROGRAM DEVELOPING METHOD AND COMPUTER-READABLE STORAGE MEDIUM
8,035,367	FMA13-00439US	United States	03/27/2009	10/11/2011	ELECTRONIC DEVICE, DETECTION CIRCUIT AND VOLTAGE CONTROL METHOD
5,870,000	FMA13-0043TW	United States	02/24/1997	02/09/1999	OSCILLATION CIRCUIT AND PLL CIRCUIT USING SAME
12/606,870	FMA13-00440JP	United States	10/27/2009		COMMUNICATION APPARATUS, DATA COMMUNICATION METHOD, AND NETWORK SYSTEM
8,841,874	FMA13-00442JP	United States	07/22/2011	09/23/2014	METHOD OF DETECTING AN OPERATING CONDITION OF AN ELECTRIC STEPPER MOTOR
7,098,147	FMA13-00444JP	United States	08/20/2003	08/29/2006	SEMICONDUCTOR MEMORY DEVICE AND METHOD FOR MANUFACTURING SEMICONDUCTOR DEVICE
8,314,599	FMA13-00445US	United States	06/05/2009	11/20/2012	DC/DC CONVERTER CONTROL CIRCUIT AND DC/DC CONVERTER CONTROL METHOD
8,922,181	FMA13-00446JP	United States	06/21/2010	12/30/2014	POWER CONTROL CIRCUIT PERFORMING SOFT START OPERATION, POWER SUPPLY DEVICE, AND ELECTRONIC DEVICE
6,366,767	FMA13-00448JP DIV	United States	05/11/1999	04/02/2002	LOCAL OSCILLATION CIRCUIT AND A RECEIVING CIRCUIT INCLUDING THE LOCAL OSCILLATION CIRCUIT
6,922,794	FMA13-00449TW	United States	09/24/2001	07/26/2005	MICROCOMPUTER WITH DEBUG SUPPORTING FUNCTION
6,163,170	FMA13-0044JP	United States	05/16/1997	12/19/2000	LEVEL CONVERTER AND SEMICONDUCTOR DEVICE
7,253,691	FMA13-00450TW	United States	08/28/2003	08/07/2007	PLL CLOCK GENERATOR CIRCUIT AND CLOCK GENERATION METHOD
11/198,225	FMA13-00450US	United States	08/08/2005		SEMICONDUCTOR INTEGRATED CIRCUIT DEVICE, AND ADJUSTMENT METHOD OF SEMICONDUCTOR INTEGRATED CIRCUIT DEVICE
7,459,960	FMA13-00450US DIV	United States	06/01/2006	12/02/2008	SEMICONDUCTOR INTEGRATED CIRCUIT DEVICE, AND ADJUSTMENT METHOD OF SEMICONDUCTOR INTEGRATED CIRCUIT DEVICE
12/723,320	FMA13-00452JP	United States	03/12/2010		RECONFIGURABLE CIRCUIT WITH SUSPENSION CONTROL CIRCUIT
8,149,026	FMA13-00455US	United States	06/29/2010	04/03/2012	DRIVER CIRCUIT AND ADJUSTMENT METHOD THEREOF
7,936,156	FMA13-00457JP	United States	06/10/2008	05/03/2011	DC-DC CONVERTER AND CONTROL METHOD THEREOF
7,916,503	FMA13-00458JP	United States	03/26/2008	03/29/2011	DC-DC CONVERTER, POWER SUPPLY VOLTAGE SUPPLYING METHOD, AND POWER SUPPLY VOLTAGE SUPPLYING SYSTEM
8,319,482	FMA13-00459US	United States	03/02/2010	11/27/2012	POWER SUPPLY AND POWER CONTROL DEVICE
6,462,609	FMA13-00460JP	United States	03/26/2001	10/08/2002	TRIMMING CIRCUIT OF SEMICONDUCTOR APPARATUS
8,345,503	FMA13-00461JP	United States	09/28/2010	01/01/2013	BOOSTER CIRCUIT AND SEMICONDUCTOR MEMORY
8,436,687	FMA13-00463US	United States	12/21/2010	05/07/2013	OSCILLATING APPARATUS
13/028,840	FMA13-00464JP	United States	02/16/2011		SEMICONDUCTOR CIRCUIT AND DESIGNING APPARATUS
8,335,110	FMA13-00466US	United States	08/04/2010	12/18/2012	SEMICONDUCTOR MEMORY, SYSTEM, AND METHOD OF CONTROLLING SEMICONDUCTOR MEMORY
12/844,928	FMA13-00470US	United States	07/28/2010		DC-DC CONVERTER, CONTROL CIRCUIT, AND POWER SUPPLY CONTROL METHOD
8,344,711	FMA13-00471JP DIV	United States	04/19/2010	01/01/2013	POWER SUPPLY DEVICE, CONTROL CIRCUIT AND METHOD FOR CONTROLLING POWER SUPPLY DEVICE
14/107,729	FMA13-00471US	United States	12/16/2013		OUTPUT VOLTAGE CONTROLLER, ELECTRONIC DEVICE, AND OUTPUT VOLTAGE CONTROL METHOD
8,699,549	FMA13-00472PCT	United States	12/02/2011	04/15/2014	COMMUNICATION DEVICE, COMMUNICATION SYSTEM, AND COMMUNICATION METHOD
8,368,577	FMA13-00474US	United States	02/28/2011	02/05/2013	A/D CONVERTER
12/617,608	FMA13-00475JP DIV	United States	11/12/2009		AN ANALOG CIRCUIT CELL ARRAY INCLUDING PLURALITY OF TWO CHANNEL MOSFETS HAVING TWO GATE ELECTRODES CONNECTED TOGETHER AND TWO SOURCE REGIONS CONNECTED TOGETHER FOR USE
8,514,632	FMA13-00476US	United States	02/07/2011	08/20/2013	SEMICONDUCTOR MEMORY INCLUDING PROGRAM CIRCUIT OF NONVOLATILE MEMORY CELLS AND SYSTEM
8,742,730	FMA13-00477JP	United States	02/18/2010	06/03/2014	CHARGING CIRCUIT
7,554,784	FMA13-00478JP DIV	United States	06/09/2006	06/30/2009	SURGE DETECTION CIRCUIT
8,928,177	FMA13-00479US	United States	02/25/2011	01/06/2015	CONTROL CIRCUIT AND ELECTRONIC DEVICE

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12/973,730	FMA13-00480JP	United States	12/20/2010		RECONFIGURABLE CIRCUIT HAVING ROWS OF A MATRIX OF REGISTERS CONNECTED TO CORRESPONDING PORTS AND A SEMICONDUCTOR INTEGRATED CIRCUIT (as amended)
7,663,345	FMA13-00481JP	United States	08/30/2006	02/16/2010	CIRCUIT AND METHOD FOR CONTROLLING DC-DC CONVERTER
8,612,805	FMA13-00482JP	United States	03/20/2007	12/17/2013	PROCESSOR SYSTEM OPTIMIZATION SUPPORTING APPARATUS AND SUPPORTING METHOD
8,988,052	FMA13-00483JP	United States	04/15/2011	03/24/2015	CONTROL CIRCUIT FOR POWER SUPPLY INCLUDING A DETECTION CIRCUIT AND A REGULATION CIRCUIT FOR REGULATING SWITCHING TIMING (as amended)
8,618,783	FMA13-00484JP	United States	11/12/2009	12/31/2013	DC-DC CONVERTER WITH ADAPTIVE PHASE COMPENSATION CONTROLLER
7,663,356	FMA13-00486JP	United States	06/07/2006	02/16/2010	CURRENT-CONTROLLED DC-DC CONVERTER CONTROL CIRCUIT, CURRENT-CONTROLLED DC-DC CONVERTER, AND METHOD FOR CONTROLLING CURRENT-CONTROLLED DC-DC CONVERTER
6,114,890	FMA13-0048KR	United States	11/10/1997	09/05/2000	SKEW-REDUCTION CIRCUIT
13/073,691	FMA13-00490US	United States	03/28/2011		RECONFIGURABLE CIRCUIT WITH DATA LATENCY MANAGEMENT (as amended)
8,635,397	FMA13-00493JP	United States	03/23/2011	01/21/2014	DATA WRITING METHOD AND SYSTEM
8,410,767	FMA13-00494JP	United States	06/01/2009	04/02/2013	CONTROL CIRCUIT OF DC-DC CONVERTER APPLYING OFFSET TO COIL CURRENT, DC-DC CONVERTER APPLYING OFFSET TO COIL CURRENT AND CONTROL METHOD OF DC-DC CONVERTER
14/080,844	FMA13-00494US	United States	11/15/2013		SEMICONDUCTOR INTEGRATED CIRCUIT, OPERATING METHOD OF SEMICONDUCTOR INTEGRATED CIRCUIT, AND DEBUG SYSTEM
7,071,675	FMA13-00497JP DIV1	United States	03/05/2004	07/04/2006	BAND DISTRIBUTION INSPECTING DEVICE AND BAND DISTRIBUTION INSPECTING METHOD
7,793,085	FMA13-00498JP DIV	United States	12/30/2004	09/07/2010	MEMORY CONTROL CIRCUIT AND MICROPROCESSORY SYSTEM FOR PRE-FETCHING INSTRUCTIONS
7,250,773	FMA13-00498US	United States	09/14/2006	07/31/2007	CIRCUIT FOR DETECTING DIFFERENCE IN CAPACITANCE
7,372,740	FMA13-00499JP DIV	United States	05/11/2005	05/13/2008	SEMICONDUCTOR MEMORY DEVICE
8,878,504	FMA13-00501JP	United States	07/20/2011	11/04/2014	SWITCHING REGULATOR
8,493,050	FMA13-00502JP	United States	11/26/2010	07/23/2013	CONTROL CIRCUIT FOR SWITCHING POWER SUPPLY UNIT, ELECTRONIC DEVICE AND METHOD FOR CONTROLLING SWITCHING POWER SUPPLY UNIT
14/149,484	FMA13-00502US	United States	01/07/2014		DATA WRITING METHOD AND SYSTEM
8,638,082	FMA13-00503JP DIV2	United States	01/18/2011	01/28/2014	CONTROL CIRCUIT FOR STEP-DOWN AND BOOST TYPE SWITCHING SUPPLY CIRCUIT AND METHOD FOR SWITCHING SUPPLY CIRCUIT
13/749,246	FMA13-00503US	United States	03/14/2011	12/17/2014	SEMICONDUCTOR MEMORY READ AND WRITE ACCESS
8,718,038	FMA13-00505JP	United States	08/26/2011	05/06/2014	NODE SYSTEM AND SUPERVISORY NODE
8,611,160	FMA13-00508JP	United States	06/10/2011	12/17/2013	NONVOLATILE SEMICONDUCTOR STORAGE DEVICE AND DATA WRITE METHOD FOR THE SAME
8,897,289	FMA13-00508US	United States	03/20/2014	11/25/2014	NODE SYSTEM AND SUPERVISORY NODE
6,897,635	FMA13-00511JP	United States	04/14/2003	05/24/2005	METHOD FOR PREDICTING REMAINING CHARGE OF PORTABLE ELECTRONICS BATTERY
8,922,289	FMA13-00511US	United States	07/09/2013	12/30/2014	OSCILLATION CIRCUIT
8,339,206	FMA13-00512US	United States	12/02/2011	12/25/2012	PLL
5,304,954	FMA13-00513JP	United States	07/12/1993	04/19/1994	PLL SYNTHESIZER HAVING FREQUENCY DIVIDERS WITH RESET CONTROL
8,957,648	FMA13-00514US	United States	05/27/2011	02/17/2015	OUTPUT SWITCHING CIRCUIT
14/598,647	FMA13-00514US CON	United States	01/16/2015		OUTPUT SWITCHING CIRCUIT
8,605,733	FMA13-00515JP	United States	12/22/2010	12/10/2013	METHOD OF DATA TRANSMISSION, DATA TRANSMITTING APPARATUS, AND NETWORK SYSTEM
8,698,473	FMA13-00516JP	United States	06/30/2011	04/15/2014	SWITCHING REGULATOR
8,786,358	FMA13-00517JP	United States	02/28/2011	07/22/2014	REFERENCE VOLTAGE CIRCUIT AND SEMICONDUCTOR INTEGRATED CIRCUIT
8,830,097	FMA13-00518JP	United States	07/25/2012	09/09/2014	A/D CONVERTER
5,917,366	FMA13-0051KR	United States	07/24/1997	06/29/1999	VOLTAGE BOOSTER CIRCUIT AND A VOLTAGE DROP CIRCUIT WITH CHANGEABLE OPERATING LEVELS
10/790,176	FMA13-00520JP	United States	03/02/2004		INTER-BUS COMMUNICATION INTERFACE DEVICE AND DATA SECURITY DEVICE
8,508,146	FMA13-00521US	United States	11/28/2011	08/13/2013	ELECTRONIC DEVICE, CONTROL CIRCUIT, AND METHOD FOR CONTROLLING LIGHT EMITTING ELEMENT
8,819,401	FMA13-00522US	United States	08/19/2011	08/26/2014	SEMICONDUCTOR DEVICE AND RESET CONTROL METHOD IN SEMICONDUCTOR DEVICE
12/569,193	FMA13-00523JP	United States	09/29/2009		DISPLAY CONTROL DEVICE TO DISPLAY IMAGE DATA
8,513,938	FMA13-00524US	United States	12/11/2011	08/20/2013	REFERENCE VOLTAGE CIRCUIT AND SEMICONDUCTOR INTEGRATED CIRCUIT
8,674,632	FMA13-00525US	United States	02/13/2012	03/18/2014	MOTOR CONTROL DEVICE, CONTROL PROGRAM THEREFOR, AND METHOD FOR THE CONTROL
8,823,344	FMA13-00526US	United States	12/16/2011	09/02/2014	CONTROL CIRCUIT, ELECTRONIC DEVICE, AND METHOD FOR CONTROLLING POWER SUPPLY
8,914,554	FMA13-00528JP	United States	10/24/2011	12/16/2014	COMMUNICATION NETWORK DEVICE THAT COMPARES FIRST AND SECOND IDENTIFICATION NUMBER OF PACKET TO DETERMINE IF THEY ARE IN CONFORMANCE OR NON-CONFORMANCE WITH SELF-ID PACKET
14/069,979	FMA13-00528US	United States	11/01/2013		POWER SUPPLY DEVICE, CONTROL CIRCUIT, ELECTRONIC DEVICE AND CONTROL METHOD FOR POWER SUPPLY
8,436,598	FMA13-00529JP	United States	09/28/2009	05/07/2013	OUTPUT-VOLTAGE CONTROL DEVICE, OUTPUT-VOLTAGE CONTROL METHOD, AND ELECTRONIC APPARATUS
8,379,464	FMA13-00531JP	United States	02/10/2011	02/19/2013	SEMICONDUCTOR INTEGRATED CIRCUIT DEVICE
13/589,354	FMA13-00532US	United States	08/20/2012		CLOCK DATA RECOVERY CIRCUIT AND CLOCK DATA RECOVERY METHOD

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PATENT OR APPL NO.	SPANSON REFERENCE NO.	COUNTRY	FILING DATE	ISSUE DATE	TITLE
7,705,483	FMA13-00533TW	United States	09/25/2006	04/27/2010	DC-DC CONVERTER CONTROL CIRCUIT, DC-DC CONVERTER, POWER SUPPLY UNIT, AND DC-DC CONVERTER CONTROL METHOD
6,346,795	FMA13-00535JP	United States	01/26/2001	02/12/2002	DISCHARGE CONTROL CIRCUIT OF BATTERIES
6,480,069	FMA13-00536TW	United States	03/02/2001	11/12/2002	ACTIVE LOAD CIRCUIT, AND OPERATIONAL AMPLIFIER AND COMPARATOR HAVING THE SAME
6,864,869	FMA13-00537JP	United States	12/11/2000	03/08/2005	DATA DRIVER AND DISPLAY UTILIZING THE SAME
6,690,236	FMA13-00537US	United States	09/10/2002	02/10/2004	GAIN VARIABLE AMPLIFIER
6,864,729	FMA13-00538JP	United States	03/01/2002	03/08/2005	MODE SWITCHING METHOD FOR PLL CIRCUIT AND MODE CONTROL CIRCUIT FOR PLL CIRCUIT
6,731,099	FMA13-00539TW	United States	02/27/2002	05/04/2004	DC-DC CONVERTER WITH CONTROL CIRCUIT CAPABLE OF GENERATING STEP-UP AND STEP-DOWN SIGNALS
6,795,516	FMA13-00540JP	United States	03/10/2000	09/21/2004	RESET CIRCUIT AND PLL FREQUENCY SYNTHESIZER
6,611,132	FMA13-00541TW	United States	03/05/2002	08/26/2003	DC-DC CONVERTER, POWER SUPPLY CIRCUIT, METHOD FOR CONTROLLING DC-DC CONVERTER, AND METHOD FOR CONTROLLING POWER SUPPLY CIRCUIT
7,342,454	FMA13-00542KR	United States	04/11/2006	03/11/2008	ANALOG MULTISTAGE AMPLIFICATION CIRCUIT IN THE FIELD OF SENSOR
6,847,346	FMA13-00543US	United States	10/24/2002	01/25/2005	SEMICONDUCTOR DEVICE EQUIPPED WITH TRANSFER CIRCUIT FOR CASCADE CONNECTION
7,019,501	FMA13-00544US	United States	03/23/2004	03/28/2006	DC/DC CONVERTER
6,944,794	FMA13-00545JP	United States	01/29/2002	09/13/2005	MICROCONTROLLER WITH DEBUG SUPPORT UNIT
6,885,221	FMA13-00545US	United States	07/23/2004	04/26/2005	SIGNAL DETECTION APPARATUS, SIGNAL DETECTION METHOD, SIGNAL TRANSMISSION SYSTEM, AND COMPUTER READABLE PROGRAM TO EXECUTE SIGNAL TRANSMISSION
6,975,148	FMA13-00547TW	United States	12/23/2003	12/13/2005	SPREAD SPECTRUM CLOCK GENERATION CIRCUIT, JITTER GENERATION CIRCUIT AND SEMICONDUCTOR DEVICE
7,092,226	FMA13-00548TW	United States	03/11/2005	08/15/2006	CONSTANT-VOLTAGE POWER SUPPLY CIRCUIT
7,671,872	FMA13-00549TW	United States	04/11/2006	03/02/2010	METHOD AND APPARATUS FOR DETERMINING CHROMINANCE SPACE
7,310,026	FMA13-00550US	United States	11/14/2005	12/18/2007	SEMICONDUCTOR INTEGRATED CIRCUIT WITH FUNCTION TO DETECT STATE OF STABLE OSCILLATION
7,180,512	FMA13-00551TW	United States	01/03/2003	02/20/2007	INTEGRATED CIRCUIT FREE FROM ACCUMULATION OF DUTY RATIO ERRORS
7,295,039	FMA13-00552JP	United States	03/04/2005	11/13/2007	BUFFER CIRCUIT
7,199,745	FMA13-00553JP	United States	11/15/2005	04/03/2007	SUCCESSIVE APPROXIMATION A/D CONVERTER PROVIDED WITH A SAMPLE-HOLD AMPLIFIER
7,336,107	FMA13-00554TW	United States	04/06/2006	02/26/2008	COMPARATOR CIRCUIT AND CONTROL METHOD THEREOF
7,525,364	FMA13-00555JP	United States	07/27/2006	04/28/2009	DELAY CONTROL CIRCUIT
7,719,136	FMA13-00556TW	United States	06/05/2006	05/18/2010	POWER SOURCE CONTROL CIRCUIT, POWER SUPPLY DEVICE, AND CONTROL METHOD FOR THE SAME
7,586,788	FMA13-00557JP	United States	12/01/2006	09/08/2009	NONVOLATILE SEMICONDUCTOR MEMORY HAVING VOLTAGE ADJUSTING CIRCUIT
7,557,587	FMA13-00557US	United States	03/21/2007	07/07/2009	CONTROL APPARATUS, SEMICONDUCTOR INTEGRATED CIRCUIT APPARATUS, AND SOURCE VOLTAGE SUPPLY CONTROL SYSTEM
7,301,413	FMA13-00558JP	United States	09/14/2004	11/27/2007	VOLTAGE CONTROLLED OSCILLATOR AND PLL CIRCUIT
7,161,337	FMA13-00559JP	United States	06/06/2005	01/09/2007	MULTIPHASE DC-DC CONVERTER
7,642,945	FMA13-00560US	United States	02/22/2008	01/05/2010	AD CONVERTER CIRCUIT AND MICROCONTROLLER
7,679,343	FMA13-00561TW	United States	09/13/2007	03/16/2010	POWER SUPPLY SYSTEM AND METHOD FOR CONTROLLING OUTPUT VOLTAGE
11/511,318	FMA13-00562TW	United States	08/29/2006		TEMPERATURE CHARACTERISTIC CORRECTION METHOD AND SENSOR AMPLIFICATION CIRCUIT
7,675,267	FMA13-00563US	United States	09/27/2006	03/09/2010	CONTROL CIRCUIT OF POWER SUPPLY AND CONTROL METHOD OF THE POWER SUPPLY
8,508,307	FMA13-00565TW	United States	06/10/2011	08/13/2013	OSCILLATION CIRCUIT
8,099,540	FMA13-00566TW	United States	10/11/2006	01/17/2012	RECONFIGURABLE CIRCUIT
7,733,995	FMA13-00568JP	United States	12/19/2005	06/08/2010	NOISE FILTER AND FILTERING METHOD
7,512,873	FMA13-00569TW	United States	07/28/2006	03/31/2009	PARALLEL PROCESSING APPARATUS DYNAMICALLY SWITCHING OVER CIRCUIT CONFIGURATION
7,545,054	FMA13-00570JP	United States	06/06/2006	06/09/2009	DC LINEAR REGULATOR SINGLE CONTROLLER WITH PLURAL LOADS
7,861,235	FMA13-00571US	United States	07/09/2007	12/28/2010	PROGRAM CONTROL DEVICE AND PROGRAM CONTROL METHOD
7,904,674	FMA13-00572US	United States	11/14/2007	03/08/2011	METHOD FOR CONTROLLING SEMICONDUCTOR MEMORY DEVICE
7,960,946	FMA13-00573US	United States	02/15/2008	06/14/2011	POWER SUPPLY CIRCUIT, POWER SUPPLY CONTROL CIRCUIT, AND POWER SUPPLY CONTROL METHOD
13/942,018	FMA13-00574US	United States	07/15/2013		ADJUSTING APPARATUS AND ADJUSTMENT METHOD
6,757,349	FMA13-0058JP	United States	06/29/1998	06/29/2004	PLL FREQUENCY SYNTHESIZER WITH LOCK DETECTION CIRCUIT
5,914,903	FMA13-0063KR	United States	01/30/1998	06/22/1999	SEMICONDUCTOR MEMORY DEVICE
6,031,425	FMA13-0064JP	United States	01/27/1998	02/29/2000	LOW POWER PRESCALER FOR A PLL CIRCUIT
6,321,280	FMA13-0065KR	United States	02/01/1999	11/20/2001	SYSTEM LSI HAVING COMMUNICATION FUNCTION
6,060,914	FMA13-0066JP	United States	08/10/1998	05/09/2000	SEMICONDUCTOR DEVICE INCLUDING A BOOST CIRCUIT
6,895,496	FMA13-0067KR	United States	03/12/1999	05/17/2005	MICROCONTROLLER HAVING PREFETCH FUNCTION
6,075,477	FMA13-0069KR	United States	07/27/1998	06/13/2000	VOLTAGE SELECTOR FOR A D/A CONVERTER
6,147,923	FMA13-0070TW	United States	06/30/1999	11/14/2000	VOLTAGE BOOSTING CIRCUIT
6,249,169	FMA13-0071JP	United States	12/29/1998	06/19/2001	TRANSISTOR OUTPUT CIRCUIT
5,999,448	FMA13-0072KR	United States	12/30/1998	12/07/1999	NONVOLATILE SEMICONDUCTOR MEMORY DEVICE AND METHOD OF REPRODUCING DATA OF NONVOLATILE SEMICONDUCTOR MEMORY DEVICE
6,286,070	FMA13-0073KR	United States	02/25/1999	09/04/2001	SHARED MEMORY ACCESS DEVICE AND METHOD
6,484,270	FMA13-0074JP	United States	05/04/1999	11/19/2002	ELECTRIC DEVICE WITH FLASH MEMORY BUILT-IN
6,608,612	FMA13-0075KR	United States	11/17/1999	08/19/2003	SELECTOR AND MULTILAYER INTERCONNECTION WITH REDUCED OCCUPIED AREA ON SUBSTRATE
6,218,810	FMA13-0076JP	United States	03/01/2000	04/17/2001	OUTPUT CIRCUIT AND BATTERY PACK

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PATENT OR APPL NO.	SPANSION REFERENCE NO.	COUNTRY	FILING DATE	ISSUE DATE	TITLE
6,476,954	FMA13-0077JP	United States	03/19/1999	11/05/2002	OPTICAL COMMUNICATION DEVICE AND RECEIVING CIRCUIT THEREOF
5,963,474	FMA13-0078KR	United States	09/25/1998	10/05/1999	SECONDARY STORAGE DEVICE USING NONVOLATILE SEMICONDUCTOR MEMORY
6,353,864	FMA13-0078US	United States	08/14/2001	03/05/2002	SYSTEM LSI HAVING COMMUNICATION FUNCTION
5,982,661	FMA13-0079JP	United States	02/10/1999	11/09/1999	MEMORY DEVICE
6,304,241	FMA13-0080US	United States	06/03/1998	10/16/2001	DRIVER FOR A LIQUID-CRYSTAL DISPLAY PANEL
6,181,610	FMA13-0082US	United States	12/22/1999	01/30/2001	SEMICONDUCTOR DEVICE HAVING CURRENT AUXILIARY CIRCUIT FOR OUTPUT CIRCUIT
6,545,919	FMA13-0083JP	United States	12/03/1999	04/08/2003	SEMICONDUCTOR MEMORY AND OUTPUT SIGNAL CONTROL METHOD AND CIRCUIT IN SEMICONDUCTOR MEMORY
6,598,176	FMA13-0087TW	United States	12/27/1999	07/22/2003	APPARATUS FOR ESTIMATING MICROCONTROLLER AND METHOD THEREOF
6,778,448	FMA13-0087US	United States	02/10/2003	08/17/2004	SEMICONDUCTOR MEMORY AND OUTPUT SIGNAL CONTROL METHOD AND CIRCUIT IN SEMICONDUCTOR MEMORY
6,456,170	FMA13-0088JP	United States	03/30/2000	09/24/2002	COMPARATOR AND VOLTAGE CONTROLLED OSCILLATOR CIRCUIT
7,317,690	FMA13-0089KR DIV	United States	03/10/2000	01/08/2008	METHOD OF CONSTRUCTING NETWORK TOPOLOGY AND INTERFACE CIRCUIT
6,674,277	FMA13-0091TW	United States	08/18/2000	01/06/2004	FREQUENCY MEASUREMENT CIRCUIT
6,864,873	FMA13-0092JP	United States	12/11/2000	03/08/2005	SEMICONDUCTOR INTEGRATED CIRCUIT FOR DRIVING LIQUID CRYSTAL PANEL
6,466,065	FMA13-0093PCT	United States	09/22/2000	10/15/2002	PRESALER AND PLL CIRCUIT
6,917,191	FMA13-0093US	United States	11/05/2003	07/12/2005	FREQUENCY MEASUREMENT CIRCUIT
6,333,675	FMA13-0094JP DIV	United States	04/06/2000	12/25/2001	VARIABLE GAIN AMPLIFIER WITH GAIN CONTROL VOLTAGE BRANCH CIRCUIT
7,103,132	FMA13-0095TW	United States	03/20/2000	09/05/2006	PHASE COMPARATOR AND METHOD OF CONTROLLING POWER SAVING OPERATION OF THE SAME, AND SEMICONDUCTOR INTEGRATED CIRCUIT
6,747,624	FMA13-0097JP	United States	02/09/2000	06/08/2004	DRIVING CIRCUIT FOR SUPPLYING TONE VOLTAGES TO LIQUID CRYSTAL DISPLAY PANEL
6,194,871	FMA13-0098JP DIV	United States	04/24/2000	02/27/2001	CHARGE AND DISCHARGE CONTROL CIRCUIT AND APPARATUS FOR SECONDARY BATTERY
6,320,359	FMA13-0099JP	United States	09/28/2000	11/20/2001	DC-DC CONVERTER AND CONTROLLER FOR DETECTING A MALFUNCTION THEREIN
6,515,525	FMA13-0100TW	United States	03/16/2001	02/04/2003	FRACTIONAL-N-PLL FREQUENCY SYNTHESIZER AND PHASE ERROR CANCELING METHOD THEREFOR
6,337,563	FMA13-0101JP	United States	01/26/2001	01/08/2002	DC-DC CONVERTER AND SEMICONDUCTOR INTEGRATED CIRCUIT DEVICE FOR DC-DC CONVERTER
5,565,797	FMA13-0102KR DIV3	United States	08/07/1995	10/15/1996	CLOCK SIGNAL GENERATING DEVICE
5,801,514	FMA13-0102US DIV	United States	04/09/1997	09/15/1998	CHARGING-AND-DISCHARGING CONTROL DEVICE, A BATTERY PACK, AND AN ELECTRONIC APPARATUS WITH IMPROVED CHARGE AND DISCHARGE CONTROL
5,808,444	FMA13-0102US DIV	United States	12/12/1997	12/28/1999	CHARGING-AND-DISCHARGING DEVICE, BATTERY PACK AND ELECTRONIC APPARATUS INCLUDING THEM
6,008,629	FMA13-0102US DIV	United States	01/17/1997	09/01/1998	CHARGING-AND-DISCHARGING DEVICE FOR AN ELECTRONIC APPARATUS, AND AN ELECTRONIC APPARATUS INCLUDING THE SAME, UTILIZING A CHARGING DEVICE PROVIDING A CONSTANT CHARGING CURRENT
6,529,083	FMA13-0103JP	United States	03/30/2000	03/04/2003	CLOCK CONTROL CIRCUIT
6,518,845	FMA13-0104KR	United States	03/16/2001	02/11/2003	PLL FREQUENCY SYNTHESIZER CIRCUIT
6,597,162	FMA13-0105TW	United States	01/11/2001	07/22/2003	PLL SEMICONDUCTOR DEVICE WITH TESTABILITY, AND METHOD AND APPARATUS FOR TESTING SAME
7,460,097	FMA13-0105US	United States	09/01/2004	12/02/2008	SEMICONDUCTOR INTEGRATED CIRCUIT FOR DRIVING LIQUID CRYSTAL PANEL
6,373,225	FMA13-0106JP	United States	03/23/2001	04/16/2002	CHARGE CIRCUIT THAT PERFORMS CHARGE CONTROL BY COMPARING A PLURALITY OF BATTERY VOLTAGES
6,826,192	FMA13-0108TW	United States	01/19/2001	11/30/2004	INTERFACE APPARATUS
6,876,185	FMA13-0108US	United States	06/03/2003	04/05/2005	PLL SEMICONDUCTOR DEVICE WITH TESTABILITY, AND METHOD AND APPARATUS FOR TESTING SAME
6,647,475	FMA13-0109JP	United States	02/26/2001	11/11/2003	PROCESSOR CAPABLE OF ENABLING/DISABLING MEMORY ACCESS
6,456,141	FMA13-0110TW	United States	08/07/2001	09/24/2002	CURRENT PULSE RECEIVING CIRCUIT
7,424,383	FMA13-0111TW	United States	02/08/2001	09/09/2008	ABNORMALITY DETECTION DEVICE FOR DETECTING AN ABNORMALITY IN A COMMUNICATION BUS
6,784,866	FMA13-0112JP	United States	04/02/2001	08/31/2004	DOT-INVERSION DATA DRIVER FOR LIQUID CRYSTAL DISPLAY DEVICE
6,452,449	FMA13-0114JP	United States	09/18/2000	04/08/2011	GAIN VARIABLE AMPLIFIER
6,538,834	FMA13-0114US	United States	07/03/2002	03/25/2003	SERVO CONTROLLER AND SERVO CONTROL METHOD
6,462,686	FMA13-0115JP	United States	02/14/2001	10/08/2002	SERVO CONTROLLER AND SERVO CONTROL METHOD
6,775,741	FMA13-0116JP	United States	01/25/2001	08/10/2004	CACHE SYSTEM WITH LIMITED NUMBER OF TAG MEMORY ACCESSES
6,552,958	FMA13-0118JP	United States	02/04/2002	04/22/2003	SEMICONDUCTOR INTEGRATED CIRCUIT DEVICE
7,152,177	FMA13-0119JP	United States	08/28/2001	12/19/2006	MICROCOMPUTER AND COMPUTER SYSTEM
6,714,063	FMA13-0119US	United States	08/08/2002	03/30/2004	CURRENT PULSE RECEIVING CIRCUIT
6,891,408	FMA13-0119US DIV	United States	01/30/2001	07/17/2009	CURRENT PULSE RECEIVING CIRCUIT
6,674,657	FMA13-0120JP	United States	01/10/2002	01/06/2004	OVERVOLTAGE-PROTECTIVE DEVICE FOR POWER SYSTEM, AC/DC CONVERTER AND DC/DC CONVERTER CONSTITUTING THE POWER SYSTEM
6,788,113	FMA13-0121JP	United States	10/11/2001	09/07/2004	DIFFERENTIAL SIGNAL OUTPUT APPARATUS, SEMICONDUCTOR INTEGRATED CIRCUIT APPARATUS HAVING THE DIFFERENTIAL SIGNAL OUTPUT APPARATUS, AND DIFFERENTIAL SIGNAL TRANSMISSION SYSTEM

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PATENT OR APPL NO.	SPANSON REFERENCE NO.	COUNTRY	FILING DATE	ISSUE DATE	TITLE
6,781,412	FMA13-0122TW	United States	02/13/2002	08/24/2004	LOGIC CIRCUIT FOR FAST CARRY/BORROW
6,586,990	FMA13-0123JP	United States	03/22/2002	07/01/2003	OPERATIONAL AMPLIFIER HAVING OFFSET CANCEL FUNCTION
6,653,871	FMA13-0124JP	United States	02/13/2002	11/25/2003	METHOD OF AND CIRCUIT FOR CONTROLLING A CLOCK
6,510,090	FMA13-0125JP	United States	03/25/2002	01/21/2003	SEMICONDUCTOR MEMORY DEVICE
6,828,764	FMA13-0127JP	United States	03/21/2002	12/07/2004	REGULATOR CIRCUIT AND CONTROL METHOD THEREOF
6,903,609	FMA13-0129TW	United States	03/29/2002	06/07/2005	OPERATIONAL AMPLIFIER
7,342,436	FMA13-0130JP	United States	12/12/2002	03/11/2008	BIPOLAR SUPPLY VOLTAGE GENERATOR AND SEMICONDUCTOR DEVICE FOR SAME
7,342,946	FMA13-0131JP	United States	02/11/2002	03/11/2008	DEVICE FOR PROCESSING DATA SIGNALS, METHOD THEREOF, AND DEVICE FOR MULTIPLEXING DATA SIGNALS
7,113,041	FMA13-0131US	United States	04/19/2005	09/26/2006	OPERATIONAL AMPLIFIER
7,136,956	FMA13-0132JP	United States	03/06/2002	11/14/2006	SEMICONDUCTOR DEVICE
6,882,133	FMA13-0133TW	United States	04/30/2002	04/19/2005	DC/DC CONVERTER CONTROL CIRCUITS AND DC/DC CONVERTER SYSTEMS WITH POWER SAVING MODE IN ACCORDANCE WITH AN EXTERNAL CONTROL SIGNAL
6,690,225	FMA13-0135JP	United States	01/23/2003	02/10/2004	DC OFFSET CANCEL CIRCUIT
6,867,623	FMA13-0136TW	United States	10/24/2002	03/15/2005	RECEIVING CIRCUIT
6,696,821	FMA13-0137JP	United States	01/16/2003	02/24/2004	DC-DC CONVERTER, DUTY-RATIO SETTING CIRCUIT AND ELECTRIC APPLIANCE USING THEM
7,028,237	FMA13-0139JP	United States	03/12/2003	04/11/2006	INTERNAL BUS TESTING DEVICE AND METHOD
7,434,079	FMA13-0139US	United States	12/13/2005	10/07/2008	MICROCOMPUTER, METHOD OF CONTROLLING CACHE MEMORY, AND METHOD OF CONTROLLING CLOCK
7,064,743	FMA13-0140JP	United States	01/29/2003	06/20/2006	FINGER MOVEMENT DETECTION METHOD AND APPARATUS
6,870,778	FMA13-0141JP	United States	02/27/2003	03/22/2005	SEMICONDUCTOR DEVICE INCLUDING A VOLTAGE MONITORING CIRCUIT
6,946,905	FMA13-0142JP	United States	11/22/2002	09/20/2005	OFFSET CANCEL CIRCUIT OF VOLTAGE FOLLOWER EQUIPPED WITH OPERATIONAL AMPLIFIER
7,580,020	FMA13-0142US	United States	07/17/2006	08/25/2009	SEMICONDUCTOR DEVICE AND LIQUID CRYSTAL PANEL DRIVER DEVICE
7,098,878	FMA13-0143JP	United States	07/26/2002	08/29/2006	SEMICONDUCTOR DEVICE AND LIQUID CRYSTAL PANEL DRIVER DEVICE
6,768,682	FMA13-0146JP	United States	09/30/2002	07/27/2004	NONVOLATILE SEMICONDUCTOR MEMORY AND METHOD FOR CONTROLLING PROGRAMMING VOLTAGE OF NONVOLATILE SEMICONDUCTOR MEMORY
7,358,946	FMA13-0146US	United States	07/15/2005	04/15/2008	OFFSET CANCEL CIRCUIT OF VOLTAGE FOLLOWER EQUIPPED WITH OPERATIONAL AMPLIFIER
6,968,172	FMA13-0147TW	United States	01/23/2003	11/22/2005	DC OFFSET CANCEL CIRCUIT
6,788,152	FMA13-0148JP	United States	04/18/2003	09/07/2004	AMPLIFICATION CIRCUIT AND OPTICAL COMMUNICATION APPARATUS PROVIDED WITH THE AMPLIFICATION CIRCUIT
6,727,771	FMA13-0149TW	United States	10/09/2001	04/27/2004	SEMICONDUCTOR INTEGRATED CIRCUIT DEVICE WITH VARIABLE GAIN AMPLIFIER
10/850,395	FMA13-0149US DIV	United States	05/21/2004		DC COMPONENT CANCELLATION CIRCUIT
6,975,540	FMA13-0150JP	United States	07/08/2003	12/13/2005	SEMICONDUCTOR MEMORY DEVICE FOR DIFFERENTIAL DATA AMPLIFICATION AND METHOD THEREFOR
7,007,134	FMA13-0151TW	United States	01/31/2003	02/28/2006	MICROCOMPUTER, METHOD OF CONTROLLING CACHE MEMORY, AND METHOD OF CONTROLLING CLOCK
6,806,782	FMA13-0153JP	United States	04/21/2003	10/19/2004	FREQUENCY SYNTHESIZER CIRCUIT
6,917,541	FMA13-0155JP	United States	02/01/2002	07/12/2005	NONVOLATILE SEMICONDUCTOR MEMORY DEVICE
RE43911	FMA13-0156JP DIV8	United States	03/07/2003	01/08/2013	CONTROL SYSTEM FOR CHARGING BATTERIES AND ELECTRONIC APPARATUS USING SAME
RE42,114	FMA13-0156US RE1	United States	04/12/2000	02/08/2011	CONTROL SYSTEM FOR CHARGING BATTERIES AND ELECTRONIC APPARATUS USING SAME
5,617,347	FMA13-0156US RE12	United States	03/17/1995	04/01/1997	CACHE MEMORY SYSTEM AND METHOD THEREOF FOR STORING A STAGED MEMORY ITEM AND A CACHE TAG WITHIN A SINGLE CACHE ARRAY STRUCTURE
8,049,539	FMA13-0158JP	United States	03/31/2003	11/01/2011	CIRCUIT WITH VARIATION CORRECTION FUNCTION
6,741,105	FMA13-0161JP	United States	04/18/2003	05/25/2004	DIFFERENTIAL CIRCUIT AND PEAK HOLD CIRCUIT INCLUDING DIFFERENTIAL CIRCUIT
6,879,521	FMA13-0162JP	United States	02/21/2003	04/12/2005	THRESHOLD VOLTAGE ADJUSTMENT METHOD OF NON-VOLATILE SEMICONDUCTOR MEMORY DEVICE AND NON-VOLATILE SEMICONDUCTOR MEMORY DEVICE
7,176,663	FMA13-0163JP	United States	07/23/2003	02/13/2007	CONTROL CIRCUIT FOR DC/DC CONVERTER
6,853,257	FMA13-0164TW	United States	05/22/2003	02/08/2005	PLL CIRCUIT INCLUDING A VOLTAGE CONTROLLED OSCILLATOR AND A METHOD FOR CONTROLLING A VOLTAGE CONTROLLED OSCILLATOR
6,842,063	FMA13-0165JP	United States	07/24/2003	01/11/2005	ANALOG SWITCH CIRCUIT
6,990,642	FMA13-0167JP	United States	08/06/2003	01/24/2006	DESIGN METHOD FOR INTEGRATED CIRCUIT HAVING SCAN FUNCTION
6,940,338	FMA13-0168JP	United States	11/12/2003	09/06/2005	SEMICONDUCTOR INTEGRATED CIRCUIT
7,215,312	FMA13-0169KR	United States	04/30/2003	05/08/2007	SEMICONDUCTOR DEVICE, DISPLAY DEVICE, AND SIGNAL TRANSMISSION SYSTEM
6,862,217	FMA13-0170JP	United States	09/22/2003	03/01/2005	CONTROL METHOD OF NON-VOLATILE SEMICONDUCTOR MEMORY CELL AND NON-VOLATILE SEMICONDUCTOR MEMORY DEVICE
6,943,616	FMA13-0171TW	United States	08/27/2003	09/13/2005	SEMICONDUCTOR INTEGRATED CIRCUIT DEVICE, AND ADJUSTMENT METHOD OF SEMICONDUCTOR INTEGRATED CIRCUIT DEVICE
7,122,995	FMA13-0172US	United States	05/04/2005	10/17/2006	MULTI-PHASE DC-DC CONVERTER AND CONTROL CIRCUIT FOR MULTI- PHASE DC-DC CONVERTER
7,174,435	FMA13-0177TW	United States	11/19/2003	02/06/2007	MEMORY CONTROL CIRCUIT, MEMORY DEVICE, AND MICROCOMPUTER
7,095,260	FMA13-0177US	United States	09/02/2005	08/22/2006	SPREAD SPECTRUM CLOCK GENERATION CIRCUIT, JITTER GENERATION CIRCUIT AND SEMICONDUCTOR DEVICE
11/476,125	FMA13-0177US DIV	United States	06/28/2006		JITTER GENERATION CIRCUIT AND SEMICONDUCTOR DEVICE

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7,006,936	FMA13-0178TW	United States	04/10/2003	02/28/2006	PULSE WIDTH MEASURING DEVICE WITH AUTOMATIC RANGE SETTING FUNCTION
7,042,299	FMA13-0185PCT	United States	04/15/2003	05/09/2006	CRYSTAL OSCILLATION CIRCUIT
7,622,760	FMA13-0186JP	United States	03/03/2003	11/24/2009	MOS TYPE VARIABLE CAPACITANCE DEVICE
7,500,021	FMA13-0190PCT	United States	05/21/2004	03/03/2009	OPERATION MODE CONTROL CIRCUIT, MICROCOMPUTER INCLUDING THE SAME, AND CONTROL SYSTEM USING THE MICROCOMPUTER
11/501,870	FMA13-0191JP-1	United States	08/10/2006		METHOD AND APPARATUS FOR SUPPORTING SOFTWARE TUNING FOR MULTI-CORE PROCESSOR, AND COMPUTER PRODUCT
14/297,200	FMA13-0191US DIV	United States	06/05/2014		INTER-BUS COMMUNICATION INTERFACE DEVICE
7,034,514	FMA13-0193JP	United States	03/25/2004	04/25/2006	SEMICONDUCTOR INTEGRATED CIRCUIT USING BAND-GAP REFERENCE CIRCUIT
7,081,792	FMA13-0194JP	United States	03/29/2004	07/25/2006	OPERATIONAL AMPLIFIER, LINE DRIVER, AND LIQUID CRYSTAL DISPLAY DEVICE
7,454,650	FMA13-0195JP	United States	03/02/2004	11/18/2008	MICROCONTROLLER HAVING A SYSTEM RESOURCE PRESCALER THEREON
7,084,658	FMA13-0196JP	United States	06/17/2004	08/01/2006	SEMICONDUCTOR INTEGRATED CIRCUIT DEVICE
7,279,990	FMA13-0197US	United States	11/28/2003	10/09/2007	SIGMA-DELTA MODULATOR FOR PLL CIRCUITS
7,068,116	FMA13-0200KR	United States	06/29/2004	06/27/2006	OSCILLATION CIRCUIT AND SEMICONDUCTOR DEVICE FREE FROM THE INFLUENCE OF SOURCE VOLTAGE, TEMPERATURE AND FLUCTUATIONS IN THE INVERTER THRESHOLD VOLTAGE
7,518,390	FMA13-0200US	United States	06/05/2006	04/14/2009	SEMICONDUCTOR INTEGRATED CIRCUIT DEVICE WITH A TEST CIRCUIT THAT MEASURES A PERIOD TO SELECT A TEST MODE
7,098,709	FMA13-0201JP	United States	06/15/2004	08/29/2006	SPREAD-SPECTRUM CLOCK GENERATOR
7,613,956	FMA13-0202JP	United States	01/18/2005	11/03/2009	MICROCOMPUTER CAPABLE OF MONITORING INTERNAL MEMORY
7,119,550	FMA13-0203JP DIV	United States	09/16/2004	10/10/2006	CAPACITANCE DIFFERENCE DETECTING CIRCUIT AND MEMS SENSOR
7,414,453	FMA13-0203US	United States	01/08/2007	08/19/2008	LEVEL CONVERSION CIRCUIT
7,310,507	FMA13-0204JP	United States	01/28/2005	12/18/2007	FILTER CIRCUIT PERMITTING ADJUSTMENT OF CUTOFF FREQUENCY
7,262,587	FMA13-0205JP	United States	11/05/2004	08/28/2007	CIRCUIT AND METHOD FOR CONTROLLING DC-DC CONVERTER
7,176,740	FMA13-0206JP	United States	09/24/2004	02/13/2007	LEVEL CONVERSION CIRCUIT
7,908,453	FMA13-0207JP	United States	06/28/2005	03/15/2011	SEMICONDUCTOR DEVICE HAVING A DYNAMICALLY RECONFIGURABLE CIRCUIT CONFIGURATION
7,075,159	FMA13-0208JP	United States	08/05/2004	07/11/2006	HORIZONTAL MOS TRANSISTOR
7,012,411	FMA13-0209JP	United States	03/29/2004	03/14/2006	SWITCHING REGULATOR CONTROL CIRCUIT, SWITCHING REGULATOR AND SWITCHING REGULATOR CONTROL METHOD
8,230,133	FMA13-0210TW	United States	01/18/2005	07/24/2012	MICROCOMPUTER WITH INTERNAL DMA
7,720,138	FMA13-0211TW	United States	05/18/2005	05/18/2010	COMMUNICATION SYSTEM
7,245,178	FMA13-0212JP	United States	11/17/2006	07/17/2007	ANALOG FILTER CIRCUIT AND ADJUSTMENT METHOD THEREOF
7,250,745	FMA13-0216JP	United States	10/27/2004	07/31/2007	CONTROL CIRCUIT OF DC-DC CONVERTER AND ITS CONTROL METHOD
7,091,518	FMA13-0217PCT	United States	01/27/2005	08/15/2006	SEMICONDUCTOR DEVICE
7,405,627	FMA13-0218JP	United States	09/08/2004	07/29/2008	PLL FREQUENCY SYNTHESIZER
7,405,602	FMA13-0219JP	United States	02/24/2005	07/29/2008	RESET CONTROL CIRCUIT AND RESET CONTROL METHOD
7,596,025	FMA13-0219US	United States	04/30/2007	09/29/2009	SEMICONDUCTOR MEMORY DEVICE AND METHOD OF CONTROLLING SEMICONDUCTOR MEMORY DEVICE
7,898,860	FMA13-0219US CON	United States	08/18/2009	03/01/2011	SEMICONDUCTOR MEMORY DEVICE AND METHOD OF CONTROLLING SEMICONDUCTOR MEMORY DEVICE
7,196,379	FMA13-0221JP	United States	10/18/2004	03/27/2007	MOS CAPACITOR DEVICE
7,149,830	FMA13-0222JP	United States	09/23/2004	12/12/2006	SEMICONDUCTOR DEVICE AND MICROCONTROLLER
7,224,606	FMA13-0224TW	United States	03/01/2005	05/29/2007	SEMICONDUCTOR MEMORY DEVICE AND METHOD OF CONTROLLING SEMICONDUCTOR MEMORY DEVICE
7,119,555	FMA13-0225JP	United States	11/05/2004	10/10/2006	CIRCUIT FOR DETECTING DIFFERENCE IN CAPACITANCE
7,701,178	FMA13-0226TW	United States	10/01/2004	04/20/2010	CHARGE CONTROL THAT KEEPS CONSTANT INPUT VOLTAGE SUPPLIED TO BATTERY PACK
7,580,963	FMA13-0227JP	United States	01/14/2005	08/25/2009	SEMICONDUCTOR DEVICE HAVING AN ARITHMETIC UNIT OF A RECONFIGURABLE CIRCUIT CONFIGURATION IN ACCORDANCE WITH STORED CONFIGURATION DATA AND A MEMORY STORING FIXED VALUE DATA TO BE SUPPLIED TO THE ARITHMETIC UNIT, REQUIRING NO DATA AREA FOR STORING FIXED VALUE DATA TO BE SET IN A CONFIGURATION MEMORY
7,135,895	FMA13-0228KR	United States	10/29/2004	11/14/2006	SEMICONDUCTOR DEVICE HAVING OUTPUT CIRCUIT ADAPTIVELY SUPPRESSING SSO NOISE
11/092,770	FMA13-0231US	United States	03/30/2005		SEMICONDUCTOR DEVICE, PRINTED-CIRCUIT BOARD AND ELECTRONICS DEVICE
7,352,163	FMA13-0232TW	United States	05/19/2005	04/01/2008	EARLY EFFECT CANCELLING CIRCUIT, DIFFERENTIAL AMPLIFIER, LINEAR REGULATOR, AND EARLY EFFECT CANCELING METHOD
7,224,152	FMA13-0233TW	United States	05/04/2005	05/29/2007	DC-DC CONVERTER AND CONTROL CIRCUIT FOR DC-DC CONVERTER
7,471,099	FMA13-0234JP	United States	03/22/2005	12/30/2008	SEMICONDUCTOR DEVICE WITH MECHANISM FOR LEAK DEFECT DETECTION
8,717,833	FMA13-0234US	United States	04/23/2008	05/06/2014	SEMICONDUCTOR MEMORY DEVICE
14/251,448	FMA13-0234US DIV	United States	04/11/2014		SEMICONDUCTOR MEMORY DEVICE
7,373,531	FMA13-0236KR	United States	05/05/2005	05/13/2008	SIGNAL DETECTION METHOD, FREQUENCY DETECTION METHOD, POWER CONSUMPTION CONTROL METHOD, SIGNAL DETECTING DEVICE, FREQUENCY DETECTING DEVICE, POWER CONSUMPTION CONTROL DEVICE AND ELECTRONIC APPARATUS
7,624,205	FMA13-0237TW	United States	06/07/2005	11/24/2009	MICROCONTROLLER
8,503,501	FMA13-0238US	United States	05/18/2005	08/06/2013	SPREAD SPECTRUM CLOCK GENERATION CIRCUIT AND A METHOD OF CONTROLLING THEREOF
7,301,412	FMA13-0239JP	United States	09/01/2005	11/27/2007	VARIABLE CAPACITY CIRCUIT AND CONTROL METHOD OF VARIABLE CAPACITY CIRCUIT

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7,482,882	FMA13-0240TW	United States	06/03/2005	01/27/2009	VOLTAGE CONTROL OSCILLATION CIRCUIT AND ADJUSTING METHOD FOR THE SAME
7,253,679	FMA13-0241TW	United States	09/14/2005	08/07/2007	OPERATIONAL AMPLIFIER AND METHOD FOR CANCELING OFFSET VOLTAGE OF OPERATIONAL AMPLIFIER
7,388,438	FMA13-0242JP	United States	01/26/2005	06/17/2008	?? MODULATOR FOR PLL CIRCUIT
8,024,495	FMA13-0243KR	United States	06/30/2005	09/20/2011	COMMUNICATION DATA CONTROLLER
7,518,437	FMA13-0245JP	United States	12/08/2005	04/14/2009	CONSTANT CURRENT CIRCUIT AND CONSTANT CURRENT GENERATING METHOD
7,345,536	FMA13-0246TW	United States	07/15/2005	03/18/2008	AMPLIFIER CIRCUIT AND CONTROL METHOD THEREOF
7,215,165	FMA13-0247JP	United States	11/07/2005	05/08/2007	CLOCK GENERATING CIRCUIT AND CLOCK GENERATING METHOD
7,372,760	FMA13-0248JP	United States	08/22/2005	05/13/2008	SEMICONDUCTOR DEVICE AND ENTRY INTO TEST MODE WITHOUT USE OF UNNECESSARY TERMINAL
7,978,750	FMA13-0249JP	United States	06/29/2005	07/12/2011	MICROCONTROLLER
7,355,481	FMA13-0250JP	United States	08/11/2005	04/08/2008	AMPLIFICATION CIRCUIT AND CONTROL METHOD OF AMPLIFICATION CIRCUIT
RE41915	FMA13-0254US	United States	05/27/2004	11/09/2010	CHARGE/DISCHARGE CONTROL CIRCUIT AND SECONDARY BATTERY
7,876,077	FMA13-0255TW	United States	07/21/2005	01/25/2011	CONTROL CIRCUIT AND CONTROL METHOD OF CURRENT MODE CONTROL TYPE DC-DC CONVERTER
7,368,983	FMA13-0255US	United States	07/24/2007	05/06/2008	OPERATIONAL AMPLIFIER AND METHOD FOR CANCELING OFFSET VOLTAGE OF OPERATIONAL AMPLIFIER
7,423,415	FMA13-0256TW	United States	02/10/2006	09/09/2008	DC-DC CONVERTER AND ITS CONTROL METHOD, AND SWITCHING REGULATOR AND ITS CONTROL METHOD
7,266,015	FMA13-0257TW	United States	12/20/2005	09/04/2007	REDUNDANCY SUBSTITUTION METHOD, SEMICONDUCTOR MEMORY DEVICE AND INFORMATION PROCESSING APPARATUS
7,236,047	FMA13-0260TW	United States	10/28/2005	06/26/2007	BAND GAP CIRCUIT
7,233,273	FMA13-0261JP	United States	03/01/2006	06/19/2007	ANALOG-TO-DIGITAL CONVERTER
7,199,653	FMA13-0262JP	United States	01/20/2006	04/03/2007	SEMICONDUCTOR DEVICE WITH OPERATION MODE SET BY EXTERNAL RESISTOR
11/340,871	FMA13-0263US	United States	01/27/2006		RECONFIGURABLE INTEGRATED CIRCUIT DEVICE
7,734,896	FMA13-0264JP	United States	03/28/2006	06/08/2010	ENHANCED PROCESSOR ELEMENT STRUCTURE IN A RECONFIGURABLE INTEGRATED CIRCUIT DEVICE
7,489,175	FMA13-0266TW	United States	03/29/2006	02/10/2009	CLOCK SUPPLY CIRCUIT AND METHOD
7,279,870	FMA13-0267JP	United States	01/31/2006	10/09/2007	DC-DC CONVERTER AND METHOD OF CONTROLLING DC-DC CONVERTER
8,868,822	FMA13-0268JP	United States	03/03/2011	10/21/2014	DATA-PROCESSING METHOD, PROGRAM, AND SYSTEM
7,782,144	FMA13-0269KR	United States	12/28/2005	08/24/2010	ACTIVE FILTER IN PLL CIRCUIT
7,515,159	FMA13-0269TW	United States	02/03/2006	04/07/2009	RECONFIGURABLE ADDRESS GENERATION CIRCUIT FOR IMAGE PROCESSING, AND RECONFIGURABLE LSI COMPRISING THE SAME
7,609,039	FMA13-0272JP	United States	03/09/2006	10/27/2009	CONTROLLER AND CONTROL METHOD FOR DC-DC CONVERTER
7,227,784	FMA13-0273TW	United States	02/22/2006	06/05/2007	NONVOLATILE SEMICONDUCTOR MEMORY DEVICE PERFORMING ERASE OPERATION THAT CREATES NARROW THRESHOLD DISTRIBUTION
11/370,888	FMA13-0274JP DIV	United States	03/09/2006		CONTROL APPARATUS AND SEMICONDUCTOR INTEGRATED CIRCUIT APPARATUS
7,193,401	FMA13-0275JP	United States	03/14/2006	03/20/2007	CONTROL CIRCUIT AND CONTROL METHOD FOR DC-DC CONVERTER
7,276,944	FMA13-0276TW	United States	12/21/2005	10/02/2007	CLOCK GENERATION CIRCUIT AND CLOCK GENERATION METHOD
7,420,404	FMA13-0277JP	United States	06/07/2006	09/02/2008	PHASE ADJUSTER CIRCUIT AND PHASE ADJUSTING METHOD
7,268,448	FMA13-0278TW	United States	03/07/2006	09/11/2007	PLURAL OUTPUT SWITCHING REGULATOR WITH PHASE COMPARISON AND DELAY MEANS
7,595,621	FMA13-0279TW	United States	03/28/2006	09/29/2009	DC-DC CONVERTER CONTROL CIRCUIT AND DC-DC CONVERTER CONTROL METHOD
7,298,117	FMA13-0280TW	United States	02/27/2006	11/20/2007	STEP-UP (BOOST) DC REGULATOR WITH TWO-LEVEL BACK-BIAS SWITCH GATE VOLTAGE
7,449,926	FMA13-0281TW	United States	05/31/2006	11/11/2008	CIRCUIT FOR ASYNCHRONOUSLY RESETTING SYNCHRONOUS CIRCUIT
7,359,251	FMA13-0282US	United States	09/11/2006	04/15/2008	NON-VOLATILE SEMICONDUCTOR MEMORY DEVICE, ERASE METHOD FOR SAME, AND TEST METHOD FOR SAME
7,729,896	FMA13-0283JP	United States	05/24/2006	06/01/2010	CYCLE SIMULATION METHOD, CYCLE SIMULATOR, AND COMPUTER PRODUCT
7,679,411	FMA13-0283US	United States	10/17/2008	03/16/2010	RESET SIGNAL GENERATION CIRCUIT
7,781,909	FMA13-0284JP	United States	09/07/2006	08/24/2010	CONTROL CIRCUIT OF POWER SUPPLY, POWER SUPPLY AND CONTROL METHOD THEREOF
7,911,003	FMA13-0285US	United States	08/30/2006	03/22/2011	SEMICONDUCTOR INTEGRATED CIRCUIT DEVICE
7,857,505	FMA13-0287JP	United States	11/14/2006	12/28/2010	METHOD AND CIRCUIT FOR CORRECTING SENSOR TEMPERATURE DEPENDENCY CHARACTERISTIC
7,315,158	FMA13-0288US	United States	07/28/2006	01/01/2008	PULSE WIDTH MODULATION CIRCUIT
7,573,970	FMA13-0289US	United States	08/28/2006	08/11/2009	PRESALER AND BUFFER
7,750,741	FMA13-0290JP	United States	08/17/2006	07/06/2010	PLL CIRCUIT AND SEMICONDUCTOR DEVICE
7,783,693	FMA13-0293JP	United States	05/31/2006	08/24/2010	RECONFIGURABLE CIRCUIT
7,342,443	FMA13-0294JP	United States	06/12/2006	03/11/2008	OPERATIONAL AMPLIFIER
7,456,623	FMA13-0295JP	United States	05/19/2006	11/25/2008	DC-DC CONVERTER AND CONTROL CIRCUIT FOR DC-DC CONVERTER
7,663,923	FMA13-0296TW	United States	05/23/2006	02/16/2010	SEMICONDUCTOR MEMORY DEVICE AND CONTROL METHOD THEREOF
7,679,214	FMA13-0299KR	United States	08/30/2006	03/16/2010	ELECTRONIC DEVICE INCORPORATING SYSTEM POWER SUPPLY UNIT AND METHOD FOR SUPPLYING POWER SUPPLY VOLTAGE
7,456,657	FMA13-0300US	United States	07/21/2006	11/25/2008	COMMON INPUT/OUTPUT TERMINAL CONTROL CIRCUIT
8,582,681	FMA13-0301JP	United States	03/24/2009	11/12/2013	SIGNAL RECEIVER APPARATUS AND WAVEFORM SHAPING METHOD
7,242,170	FMA13-0302TW	United States	04/06/2006	07/10/2007	CONTROL CIRCUIT HAVING ERROR AMPLIFIER FOR DC-DC CONVERTER AND CONTROL METHOD THEREFOR

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7,777,473	FMA13-0302US	United States	10/23/2008	08/17/2010	DC-DC CONVERTER AND CONTROL CIRCUIT FOR DC-DC CONVERTER
6,617,179	G0025US	United States	06/05/2001	09/09/2003	METHOD AND SYSTEM FOR QUALIFYING AN ONO LAYER IN A SEMICONDUCTOR DEVICE
6,400,608	G0063US	United States	04/25/2001	06/04/2002	ACCURATE VERIFY APPARATUS AND METHOD FOR NOR FLASH MEMORY CELLS IN THE PRESENCE OF HIGH COLUMN LEAKAGE
6,440,797	G0067US	United States	09/28/2001	08/27/2002	NITRIDE BARRIER LAYER FOR PROTECTION OF ONO STRUCTURE FROM TOP OXIDE LOSS IN FABRICATION OF SONOS FLASH MEMORY
6,680,509	G0067US DIV	United States	05/30/2002	01/20/2004	NITRIDE BARRIER LAYER FOR PROTECTION OF ONO STRUCTURE FROM TOP OXIDE LOSS IN FABRICATION OF SONOS FLASH MEMORY
6,436,768	G0074US	United States	06/27/2001	08/20/2002	SOURCE DRAIN IMPLANT DURING ONO FORMATION FOR IMPROVED ISOLATION OF SONOS DEVICES
6,897,533	G01251US	United States	09/18/2002	05/24/2005	METHOD FOR FORMING MULTI-BIT SILICON NITRIDE TRAPPING NON-VOLATILE MEMORY CELL
6,475,863	G0164US	United States	05/17/2002	11/05/2002	METHOD FOR FABRICATING SELF-ALIGNED GATE OF FLASH MEMORY CELL
6,525,959	G0185US	United States	07/30/2001	02/25/2003	NOR ARRAY WITH BURIED TRENCH SOURCE LINE
6,852,594	G0186US	United States	01/18/2002	02/08/2005	TWO-STEP SOURCE SIDE IMPLANT FOR IMPROVING SOURCE RESISTANCE AND SHORT CHANNEL EFFECT IN DEEP SUB-0.18um FLASH MEMORY TECHNOLOGY
6,664,191	G0187US	United States	10/09/2001	12/16/2003	NON SELF-ALIGNED SHALLOW TRENCH ISOLATION PROCESS WITH DISPOSABLE SPACE TO DEFINE SUB-LITHOGRAPHIC POLY SPACE
6,888,157	G0188US	United States	07/27/2001	05/03/2005	N-GATE/N-SUBSTRATE OR P-GATE/P-SUBSTRATE CAPACITOR TO CHARACTERIZE POLYSILICON GATE DEPLETION EVALUATION
6,541,338	G0189US	United States	07/30/2001	04/01/2003	LOW DEFECT DENSITY PROCESS FOR DEEP SUB-0.18UM FLASH MEMORY TECHNOLOGIES
6,510,085	G0190US	United States	05/18/2001	01/21/2003	METHOD OF CHANNEL HOT ELECTRON PROGRAMMING FOR SHORT CHANNEL NOR FLASH ARRAYS
6,525,368	G0194US	United States	06/27/2001	02/25/2003	HIGH DENSITY FLASH EEPROM ARRAY WITH SOURCE SIDE INJECTION
6,996,004	G0206US	United States	11/04/2003	02/07/2006	MINIMIZATION OF FG-FG COUPLING IN FLASH MEMORY
6,469,939	G0259US	United States	10/01/2001	10/22/2002	FLASH MEMORY DEVICE WITH INCREASE OF EFFICIENCY DURING AN APDE (AUTOMATIC PROGRAM DISTURB AFTER ERASE) PROCESS
60/291,861	G0259US PROV	United States	05/18/2001		FLASH MEMORY DEVICE WITH INCREASE EFFICIENCY DURING AN APDE (AUTOMATIC PROGRAM DISTURB AFTER ERASE) PROCESS
6,486,682	G0260US	United States	07/13/2001	11/26/2002	DETERMINATION OF DIELECTRIC CONSTANTS OF THIN DIELECTRIC MATERIALS IN A MOS (METAL OXIDE SEMICONDUCTOR) STACK
6,500,713	G0283US	United States	12/20/2001	12/31/2002	METHOD FOR REPAIRING DAMAGE TO CHARGE TRAPPING DIELECTRIC LAYER FROM BIT LINE IMPLANTATION
6,706,576	G0286US	United States	03/14/2002	03/16/2004	LASER THERMAL ANNEALING OF SILICON NITRIDE FOR INCREASED DENSITY AND ETCH SELECTIVITY
7,670,936	G0293US	United States	10/18/2002	03/02/2010	NITRIDATION OF GATE OXIDE BY LASER PROCESSING
6,872,643	G0295US	United States	03/05/2003	03/29/2005	IMPLANT DAMAGE REMOVAL BY LASER THERMAL ANNEALING
7,001,814	G0313US	United States	05/16/2003	02/21/2006	LASER THERMAL ANNEALING METHODS FOR FLASH MEMORY DEVICES
10/200,540	G0391	United States	07/07/2003		BUILT-IN-SELF-TEST (BIST) OF FLASH MEMORY CELLS AND IMPLEMENTATION OF BIST INTERFACE
10/200,543	G0393	United States	07/22/2002		PATTERN GENERATOR IN BIST (Built-In-Self-Test) SYSTEM FOR TESTING FLASH MEMORY CELLS
6,665,214	G0394US	United States	07/22/2002	12/16/2003	ON-CHIP ERASE PULSE COUNTER FOR EFFICIENT ERASE VERIFY BIST (BUILT-IN-SELF-TEST) MODE
6,631,086	G0395US	United States	07/22/2002	10/07/2003	ON-CHIP REPAIR OF DEFECTIVE ADDRESS OF CORE FLASH MEMORY CELLS
10/200,538	G0396	United States	07/22/2002		BACK-END BIST (BUILT-IN-SELF-TEST) STATE MACHINE FOR TESTING FLASH MEMORY CELLS
7,028,240	G0399US	United States	07/22/2002	04/11/2006	DIAGNOSTIC MODE FOR TESTING FUNCTIONALITY OF BIST (BUILT-IN-SELF-TEST) BACK-END STATE MACHINE
7,010,736	G0401US	United States	07/22/2002	03/07/2006	ADDRESS SEQUENCER WITHIN BIST (BUILT-IN-SELF-TEST) SYSTEM
6,707,718	G0405US	United States	07/22/2002	03/16/2004	GENERATION OF MARGINING VOLTAGE ON-CHIP DURING TESTING CAM PORTION OF FLASH MEMORY DEVICE
6,894,925	G0432US	United States	01/14/2003	05/17/2005	FLASH MEMORY CELL PROGRAMMING METHOD AND SYSTEM
6,590,260	G0436US	United States	03/20/2002	07/08/2003	MEMORY DEVICE HAVING IMPROVED PROGRAMMABILITY
6,777,957	G0438US	United States	06/18/2002	08/17/2004	A TEST STRUCTURE TO MEASURE INTERLAYER DIELECTRIC EFFECTS AND BREAKDOWN AND DETECT METAL DEFECTS IN FLASH MEMORIES
6,731,130	G0439US	United States	12/12/2001	05/04/2004	METHOD OF DETERMINING GATE OXIDE THICKNESS OF AN OPERATIONAL MOSFET
6,764,920	G0440US	United States	04/19/2002	07/20/2004	METHOD FOR REDUCING SHALLOW TRENCH ISOLATION EDGE THINNING TUNNEL OXIDES USING PARTIAL NITRIDE STRIP AND SMALL BIRD'S BEAK FORMATION FOR HIGH PERFORMANCE FLASH MEMORY DEVICES
6,825,083	G0443US	United States	04/19/2002	11/30/2004	METHOD FOR REDUCING SHALLOW TRENCH ISOLATION EDGE THINNING ON THIN GATE OXIDES TO IMPROVE PERIPHERAL TRANSISTOR RELIABILITY AND PERFORMANCE FOR HIGH PERFORMANCE FLASH MEMORY DEVICES
6,734,080	G0444US	United States	05/31/2002	05/11/2004	A SEMICONDUCTOR ISOLATION MATERIAL DEPOSITION SYSTEM AND METHOD
6,756,806	G0445US	United States	03/28/2002	06/29/2004	METHOD OF DETERMINING LOCATION OF GATE OXIDE BREAKDOWN OF MOSFET

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PATENT OR APPL NO.	SPANSON REFERENCE NO.	COUNTRY	FILING DATE	ISSUE DATE	TITLE
6,759,295	G0456US	United States	08/20/2002	07/06/2004	METHOD OF DETERMINING THE ACTIVE REGION WIDTH BETWEEN SHALLOW TRENCH ISOLATION STRUCTURES USING A GATE CURRENT MEASUREMENT TECHNIQUE FOR FABRICATING A FLASH MEMORY SEMICONDUCTOR DEVICE AND DEVICE THEREBY FORMED
6,818,462	G0457	United States	08/19/2002	11/16/2004	METHOD OF DETERMINING THE ACTIVE REGION WIDTH BETWEEN SHALLOW TRENCH ISOLATION STRUCTURES USING A C-V MEASUREMENT TECHNIQUE FOR FABRICATING A FLASH MEMORY SEMICONDUCTOR DEVICE AND A DEVICE THEREBY FORMED
6,884,638	G0458US	United States	08/20/2002	04/26/2005	METHOD OF FABRICATING A FLASH MEMORY SEMICONDUCTOR DEVICE BY DETERMINING THE ACTIVE REGION WIDTH BETWEEN SHALLOW TRENCH ISOLATION STRUCTURES USING AN OVERDRIVE CURRENT MEASUREMENT TECHNIQUE AND A DEVICE THEREBY FABRICATED
6,674,138	G0463US	United States	12/31/2001	01/06/2004	USE OF HIGH-K DIELECTRIC MATERIALS IN MODIFIED ONO STRUCTURE FOR SEMICONDUCTOR DEVICES
6,803,272	G0463US DIV	United States	08/22/2003	10/12/2004	USE OF HIGH-K DIELECTRIC MATERIALS IN MODIFIED ONO STRUCTURE FOR SEMICONDUCTOR DEVICES
6,693,321	G0464US	United States	05/15/2002	02/17/2004	REPLACING LAYERS OF AN INTERGATE DIELECTRIC LAYER WITH HIGH-K MATERIAL FOR IMPROVED SCALABILITY
10/189,643	G0468US	United States	07/03/2002		METHOD OF INTERPOLY HIGH-K DIELECTRIC INTEGRATION TO MINIMIZE LEAKAGE AND FLOATING GATE CONTAMINATION
60/412,739	G0472	United States	09/23/2002		Bilayer Floating Gate For Improved Work Function Between Floating Gate And A High-K Dielectric Layer
6,630,383	G0472US	United States	10/17/2002	10/07/2003	BILAYER FLOATING GATE FOR IMPROVED WORK FUNCTION BETWEEN FLOATING GATE AND A HIGH-K DIELECTRIC LAYER
6,750,066	G0475US	United States	04/08/2002	06/15/2004	PRECISION HIGH-K INTERGATE DIELECTRIC LAYER
6,753,570	G0476US	United States	08/20/2002	06/22/2004	MEMORY DEVICE AND METHOD OF MAKING
6,548,855	G0478	United States	05/16/2002	04/15/2003	NON-VOLATILE MEMORY DIELECTRIC AS CHARGE PUMP DIELECTRIC
6,642,573	G0481US	United States	03/13/2002	11/04/2003	USE OF HIGH-K DIELECTRIC MATERIAL IN MODIFIED ONO STRUCTURE FOR SEMICONDUCTOR DEVICES
10/265,955	G0487US	United States	10/07/2002		MEMORY DEVICES CONTAINING A HIGH-K DIELECTRIC LAYER
8,691,647	G0487US DIV	United States	08/27/2004	04/08/2014	MEMORY DEVICES CONTAINING A HIGH-K DIELECTRIC LAYER
6,639,271	G0495US	United States	12/20/2001	10/28/2003	FULLY ISOLATED DIELECTRIC MEMORY CELL STRUCTURE FOR A DUAL BIT NITRIDE STORAGE DEVICE AND PROCESS FOR MAKING SAME
6,861,307	G0495US DIV1	United States	07/31/2003	03/01/2005	FULLY ISOLATED DIELECTRIC MEMORY CELL STRUCTURE FOR A DUAL BIT NITRIDE STORAGE DEVICE AND PROCESS FOR MAKING SAME
7,001,807	G0495US DIV2	United States	11/24/2004	02/21/2006	FULLY ISOLATED DIELECTRIC MEMORY CELL STRUCTURE FOR A DUAL BIT NITRIDE STORAGE DEVICE AND PROCESS FOR MAKING SAME
6,627,945	G0502US	United States	07/03/2002	09/30/2003	MEMORY DEVICE AND METHOD OF MAKING
6,735,123	G0503US	United States	06/07/2002	05/11/2004	HIGH DENSITY DUAL BIT FLASH MEMORY CELL WITH NON PLANAR STRUCTURE
6,593,590	G0514US	United States	03/28/2002	07/15/2003	A TEST STRUCTURE APPARATUS FOR MEASURING STANDBY CURRENT IN FLASH MEMORY DEVICES
6,596,586	G0515US	United States	05/21/2002	07/22/2003	METHOD OF FORMING LOW RESISTANCE COMMON SOURCE LINE FOR FLASH MEMORY DEVICES
60/344,191	G0573	United States	12/28/2001		TREATMENT OF DIELECTRIC MATERIAL TO ENHANCE ETCH RATE
6,905,971	G0573US	United States	12/30/2002	06/14/2005	TREATMENT OF DIELECTRIC MATERIAL TO ENHANCE ETCH RATE
6,762,454	G0576US	United States	04/08/2002	07/13/2004	STACKED POLYSILICON LAYER FOR BORON PENETRATION INHIBITION
10/215,071	G0683	United States	08/07/2002		METHOD FOR FORMING TRENCHES FOR USE AS SHALLOW TRENCH ISOLATION (STI) REGIONS WITH A TAPERED PROFILE
10/032,631	G0689	United States	12/27/2001		SHALLOW TRENCH ISOLATION APPROACH FOR IMPROVED STI CORNER ROUNDING
6,885,250	G0689US	United States	05/12/2004	04/26/2005	CASCADE AMPLIFIER CIRCUIT FOR PRODUCING A FAST, STABLE AND ACCURATE BITLINE VOLTAGE
7,439,141	G0689US CIP	United States	10/22/2002	10/21/2008	SHALLOW TRENCH ISOLATION APPROACH FOR IMPROVED STI CORNER ROUNDING
6,670,691	G0692US	United States	06/18/2002	12/30/2003	SHALLOW TRENCH ISOLATION FILL PROCESS
6,610,577	G0693US	United States	05/15/2002	08/26/2003	SELF-ALIGNED POLYSILICON POLISH
6,607,925	G0695US	United States	06/06/2002	08/19/2003	HARD MASK REMOVAL PROCESS INCLUDING ISOLATION DIELECTRIC REFILL
6,806,165	G0713US	United States	04/09/2002	10/19/2004	ISOLATION TRENCH FILL PROCESS
6,566,230	G0719	United States	12/27/2001	05/20/2003	SHALLOW TRENCH ISOLATION SPACER FOR WEEF IMPROVEMENT
6,605,517	G0724US	United States	05/15/2002	08/12/2003	METHOD FOR MINIMIZING NITRIDE RESIDUE ON A SILICON WAFER
6,740,926	G0727US	United States	12/27/2001	05/25/2004	PLANAR TRANSISTOR STRUCTURE USING ISOLATION IMPLANTS FOR IMPROVED V _{SS} RESISTANCE AND FOR PROCESS SIMPLIFICATION
6,811,932	G0729	United States	06/06/2002	11/02/2004	METHOD AND SYSTEM FOR DETERMINING FLOW RATES FOR CONTACT FORMATION
7,015,135	G0730US	United States	12/10/2002	03/21/2006	METHOD AND SYSTEM FOR REDUCING CONTACT DEFECTS USING NON CONVENTIONAL CONTACT FORMATION METHOD FOR SEMICONDUCTOR CELLS
6,806,155	G0750US	United States	05/15/2002	10/19/2004	METHOD AND SYSTEM FOR SCALING A NONVOLATILE MEMORY CELLS
6,723,638	G0752US	United States	02/05/2003	04/20/2004	IMPROVED PERFORMANCE IN FLASH MEMORY DEVICES
6,700,201	G0761US	United States	12/11/2001	03/02/2004	REDUCTION OF SECTOR CONNECTING LINE CAPACITANCE USING STAGGERED METAL LINES

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PATENT OR APPL NO.	SPANSION REFERENCE NO.	COUNTRY	FILING DATE	ISSUE DATE	TITLE
6,953,752	G0764US	United States	02/05/2003	10/11/2005	REDUCED SILICON GOUGING AND COMMON SOURCE LINE RESISTANCE IN SEMICONDUCTOR DEVICES
6,754,109	G0766US	United States	10/29/2002	06/22/2004	METHOD OF PROGRAMMING IN-SERIES MEMORY CELLS
10/303,365	G0770US	United States	11/25/2002		PROVISION OF LOW COMMON SOURCE RESISTANCE IN FLASH MEMORY CELL ARCHITECTURE
6,617,639	G0772US	United States	06/21/2002	09/09/2003	USE OF HIGH-K DIELECTRIC MATERIAL FOR ONO AND TUNNEL OXIDE TO IMPROVE FLOATING GATE FLASH MEMORY COUPLING
6,654,285	G0786US	United States	02/27/2002	11/25/2003	METHOD OF MATCHING CORE CELL AND REFERENCE CELL SOURCE RESISTANCES
6,781,885	G0793US	United States	03/05/2003	08/24/2004	METHOD OF PROGRAMMING A MEMORY CELL
6,737,703	G0798US	United States	03/12/2002	05/18/2004	MEMORY ARRAY WITH BURIED BIT LINES
6,653,190	G0802US	United States	12/15/2001	11/25/2003	FLASH MEMORY WITH CONTROLLED WORDLINE WIDTH
7,755,938	G0807US	United States	04/19/2004	07/13/2010	METHOD FOR READING A MEMORY ARRAY WITH NEIGHBOR EFFECT CANCELLATION
7,208,382	G0808US	United States	05/16/2002	04/24/2007	SEMICONDUCTOR DEVICE WITH HIGH CONDUCTIVITY REGION USING SHALLOW TRENCH
11/685,711	G0808US DIV	United States	03/13/2007		SEMICONDUCTOR DEVICE WITH HIGH CONDUCTIVITY REGION USING SHALLOW TRENCH
6,770,523	G0809US	United States	07/02/2002	08/03/2004	METHOD FOR SEMICONDUCTOR WAFER PLANARIZATION BY CMP STOP LAYER FORMATION
7,052,969	G0810US	United States	07/03/2002	05/30/2006	METHOD FOR SEMICONDUCTOR WAFER PLANARIZATION BY ISOLATION MATERIAL GROWTH
6,620,717	G0811US	United States	03/14/2002	09/16/2003	MEMORY WITH DISPOSABLE ARC FOR WORDLINE FORMATION
6,773,988	G0812US	United States	09/13/2002	08/10/2004	MEMORY WORDLINE SPACER
7,053,446	G0812US DIV	United States	06/08/2004	05/30/2006	MEMORY WORDLINE SPACER
6,994,939	G0814US	United States	10/29/2002	02/07/2006	SEMICONDUCTOR MANUFACTURING RESOLUTION ENHANCEMENT SYSTEM AND METHOD FOR SIMULTANEOUSLY PATTERNING DIFFERENT FEATURE TYPES
6,901,010	G0861US	United States	04/08/2002	05/31/2005	IMPROVED ERASE METHOD FOR SINGLE SIDED MIRROR OPERATION
6,700,815	G0862US	United States	04/08/2002	03/02/2004	REFRESH SCHEME FOR DYNAMIC PAGE PROGRAMMING
6,639,844	G0863US	United States	03/12/2003		OVERERASE CORRECTION METHOD
6,690,602	G0864US	United States	04/08/2002	02/10/2004	ALGORITHM DYNAMIC REFERENCE PROGRAMMING
7,076,703	G0865US	United States	11/26/2002	07/11/2006	METHOD AND SYSTEM FOR DEFINING A REDUNDANCY WINDOW AROUND A PARTICULAR COLUMN IN A MEMORY ARRAY
10/155,767	G0866US	United States	05/24/2002		STEPPED PRE-ERASE VOLTAGE FOR MIRRORBIT ERASE
6,813,752	G0867	United States	11/26/2002	11/02/2004	METHOD OF DETERMINING CHARGE LOSS ACTIVATION ENERGY OF A MEMORY ARRAY
7,023,740	G0870US	United States	01/12/2004	04/04/2006	SUBSTRATE BIAS FOR PROGRAMMING NON-VOLATILE MEMORY
7,049,188	G0871US	United States	11/26/2002	05/23/2006	LATERAL DOPED CHANNEL
6,743,677	G0872US	United States	11/27/2002	06/01/2004	METHOD FOR FABRICATING NITRIDE MEMORY CELLS USING A FLOATING GATE FABRICATION PROCESS
10/722,207	G0873US	United States	11/24/2003		A STRUCTURE AND METHOD TO FORM A BURIED POLY BITLINE
7,232,729	G0874US	United States	05/06/2003	06/19/2007	METHOD FOR MANUFACTURING A DOUBLE BITLINE IMPLANT
6,643,177	G0875US	United States	01/21/2003	11/04/2003	METHOD FOR IMPROVING READ MARGIN IN A FLASH MEMORY DEVICE
6,897,110	G0877US	United States	11/26/2002	05/24/2005	METHOD OF PROTECTING A MEMORY ARRAY FROM CHARGE DAMAGE DURING FABRICATION
6,906,959	G0878US	United States	11/27/2002	06/14/2005	A METHOD AND SYSTEM FOR ERASING A NITRIDE MEMORY DEVICE
6,654,283	G0929US	United States	12/11/2001	11/25/2003	FLASH MEMORY ARRAY ARCHITECTURE AND METHOD FOR PROGRAMMING, ERASING AND READING THEREOF
6,646,914	G0930US	United States	03/12/2002	11/11/2003	FLASH MEMORY ARRAY ARCHITECTURE HAVING STAGGERED METAL LINES
6,768,683	G0931US	United States	03/12/2002	07/27/2004	LOW COLUMN LEAKAGE FLASH MEMORY ARRAY
10/159,324	G1125	United States	05/31/2002		HIGH DENSITY PLASMA FORMED OXIDE DEVICE ISOLATION
6,859,748	G1126US	United States	07/03/2002	02/22/2005	TEST STRUCTURE FOR MEASURING EFFECT OF TRENCH ISOLATION ON OXIDE IN A MEMORY DEVICE
6,643,185	G1127US	United States	08/07/2002	11/04/2003	METHOD FOR REPAIRING OVER-ERASURE OF FAST BITS IN FLOATING GATE MEMORY DEVICES
6,861,696	G1135US	United States	05/03/2003	03/01/2005	STRUCTURE AND METHOD FOR A TWO-BIT MEMORY CELL
6,716,710	G1142US	United States	04/19/2002	04/06/2004	USING A FIRST LINER LAYER AS A SPACER IN A SEMICONDUCTOR DEVICE
6,689,666	G1144US	United States	04/19/2002	02/10/2004	REPLACING A FIRST LINER LAYER WITH A THICKER OXIDE LAYER WHEN FORMING A SEMICONDUCTOR DEVICE
6,642,106	G1145US	United States	05/31/2002	11/04/2003	METHOD FOR INCREASING CORE GAIN IN FLASH MEMORY DEVICE USING STRAINED SILICON
6,784,682	G1148US	United States	03/28/2002	08/31/2004	METHOD OF DETECTING SHALLOW TRENCH ISOLATION CORNER THINNING BY ELECTRICAL TRAPPING
6,734,028	G1150US	United States	03/28/2002	05/11/2004	METHOD OF DETECTING SHALLOW TRENCH ISOLATION CORNER THINNING BY ELECTRICAL STRESS
6,576,487	G1244US	United States	04/19/2002	06/10/2003	METHOD TO DISTINGUISH AN STI OUTER EDGE CURRENT COMPONENT WITH AN STI NORMAL CURRENT COMPONENT
6,461,905	G1247US	United States	02/22/2002	10/08/2002	DUMMY GATE PROCESS TO REDUCE THE VSS RESISTANCE OF FLASH PRODUCTS
6,836,432	G1255US	United States	02/11/2002	12/28/2004	PARTIAL PAGE PROGRAMMING OF MULTI LEVEL FLASH
6,606,273	H0053US	United States	04/11/2002	08/12/2003	METHODS AND SYSTEMS FOR FLASH MEMORY TUNNEL OXIDE RELIABILITY TESTING
6,570,787	H0054US	United States	04/19/2002	05/27/2003	PROGRAMMING WITH FLOATING SOURCE FOR LOW POWER, LOW LEAKAGE AND HIGH DENSITY FLASH MEMORY DEVICES
6,646,462	H0055US	United States	06/24/2002	11/11/2003	EXTRACTION OF DRAIN JUNCTION OVERLAP WITH THE GATE AND THE CHANNEL LENGTH FOR ULTRA-SMALL CMOS DEVICES WITH ULTRA-THIN GATE OXIDES

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PATENT OR APPL NO.	SPANSION REFERENCE NO.	COUNTRY	FILING DATE	ISSUE DATE	TITLE
6,754,106	H0062US	United States	09/16/2002	06/22/2004	REFERENCE CELL WITH VARIOUS LOAD CIRCUITS COMPENSATING FOR SOURCE SIDE LOADING EFFECTS IN A NON-VOLATILE MEMORY
6,828,623	H0068US	United States	08/30/2002	12/07/2004	FLOATING GATE MEMORY DEVICE WITH HOMOGENEOUS OXINITRIDE TUNNELING DIELECTRIC
6,991,987	H0069US	United States	11/27/2002	01/31/2006	A METHOD FOR PRODUCING A LOW DEFECT HOMOGENEOUS OXINITRIDE
6,822,259	H0070US	United States	04/19/2002	11/23/2004	METHOD OF DETECTING AND DISTINGUISHING STACK GATE EDGE DEFECTS AT THE SOURCE OR DRAIN JUNCTION
6,864,106	H0071US	United States	08/12/2002	03/08/2005	METHOD AND SYSTEM FOR DETECTING TUNNEL OXIDE ENCROACHMENT ON A MEMORY DEVICE
6,696,331	H0176US	United States	08/12/2002	02/24/2004	METHOD OF PROTECTING A STACKED GATE STRUCTURE DURING FABRICATION
6,583,009	H0184US	United States	06/24/2002	06/24/2003	INNOVATIVE NARROW GATE FORMATION FOR FLOATING GATE FLASH TECHNOLOGY
6,797,565	H0185US	United States	09/16/2002	09/28/2004	METHODS FOR FABRICATING AND PLANARIZATION DUAL POLY SCALABLE SONOS FLASH MEMORY
6,570,211	H0187US	United States	06/26/2002	05/27/2003	2BIT/CELL ARCHITECTURE FOR FLOATING GATE FLASH MEMORY PRODUCT AND ASSOCIATED METHOD
6,716,698	H0188US	United States	09/10/2002	04/06/2004	VIRTUAL GROUND SILICIDE BIT-LINE PROCESS FOR FLOATING GATE FLASH MEMORY
6,809,402	H0191US	United States	08/14/2002	10/26/2004	REFLOWABLE-DOPED HDP FILM
6,771,543	H0198US	United States	08/22/2002	08/03/2004	A PRECHARGING SCHEME FOR READING A MEMORY CELL
6,819,612	H0201US	United States	03/13/2003	11/16/2004	APPARATUS AND METHOD FOR A SENSE AMPLIFIER CIRCUIT THAT SAMPLES AND HOLDS A REFERENCE VOLTAGE
6,784,061	H0211US	United States	06/25/2002	08/31/2004	A PROCESS TO IMPROVE THE V _{SS} LINE FORMATION FOR HIGH DENSITY FLASH MEMORY AND RELATED STRUCTURE ASSOCIATED THEREWITH
6,808,945	H0224US	United States	01/08/2003	10/26/2004	METHOD AND SYSTEM FOR TESTING TUNNEL OXIDE ON A MEMORY-RELATED STRUCTURE
11/000,685	H0290	United States	12/01/2004		POLYMER-BASED TRANSISTOR DEVICES, METHODS, AND SYSTEMS
6,847,047	H0297US	United States	11/04/2002	01/25/2005	CONTROL OF MEMORY ARRAYS UTILIZING ZENER DIODE-LIKE DEVICES
11/194,207	H0297US CIP	United States	08/01/2005		THIN FILM DIODE CHARACTERISTICS FOR SELECTING NANOSCALE RESISTIVE MEMORY CELL IN MEMORY ARRAY
6,943,370	H0297US CON	United States	06/30/2004	09/13/2005	CONTROL OF MEMORY ARRAYS UTILIZING ZENER DIODE-LIKE DEVICES
7,499,309	H0301US	United States	04/02/2004	03/03/2009	USING ORGANIC SEMICONDUCTOR MEMORY IN CONJUNCTION WITH A MEMS ACTUATOR
7,273,766	H0322US	United States	01/12/2005	09/25/2007	VARIABLE DENSITY AND VARIABLE PERSISTENT ORGANIC MEMORY DEVICES, METHODS, AND FABRICATION
10/951,375	H0325US	United States	09/28/2004		CONTROL OF MEMORY DEVICES POSSESSING VARIABLE RESISTANCE CHARACTERISTICS
7,443,710	H0325US CON	United States	11/08/2004	10/28/2008	CONTROL OF MEMORY DEVICES POSSESSING VARIABLE RESISTANCE CHARACTERISTICS
6,803,267	H0338US	United States	07/07/2003	10/12/2004	SILICON CONTAINING MATERIAL FOR PATTERNING POLYMERIC MEMORY ELEMENT
6,798,068	H0343US	United States	11/26/2002	09/28/2004	MOCVD FORMATION OF Cu ₂ S
6,746,971	H0344US	United States	12/05/2002	06/08/2004	METHOD OF FORMING COPPER SULFIDE FOR MEMORY CELL
10/817,131	H0346US	United States	04/02/2004		IN-SITU SURFACE TREATMENT FOR MEMORY CELL FORMATION
6,982,188	H0350US	United States	12/03/2003	01/03/2006	PATTERN RECOGNITION AND METROLOGY STRUCTURE FOR AN X-INITIATIVE LAYOUT DESIGN
6,656,763	H0354US	United States	03/10/2003	12/02/2003	SPIN ON POLYMERS FOR ORGANIC MEMORY DEVICES
6,686,263	H0362US	United States	12/09/2002	02/03/2004	SELECTIVE FORMATION OF TOP MEMORY ELECTRODE BY ELECTROLESS FORMATION OF CONDUCTIVE MATERIALS
7,608,855	H0368US	United States	04/02/2004	10/27/2009	POLYMER DIELECTRICS FOR ME ARRAY INTERN CONNECT
6,836,398	H0374US	United States	10/31/2002	12/28/2004	SYSTEM AND METHOD OF FORMING A PASSIVE LAYER BY A CMP PROCESS
6,773,954	H0376US	United States	12/05/2002	08/10/2004	METHODS OF FORMING PASSIVE LAYERS IN ORGANIC MEMORY CELLS
7,323,418	H0383US	United States	04/08/2005	01/29/2008	ETCH-BACK PROCESS FOR CAPPING A POLYMER MEMORY DEVICE
7,220,985	H0385US	United States	12/09/2002	05/22/2007	SELF ALIGNED MEMORY ELEMENT AND WORDLINE
7,645,632	H0385US DIV	United States	05/18/2007	01/12/2010	SELF ALIGNED MEMORY ELEMENT AND WORDLINE
6,825,060	H0389US	United States	04/02/2003	11/30/2004	PHOTOSENSITIVE POLYMERIC MEMORY ELEMENTS
6,878,961	H0389US DIV	United States	09/28/2004	04/12/2005	PHOTOSENSITIVE POLYMERIC MEMORY ELEMENTS
6,900,488	H0390US	United States	10/31/2002	05/31/2005	MULTI-CELL ORGANIC MEMORY ELEMENT AND METHODS OF OPERATING AND FABRICATING
6,955,939	H0398US	United States	11/03/2003	10/18/2005	MEMORY ELEMENT FORMATION WITH PHOTSENSITIVE POLYMER DIELECTRIC
7,374,654	H0400US	United States	11/01/2004	05/20/2008	METHOD OF MAKING AN ORGANIC MEMORY CELL
7,115,440	H0406US	United States	10/01/2004	10/03/2006	SO ₂ TREATMENT OF OXIDIZED CuO FOR COPPER SULFIDE FORMATION OF MEMORY ELEMENT GROWTH
7,015,504	H0416US	United States	11/03/2003	03/21/2006	SIDEWELL FORMATION FOR HIGH DENSITY POLYMER MEMORY ELEMENT ARRAY
6,936,545	H0421US	United States	10/01/2003	08/30/2005	ORGANIC MEMORY CELL FORMATION ON Ag SUBSTRATE
6,787,458	H0422US	United States	07/07/2003	09/07/2004	POLYMER MEMORY DEVICE FORMED IN VIA OPENING
6,852,586	H0423US	United States	10/01/2003	02/08/2005	SELF ASSEMBLY OF CONDUCTING POLYMER FOR FORMATION OF POLYMER MEMORY CELL
6,893,895	H0424US	United States	07/07/2004	05/17/2005	CUS FORMATION BY ANODIC SULFIDE PASSIVATION OF CU SURFACE

ASSIGNMENT SCHEDULE A

PATENT OR APPL NO.	SPANSION REFERENCE NO.	COUNTRY	FILING DATE	ISSUE DATE	TITLE
7,012,013	H0430US	United States	12/03/2003	03/14/2006	DIELECTRIC PATTERN FORMATION FOR ORGANIC ELECTRONIC DEVICES
6,753,247	H0432US	United States	10/31/2002	06/22/2004	MEMORY CELL FORMATION WITH PROCESS FOR PATTERNING CONDUCTING POLYMER FILMS
6,770,905	H0433US	United States	12/05/2002	08/03/2004	IMPLANTATION FOR THE FORMATION OF CUX LAYER IN AN ORGANIC MEMORY DEVICE
6,870,183	H0434US	United States	11/04/2002	03/22/2005	STACKED ORGANIC MEMORY DEVICES AND METHODS OF OPERATING AND FABRICATING
6,979,837	H0434US CON	United States	05/19/2004	12/27/2005	STACKED ORGANIC MEMORY DEVICES AND METHODS OF OPERATING AND FABRICATING
7,465,956	H0434US CON	United States	10/17/2005	12/16/2008	STACKED ORGANIC MEMORY DEVICES AND METHODS OF OPERATING AND FABRICATING
8,003,436	H0434US DIV	United States	12/03/2008	08/23/2011	STACKED ORGANIC MEMORY DEVICES AND METHODS OF OPERATING AND FABRICATING
8,044,387	H0435US	United States	07/07/2004	10/25/2011	SEMICONDUCTOR DEVICE BUILT ON PLASTIC SUBSTRATE
6,977,389	H0437US	United States	06/02/2003	12/20/2005	PLANAR POLYMER MEMORY DEVICE
8,012,673	H0438US	United States	03/01/2005	09/06/2011	PROCESSING A COPOLYMER TO FORM A POLYMER MEMORY CELL
7,632,706	H0439US	United States	10/21/2005	12/15/2009	SYSTEM AND METHOD FOR PROCESSING AN ORGANIC MEMORY CELL
7,259,039	H0442US	United States	04/02/2004	08/21/2007	MEMORY DEVICE AND METHODS OF USING AND MAKING THE DEVICE
60/485,699	H0442US PROV	United States	07/09/2003		ORGANIC MEMORY DEVICE AND METHODS OF USING AND MAKING THE DEVICE
6,960,783	H0443US	United States	05/13/2003	11/01/2005	ERASING AND PROGRAMMING AN ORGANIC MEMORY DEVICE AND METHODS OF OPERATING AND FABRICATING
7,012,298	H0444US	United States	08/05/2002	03/14/2006	NON-VOLATILE MEMORY DEVICE
60/390,116	H0444US PROV	United States	06/21/2002		NON-VOLATILE MEMORY DEVICE
6,917,068	H0445US CIP	United States	06/05/2003	07/12/2005	SEMICONDUCTOR DEVICE HAVING CONDUCTIVE STRUCTURES FORMED NEAR A GATE ELECTRODE
6,660,588	H0462US	United States	09/16/2002	12/09/2003	HIGH DENSITY FLOATING GATE FLASH MEMORY AND FABRICATION PROCESSES THEREFOR
6,812,514	H0462US DIV	United States	09/10/2003	11/02/2004	HIGH DENSITY FLOATING GATE FLASH MEMORY AND FABRICATION PROCESSES THEREFOR
6,894,473	H0474US	United States	03/05/2003	05/17/2005	FAST BANDGAP REFERENCE CIRCUIT FOR USE IN A LOW POWER SUPPLY A/D BOOSTER
6,885,590	H0496US	United States	01/14/2003	04/26/2005	MEMORY DEVICE HAVING A P+ GATE AND THIN BOTTOM OXIDE AND METHOD OF ERASING SAME
6,778,437	H0502US	United States	08/07/2003	08/17/2004	MEMORY CIRCUIT FOR PROVIDING WORD LINE REDUNDANCY IN A MEMORY SECTOR
10/387,827	H0506	United States	03/12/2003		A METHOD FOR REDUCING SERIES RESISTANCE IN A FLASH MEMORY ARRAY
6,751,146	H0511US	United States	01/07/2003	06/15/2004	SYSTEM AND METHOD FOR CHARGE RESTORATION IN A NON-VOLATILE MEMORY DEVICE
7,020,022	H0513US	United States	07/09/2004	03/28/2006	METHOD OF REFERENCE CELL DESIGN FOR OPTIMIZED MEMORY CIRCUIT YIELD
6,867,119	H0514US	United States	10/30/2002	03/15/2005	NITROGEN OXIDATION TO REDUCE ENCROACHMENT
6,878,589	H0515US	United States	05/06/2003	04/12/2005	METHOD AND SYSTEM FOR IMPROVING SHORT CHANNEL EFFECT ON A FLOATING GATE DEVICE
6,939,766	H0517US	United States	07/09/2003	09/06/2005	A METHOD FOR FABRICATING A FLASH MEMORY DEVICE
10/408,000	H0519	United States	04/03/2003		METHOD FOR FORMING SOURCE AND DRAIN REGIONS TO REDUCE SHORT-CHANNEL EFFECTS IN NON-VOLATILE MEMORY DEVICE FABRICATION
6,833,297	H0520US	United States	10/04/2002	12/21/2004	METHOD FOR REDUCING DRAIN INDUCED BARRIER LOWERING IN A MEMORY DEVICE
6,937,518	H0523US	United States	07/10/2003	08/30/2005	PROGRAMMING OF A FLASH MEMORY CELL
6,897,518	H0534US	United States	07/10/2003	05/24/2005	FLASH MEMORY CELL HAVING REDUCED LEAKAGE CURRENT
6,888,763	H0539US	United States	02/04/2003	05/03/2005	COMPENSATED OSCILLATOR CIRCUIT FOR CHARGE PUMPS
10/636,846	H0540US	United States	08/06/2003		APPARATUS AND METHOD FOR BOOSTING A PASS GATE PUMP FOR A FLASH MEMORY
7,116,154	H0541US	United States	08/06/2003	10/03/2006	LOW POWER CHARGE PUMP
7,067,381	H0542US	United States	08/06/2003	06/27/2006	STRUCTURE AND METHOD TO REDUCE DRAIN INDUCED BARRIER LOWERING
7,109,555	H0544US	United States	04/28/2004	09/19/2006	METHOD FOR PROVIDING SHORT CHANNEL EFFECT CONTROL USING A SILICIDE VSS LINE
6,908,816	H0545US	United States	10/28/2003	06/21/2005	METHOD FOR FORMING A DIELECTRIC SPACER IN A NON-VOLATILE MEMORY DEVICE
7,009,271	H0546US	United States	04/13/2004	03/07/2006	A MEMORY DEVICE WITH AN ALTERNATING V _{ss} INTERCONNECTION
8,530,977	H0548US	United States	06/27/2003	09/10/2013	AN APPARATUS AND METHOD FOR A METAL OXIDE SEMICONDUCTOR FIELD EFFECT TRANSISTOR WITH SOURCE SIDE PUNCH-THROUGH PROTECTION IMPLANT
8,633,083	H0548US DIV	United States	08/12/2013	01/21/2014	APPARATUS AND METHOD FOR A METAL OXIDE SEMICONDUCTOR FIELD EFFECT TRANSISTOR WITH SOURCE SIDE PUNCH-THROUGH PROTECTION IMPLANT
6,939,770	H0552US	United States	07/11/2003	09/06/2005	METHOD OF FABRICATING SEMICONDUCTOR DEVICE HAVING TRIPLE LDD STRUCTURE AND LOWER GATE RESISTANCE FORMED WITH A SINGLE IMPLANT PROCESS
7,084,458	H0552US DIV	United States	05/02/2005	08/01/2006	SEMICONDUCTOR DEVICE HAVING TRIPLE LDD STRUCTURE AND LOWER GATE RESISTANCE FORMED WITH A SINGLE IMPLANT PROCESS
7,011,998	H0554US	United States	01/12/2004	03/14/2006	A HIGH VOLTAGE TRANSISTOR SCALING TILT ION IMPLANT SYSTEM AND METHOD

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PATENT OR APPL NO.	SPANION REFERENCE NO.	COUNTRY	FILING DATE	ISSUE DATE	TITLE
7,026,230	H0558US	United States	09/11/2003	04/11/2006	A METHOD FOR FABRICATING A MEMORY DEVICE
7,414,281	H0561US	United States	09/09/2003	08/19/2008	FLASH MEMORY WITH HIGH-K DIELECTRIC BETWEEN SUBSTRATE AND GATE
6,961,267	H0562US	United States	12/16/2003	11/01/2005	METHOD AND DEVICE FOR PROGRAMMING CELLS IN A MEMORY ARRAY IN A NARROW DISTRIBUTION
7,288,809	H0563US	United States	12/16/2003	10/30/2007	FLASH MEMORY WITH BURIED BIT LINES
6,950,344	H0564US	United States	11/24/2003	09/27/2005	READING FLASH MEMORY
6,819,615	H0565US	United States	10/31/2002	11/16/2004	MEMORY DEVICE HAVING RESISTIVE ELEMENT COUPLED TO REFERENCE CELL FOR IMPROVED RELIABILITY
10/358,496	H0567	United States	02/04/2003		TRANSISTOR FABRICATION METHOD WITH LDD IMPLANT AFTER SPACER FORMATION
6,795,342	H0570	United States	07/24/2003	12/05/2007	SYSTEM FOR PROGRAMMING A NON-VOLATILE MEMORY CELL
6,795,357	H0570US	United States	10/30/2002	09/21/2004	IMPROVED METHOD FOR READING A NON-VOLATILE MEMORY CELL
6,788,583	H0575US	United States	12/02/2002	09/07/2004	PRE-CHARGE METHOD FOR READING A NON-VOLATILE MEMORY CELL
6,911,704	H0576US	United States	10/14/2003	06/28/2005	MEMORY CELL ARRAY WITH STAGGERED LOCAL INTERCONNECT STRUCTURE
6,965,143	H0577US	United States	10/10/2003	11/15/2005	RECESS CHANNEL FLASH ARCHITECTURE FOR REDUCED SHORT CHANNEL EFFECT
6,744,675	H0585US	United States	11/26/2002	06/01/2004	PROGRAM ALGORITHM INCLUDING SOFT ERASE FOR SONOS MEMORY DEVICE
6,956,768	H0587US	United States	04/15/2003	10/18/2005	METHOD OF PROGRAMMIN DUAL CELL MEMORY DEVICE TO STORE MULTIPLE DATA STATES PER CELL
6,778,442	H0588US	United States	04/24/2003	08/17/2004	METHOD OF DUAL CELL MEMORY DEVICE OPERATION FOR IMPROVED END-OF-LIFE READ MARGIN
6,775,187	H0589US	United States	04/24/2003	08/10/2004	METHOD OF PROGRAMMING A DUAL CELL MEMORY DEVICE
6,735,114	H0591US	United States	02/04/2003	05/11/2004	METHOD OF IMPROVING DYNAMIC REFERENCE TRACKING FOR FLASH MEMORY UNIT
6,868,014	H0599US	United States	05/06/2003	03/15/2005	MEMORY DEVICE WITH REDUCED OPERATING VOLTAGE HAVING DIELECTRIC STACK
6,894,932	H0600US	United States	11/18/2003	05/17/2005	DUAL CELL MEMORY DEVICE HAVING A TOP DIELECTRIC STACK
7,151,292	H0609US	United States	01/15/2003	12/19/2006	DIELECTRIC MEMORY CELL STRUCTURE WITH COUNTER DOPED CHANNEL REGION
6,768,673	H0620US	United States	04/24/2003	07/27/2004	METHOD OF PROGRAMMING AND READING A DUAL CELL MEMORY DEVICE
6,822,909	H0622US	United States	04/24/2003	11/23/2004	METHOD OF CONTROLLING PROGRAM THERESHOLD VOLTAGE DISTRIBUTION OF A DUAL CELL MEMORY DEVICE
6,771,545	H0625US	United States	01/29/2003	08/03/2004	IMPROVED METHOD FOR READING A NON-VOLATILE MEMORY CELL ADJACENT TO AN INACTIVE REGION OF A NON-VOLATILE MEMORY CELL ARRAY
6,967,873	H0626US	United States	10/02/2003	11/22/2005	MEMORY DEVICE AND METHOD USING POSITIVE GATE STRESS TO RECOVER OVERERASED CELL
6,862,221	H0628US	United States	06/11/2003	03/01/2005	MEMORY DEVICE HAVING A THIN TOP DIELECTRIC AND METHOD OF ERASING SAME
6,735,124	H0629US	United States	12/10/2002	05/11/2004	FLASH MEMORY DEVICE HAVING FOUR-BIT CELL
6,927,129	H0630US	United States	04/08/2004	08/09/2005	NARROW WIDE SPACER
7,070,911	H0631US	United States	01/23/2003	07/04/2006	A STRUCTURE AND METHOD FOR REDUCING STANDING WAVES IN A PHOTORESIST
7,078,314	H0632US	United States	04/03/2003	07/18/2006	MEMORY DEVICE HAVING IMPROVED PERIPHERY AND CORE ISOLATION
6,943,401	H0634US	United States	09/11/2003	09/13/2005	A FLASH MEMORY CELL DRAIN AND SOURCE FABRICATION SYSTEM AND METHOD
6,919,247	H0635US	United States	09/04/2003	07/19/2005	METHOD OF FABRICATING A FLOATING GATE
7,217,964	H0636US	United States	09/09/2003	05/15/2007	METHOD AND APPARATUS FOR COUPLING TO A SOURCE LINE IN A MEMORY DEVICE
7,361,587	H0637US	United States	09/02/2004	04/22/2008	SEMICONDUCTOR CONTACT AND NITRIDE SPACER FORMATION SYSTEM AND METHOD
7,572,727	H0638US	United States	09/02/2004	08/11/2009	A SEMICONDUCTOR CONTACT FORMATION SYSTEM AND METHOD
7,977,797	H0638US DIV	United States	08/11/2009	07/12/2011	INTEGRATED CIRCUIT WITH CONTACT REGION AND MULTIPLE ETCH STOP INSULATION LAYER
6,867,063	H0639US	United States	09/30/2002	03/15/2005	ORGANIC SPIN-ON ANTI-REFLECTIVE COATING OVER INORGANIC ANTI-REFLECTIVE COATING
10/721,433	H0641US	United States	11/24/2003		DUAL POLYSILICON STRUCTURE WITH NARROW SPACING
7,323,726	H0642US	United States	09/09/2003	01/29/2008	METHOD AND APPARATUS FOR COUPLING TO A COMMON LINE IN AN ARRAY
6,774,432	H0671US	United States	02/05/2003	08/10/2004	UV BLOCKING LAYER FOR REDUCING UV-INDUCED CHARGING OF SONOS DUAL-BIT FLASH MEMORY DEVICES IN BEOL PROCESSING
7,018,896	H0671US DIV1	United States	04/05/2004	03/28/2006	UV BLOCKING LAYER FOR REDUCING UV-INDUCED CHARGING OF SONOS DUAL-BIT FLASH MEMORY DEVICES IN BEOL PROCESSING
6,989,563	H0672US	United States	02/02/2004	01/24/2006	IMPROVED CONTACT INTEGRATION AND ENHANCED INTERLEVEL DIELECTRIC CHEMICAL MECHANICAL POLISHING PROCESS
7,091,088	H0675US	United States	06/03/2004	08/15/2006	UV-BLOCKING ETCH STOP LAYER FOR REDUCING UV-INDUCED CHARGING OF CHARGE STORAGE LAYER IN MEMORY DEVICES IN BEOL PROCESSING
7,118,967	H0677US	United States	02/19/2003	10/10/2006	PROTECTION OF CHARGE TAPPING DIELECTRIC FLASH MEMORY DEVICES FROM UV-INDUCED CHARGING IN BEOL PROCESSING
6,933,219	H0680US	United States	11/18/2003	08/23/2005	TIGHTLY SPACED GATE FORMATION THROUGH DAMASCENE PROCESS
7,881,142	H0685US	United States	09/30/2005	02/01/2011	STORAGE DEVICE AND CONTROL METHOD THEREOF

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PATENT OR APPL NO.	SPANSON REFERENCE NO.	COUNTRY	FILING DATE	ISSUE DATE	TITLE
13/313,699	H0685US DIV	United States	12/07/2011		HIGH SPEED SERIAL PERIPHERAL INTERFACE MEMORY SUBSYSTEM
10/619,804	H0686	United States	07/14/2003		PROCESS FOR CORE AND PERIPHERY MASKING WITH TRANSISTOR SPACER AND SMALL CORE SPACE FORMATION
6,835,662	H0688US	United States	07/14/2003	12/28/2004	PARTIALLY DE-COUPLED CORE AND PERIPHERY GATE MODULE PROCESS
6,855,608	H0696US	United States	06/17/2003	02/15/2005	METHOD OF FABRICATING A PLANAR STRUCTURE TRAPPING MEMORY CELL ARRAY WITH RECTANGULAR GATES AND REDUCED BIT LINE RESISTANCE
6,927,145	H0697US	United States	02/02/2004	08/09/2005	BITLINE HARD MASK SPACER FLOW FOR MEMORY CELL SCALING
7,018,868	H0698US	United States	02/02/2004	03/28/2006	DISPOSABLE HARD MASK FOR MEMORY BITLINE SCALING
10/790,369	H0700	United States	03/01/2004		METHOD OF FORMING SMALL PITCH STRING CONTACTS WITH DIPLE ILLUMINATION
7,060,564	H0709US	United States	08/06/2003	06/13/2006	MEMORY DEVICE AND METHOD OF SIMULTANEOUS FABRICATION OF CORE AND PERIPHERY OF SAME
6,963,108	H0712US	United States	10/10/2003	11/08/2005	RECESSED CHANNEL
6,744,105	H0715US	United States	03/05/2003	06/01/2004	MEMORY ARRAY HAVING SHALLOW BIT LINE WITH SILICIDE CONTACT PORTION AND METHOD OF FORMATION
6,987,048	H0718US	United States	08/06/2003	01/17/2006	MEMORY DEVICE HAVING SILICIDE BITLINE AND METHOD OF FORMING THE SAME
6,768,160	H0726US	United States	01/28/2003	07/27/2004	NON-VOLATILE MEMORY CELL AND METHOD OF PROGRAMMING FOR IMPROVED DATA RETENTION
6,903,407	H0742US	United States	10/14/2003	06/07/2005	TRAPPING DIELECTRIC MEMORY CELL STRUCTURE WITH GATE HOLE INJECTION ERASE
6,858,450	H0750US	United States	11/05/2002	02/22/2005	METHOD OF ALTERNATING GROUNDED/FLOATING POLY LINES TO MONITOR SHORTS
6,828,607	H0753US	United States	12/09/2002	12/07/2004	DISCONTINUOUS NITRIDE STRUCTURE FOR NON-VOLATILE TRANSISTORS
10/460,810	H0789	United States	06/11/2003		A MULTIPLE VT BITMAP TECHNIQUE FOR MEMORY TECHNOLOGIES
10/460,029	H0795	United States	06/11/2003		FLASH THRESHOLD VOLTAGE DISTRIBUTION CHARACTERIZATION FOR APPLICATION OF ERASE ALGORITHM GENERATION IN INTEGRATED CIRCUIT TECHNOLOGY DEVELOPMENT
6,709,924	H1087US	United States	11/12/2002	03/23/2004	FABRICATION OF SHALLOW TRENCH ISOLATION STRUCTURES WITH ROUNDED CORNER AND SELF-ALIGNED GATE
6,767,791	H1090US	United States	02/10/2003	07/27/2004	STRUCTURE AND METHOD FOR SUPPRESSING OXIDE ENCROACHMENT IN A FLOATING GATE MEMORY CELL
6,737,701	H1098US	United States	12/05/2002	05/18/2004	STRUCTURE AND METHOD FOR REDUCING CHARGE LOSS IN A MEMORY CELL
7,196,372	H1130US	United States	07/08/2003	03/27/2007	FLASH MEMORY DEVICE
10/632,971	H1156US	United States	08/04/2003		FINFET FLASH MEMORY
6,747,900	H1202US	United States	01/21/2003	06/08/2004	MEMORY CIRCUIT ARRANGEMENT FOR PROGRAMMING A MEMORY CELL
6,768,677	H1203US	United States	11/22/2002	07/27/2004	CASCADE AMPLIFIER CIRCUIT FOR PRODUCING A FAST, STABLE AND ACCURATE BITLINE VOLTAGE
6,768,679	H1204US	United States	02/10/2003	07/27/2004	SELECTION CIRCUIT FOR ACCURATE MEMORY READ OPERATIONS
6,731,542	H1205US	United States	12/05/2002	05/04/2004	CIRCUIT FOR ACCURATE MEMORY READ OPERATIONS
6,781,417	H1206US	United States	10/29/2002	08/24/2004	BUFFER DRIVER CIRCUIT FOR PRODUCING A FAST, STABLE AND ACCURATE REFERENCE VOLTAGE
6,628,545	H1209US	United States	11/26/2002	09/30/2003	MEMORY CIRCUIT FOR SUPPRESSING BIT LINE CURRENT LEAKAGE
6,670,227	H1348US	United States	02/10/2003	12/30/2003	METHOD FOR FABRICATING DEVICES IN CORE AND PERIPHERY SEMICONDUCTOR REGIONS USING DUAL SPACERS
7,023,046	H1355US	United States	07/11/2003	04/04/2006	UNDOPED OXIDE LINER/BPSG FOR IMPROVED DATA RETENTION
6,765,827	H1356US	United States	03/10/2003	07/20/2004	METHOD AND SYSTEM FOR DETECTING DEFECTIVE MATERIAL SURROUNDING FLASH MEMORY CELLS
7,073,104	H1357US	United States	03/10/2003	07/04/2006	METHOD AND SYSTEM FOR APPLYING TESTING VOLTAGE SIGNAL
7,060,554	H1368US	United States	07/11/2003	06/13/2006	PECVD SILICON-RICH OXIDE LAYER FOR REDUCED UV CHARGING
6,869,844	H1369US	United States	11/05/2003	03/22/2005	METHOD AND STRUCTURE FOR PROTECTING NROM DEVICES FROM INDUCED CHARGE DAMAGE DURING DEVICE FABRICATION
6,717,850	H1371US	United States	12/05/2002	04/06/2004	AN EFFICIENT METHOD TO DETECT PROCESS INDUCED DEFECTS IN THE GATE STACK OF FLASH MEMORY DEVICES
6,797,650	H1373US	United States	01/14/2003	09/28/2004	FLASH MEMORY DEVICES WITH OXYNITRIDE DIELECTRIC AS THE CHARGE STORAGE MEDIA
7,067,388	H1375US	United States	04/07/2004	06/27/2006	A FLASH MEMORY DEVICE AND METHOD OF FORMING THE SAME WITH IMPROVED GATE BREAKDOWN AND ENDURANCE
8,093,646	H1375US DIV	United States	05/12/2006	01/10/2012	A FLASH MEMORY DEVICE AND METHOD OF FORMING THE SAME WITH IMPROVED GATE BREAKDOWN AND ENDURANCE
7,078,749	H1409US	United States	07/11/2003	07/18/2006	MEMORY STRUCTURE HAVING TUNABLE INTERLAYER DIELECTRIC AND METHOD FOR FABRICATING SAME
6,963,104	H1414US	United States	06/12/2003	11/08/2005	NON-VOLATILE MEMORY DEVICE
6,933,558	H1415US	United States	12/04/2003	08/23/2005	FLASH MEMORY DEVICE
6,958,512	H1489US	United States	02/03/2004	10/25/2005	NON-VOLATILE MEMORY DEVICE
7,279,735	H1499US	United States	05/05/2004	10/09/2007	FLASH MEMORY DEVICE
10/929,538	H1500US	United States	08/31/2004		NON-VOLATILE MEMORY DEVICE
6,744,674	H1513US	United States	03/13/2003	06/01/2004	CIRCUIT FOR FAST AND ACCURATE MEMORY READ OPERATIONS
10/733,435	H1515	United States	12/10/2003		METHOD FOR INCREASING RELIABILITY OF A FLOATING GATE MEMORY DEVICE AND RELATED STRUCTURE
6,897,476	H1518US	United States	08/07/2003	05/24/2005	TEST STRUCTURE FOR DETERMINING ELECTROMIGRATION AND INTERLAYER DIELECTRIC FAILURE
6,900,124	H1631US	United States	09/03/2003	05/31/2005	PATTERNING FOR ELLIPTICAL V _{SS} CONTACT ON FLASH MEMORY
7,018,922	H1631US CON	United States	10/19/2004	03/28/2006	PATTERNING FOR ELONGATED V _{SS} CONTACT ON FLASH MEMORY
6,998,677	H1807US	United States	03/08/2004	02/14/2006	SEMICONDUCTOR COMPONENT AND METHOD OF MANUFACTURE

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PATENT OR APPL NO.	SPANSION REFERENCE NO.	COUNTRY	FILING DATE	ISSUE DATE	TITLE
7,026,843	H1813US	United States	01/16/2004	04/11/2006	FLEXIBLE CASCODE AMPLIFIER CIRCUIT WITH HIGH GAIN FOR FLASH MEMORY CELLS
10/705,346	H1817	United States	11/08/2003		FLASH MEMORY DEVICE AND METHOD FOR SECURE ACCESS TO PROTECTED DATA
7,211,473	H1859US	United States	01/12/2004	05/01/2007	METHOD AND STRUCTURE FOR CONTROLLING FLOATING BODY EFFECTS
10/789,520	H1861	United States	02/27/2004		METHOD AND SYSTEM FOR INTEGRATED CIRCUIT PROGRESSIVE RAMP FLASH ANNEAL
6,992,370	H1862US	United States	09/04/2003	01/31/2006	MEMORY CELL STRUCTURE HAVING NITRIDE LAYER WITH REDUCED CHARGE LOSS AND METHOD FOR FABRICATING SAME
6,825,526	H1878US	United States	01/16/2004	11/30/2004	STRUCTURE FOR INCREASING DRIVE CURRENT IN A MEMORY ARRAY AND RELATED METHOD
6,963,506	H1879US	United States	10/03/2003	11/08/2005	CIRCUIT AND TECHNIQUE FOR ACCURATELY SENSING LOW VOLTAGE FLASH MEMORY DEVICES
6,898,124	H1880US	United States	10/03/2003	05/24/2005	EFFICIENT AND ACCURATE SENSING CIRCUIT AND TECHNIQUE FOR LOW VOLTAGE FLASH MEMORY DEVICES
6,798,275	H1892US	United States	04/03/2003	09/28/2004	FAST, ACCURATE AND LOW POWER SUPPLY VOLTAGE BOOSTER USING A/D CONVERTER
6,841,841	H1928US	United States	12/05/2003	01/11/2005	NEUTRON DETECTING DEVICE
6,958,271	H1930US	United States	08/04/2003	10/25/2005	DUAL-LEVEL STACKED FLASH MEMORY CELL WITH A MOSFET STORAGE TRANSISTOR
7,339,226	H1930US DIV	United States	06/16/2005	03/04/2008	DUAL-LEVEL STACKED FLASH MEMORY CELL WITH A MOSFET STORAGE TRANSISTOR
7,199,416	H1934US	United States	11/10/2004	04/03/2007	SYSTEMS AND METHOD FOR A MEMORY AND/OR SELECTION ELEMENT FORMED WITHIN A RECESS IN A METAL LINE
6,723,605	H1970US	United States	12/15/2001	04/20/2004	METHOD FOR MANUFACTURING MEMORY WITH HIGH CONDUCTIVITY BITLINE AND SHALLOW TRENCH ISOLATION INTEGRATION
6,855,977	H1971	United States	05/07/2002	02/15/2005	MEMORY DEVICE WITH A SELF-ASSEMBLED POLYMER FILM AND METHOD OF MAKING THE SAME
60/289,054	H1971	United States	05/07/2001		SELF-ASSEMBLING MEMORY DEVICE
7,295,461	H1971US CON	United States	10/04/2004	11/13/2007	MEMORY DEVICE WITH A SELF-ASSEMBLED POLYMER FILM AND METHOD OF MAKING THE SAME
6,873,540	H1972	United States	05/07/2002	03/29/2005	COMPOSITE MOLECULAR SWITCHING DEVICE
60/289,060	H1972	United States	05/07/2001		COMPOSITE MOLECULAR SWITCHING DEVICE
7,113,420	H1972US DIV	United States	01/12/2005	09/26/2006	MOLECULAR MEMORY CELL
6,627,944	H1973	United States	05/07/2002	09/30/2003	FLOATING GATE MEMORY DEVICE USING COMPOSITE MOLECULAR MATERIAL
60/289,091	H1973	United States	05/07/2001		FLOATING GATE MEMORY DEVICE USING COMPOSITE MOLECULAR MATERIAL
6,809,955	H1975	United States	05/07/2002	10/26/2004	ADDRESSABLE AND ELECTRICALLY REVERSIBLE MEMORY SWITCH
60/289,057	H1975	United States	05/07/2001		ELECTRICALLY ADDRESSABLE MEMORY SWITCH
7,145,793	H1975US CON	United States	06/21/2004	12/05/2006	ELECTRICALLY ADDRESSABLE MEMORY SWITCH
6,781,868	H1976	United States	05/07/2002	08/24/2004	MOLECULAR MEMORY DEVICE
60/289,056	H1976	United States	05/07/2001		ELECTRICALLY ADDRESSABLE MEMORY SWITCH WITH BUILT-IN LEAKAGE CURRENT BARRIER
7,157,750	H1976US CON	United States	07/27/2004	01/02/2007	MOLECULAR MEMORY DEVICE
6,844,608	H1977	United States	05/07/2002	01/18/2005	REVERSIBLE FIELD-PROGRAMMABLE ELECTRIC INTERCONNECTS
60/289,061	H1977	United States	05/07/2001		REVERSIBLY FIELD-PROGRAMMABLE ELECTRIC INTERCONNECTS
7,183,141	H1977US DIV	United States	12/30/2004	02/27/2007	REVERSIBLE FIELD-PROGRAMMABLE ELECTRIC INTERCONNECTS
7,012,276	H1978	United States	09/17/2002	03/14/2006	ORGANIC THIN FILM ZENER DIODES
6,992,323	H1979	United States	08/13/2001	01/31/2006	MEMORY CELL
6,962,849	H1983US	United States	12/05/2003	11/08/2005	HARD MASK AND PACER FOR SUBLITHOGRAPHIC BITLINE
7,160,773	H1984US	United States	05/05/2004	01/09/2007	METHODS AND APPARATUS FOR WORDLINE PROTECTION IN FLASH MEMORY DEVICES
6,958,272	H1985US	United States	01/12/2004	10/25/2005	POCKET IMPLANT FOR COMPLEMENTARY BIT DISTURB IMPROVEMENT AND CHARGING IMPROVEMENT OF SONOS MEMORY CELL
7,176,113	H1986US	United States	06/07/2004	02/13/2007	LDC IMPLANT FOR MIRROR BIT TO IMPROVE VT ROLL OFF AND FORMS SHARPER JUNCTION
6,872,609	H1987US	United States	01/12/2004	03/29/2005	NARROW BITLINE USING SAFIER FOR MIRROBIT
6,834,012	H1988US	United States	06/08/2004	12/21/2004	MEMORY DEVICE AND METHODS OF USING NEGATIVE GATE STRESS TO CORRECT OVER-ERASED MEMORY CELLS
6,934,190	H1989US	United States	06/09/2004	08/23/2005	RAMP SOURCE HOT-HOLE PROGRAMMING FOR TRAP BASED NONVOLATILE MEMORY DEVICES
7,507,661	H1990US	United States	08/11/2004	03/24/2009	METHOD OF FORMING NARROWLY SPACED FLASH MEMORY CONTACT OPENINGS AND LITHOGRAPHY MASKS
10/841,788	H1991US	United States	05/07/2004		FLASH MEMORY CELL WITH THIN UPPER DIELECTRIC
7,120,063	H1992US	United States	05/07/2004	10/10/2006	FLASH MEMORY CELL AND METHODS FOR PROGRAMMING AND ERASING
7,215,577	H1992US DIV	United States	08/29/2006	05/08/2007	FLASH MEMORY CELL AND METHODS FOR PROGRAMMING AND ERASING
6,989,320	H1993US	United States	05/11/2004	01/24/2006	BITLINE IMPLANT UTILIZING DUAL POLY
7,020,021	H1994US	United States	11/04/2004	03/28/2006	RAMPED SOFT PROGRAMMING FOR CONTROL OF ERASE VOLTAGE DISTRIBUTIONS IN FLASH MEMORY DEVICES
7,142,455	H1995US	United States	05/04/2004	11/28/2006	POSITIVE GATE STRESS DURING ERASE TO IMPROVE RETENTION IN MULTY-LEVEL, NON-VOLATILE FLASH MEMORY
7,029,975	H1996US	United States	05/04/2004	04/18/2006	METHOD AND APPARATUS FOR ELIMINATING WORD LINE BENDING BY SOURCE SIDE IMPLANTATION
7,272,060	H1997US	United States	12/01/2004	09/18/2007	METHOD, SYSTEM, AND CIRCUIT FOR PERFORMING A MEMORY RELATED OPERATION

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PATENT OR APPL NO.	SPANSION REFERENCE NO.	COUNTRY	FILING DATE	ISSUE DATE	TITLE
7,307,002	H1998US	United States	04/04/2005	12/11/2007	NON-CRITICAL COMPLEMENTARY MASKING METHOD FOR POLY-1 DEFINITION IN FLASH MEMORY DEVICE FABRICATION
10/789,533	H1999	United States	02/27/2004		FABRICATING SEMICONDUCTORS USING THICK SOURCE DRAIN NITRIDE TO ACHIEVE WIDE SILICON WIDTHS
7,122,465	H2003US	United States	12/02/2004	10/17/2006	METHOD FOR ACHIEVING INCREASED CONTROL OVER INTERCONNECT LINE THICKNESS ACROSS A WAFER AND BETWEEN WAFERS
7,026,702	H2015US CIP	United States	02/11/2004	04/11/2006	MEMORY DEVICE
7,254,053	H2016US CIP	United States	02/11/2004	08/07/2007	ACTIVE PROGRAMMING AND OPERATION OF A MEMORY DEVICE
7,221,599	H2018US	United States	11/01/2004	05/22/2007	POLYMER MEMORY CELL OPERATION
10/921,587	H2025	United States	08/19/2004		FLASH MEMORY CELL WITH EPITAXIAL BITLINES AND FABRICATION METHOD THEREFOR
11/388,977	H2075US	United States	03/27/2006		METHOD OF FORMING A CONTACT WITH DENSIFIED MOCVD TIN ON CONTACT SIDEWALLS
7,262,422	H2114US	United States	07/01/2005	08/28/2007	USE OF SUPERCRITICAL FLUID TO DRY WAFER AND CLEAN LENS IN IMMERSION LITHOGRAPHY
7,407,882	H2135US	United States	08/27/2004	08/05/2008	SEMICONDUCTOR COMPONENT HAVING A CONTACT STRUCTURE AND METHOD OF MANUFACTURE
7,344,912	H2157US	United States	03/01/2005	03/18/2008	METHOD FOR PATTERNING ELECTRICALLY CONDUCTING POLY(PHENYL ACETYLENE) AND POLY (DIPHENYL ACETYLENE)
11/109,965	H2210US	United States	04/19/2005		SEMICONDUCTOR COMPONENT AND METHOD OF MANUFACTURE
7,217,660	H2211US	United States	04/19/2005	05/15/2007	METHOD FOR MANUFACTURING A SEMICONDUCTOR COMPONENT THAT INHIBITS FORMATION OF WORMHOLES
7,378,310	H2215US	United States	04/27/2005	05/27/2008	METHOD FOR MANUFACTURING A MEMORY DEVICE HAVING A NANOCRYSTAL CHARGE STORAGE REGION
7,335,594	H2216US	United States	04/27/2005	02/26/2008	METHOD FOR MANUFACTURING A MEMORY DEVICE HAVING A NANOCRYSTAL CHARGE STORAGE REGION
11/407,916	H2242	United States	04/21/2006		METHOD OF REWORKING PHOTORESISTS
11/407,894	H2243	United States	04/21/2006		METHOD TO CONTROL THE PRE METAL DIELECTRIC/SILICON INTERFACE TO IMPROVE THE THRESHOLD VOLTAGE DISTRIBUTION AFTER CYCLING
11/407,935	H2246US	United States	04/21/2006		PROTECTIVE UV BLOCKING LAYERS FOR PLASMA PROCESSING
11/407,929	H2247US	United States	04/21/2006		IMPROVING THE OPTICAL CHARACTERISTICS OF AMORPHOUS CARBON
8,415,256	H2249CON	United States	12/30/2010	04/09/2013	GAP-FILLING WITH UNIFORM PROPERTIES
7,884,030	H2249US	United States	04/21/2006	02/08/2011	GAP-FILLING WITH UNIFORM PROPERTIES
7,358,191	H2256US	United States	03/24/2006	04/15/2008	METHOD FOR DECREASING SHEET RESISTIVITY VARIATIONS OF AN INTERCONNECT METAL LAYER
6,232,663	JC137496US	United States	08/01/1997	05/15/2001	SEMICONDUCTOR DEVICE HAVING INTERLAYER INSULATOR AND METHOD FOR FABRICATING THEREOF
6,187,640	JC394297US	United States	11/17/1998	02/13/2001	SEMICONDUCTOR DEVICE MANUFACTURING METHOD
6,579,769	JC394297US DIV	United States	12/01/2000	06/17/2003	SEMICONDUCTOR DEVICE MANUFACTURING METHOD INCLUDING FORMING FOX WITH DUAL OXIDATION
6,362,049	JC684497US	United States	11/05/1999	03/26/2002	HIGH YIELD PERFORMANCE SEMICONDUCTOR PROCESS FLOW FOR NAND FLASH MEMORY PRODUCTS
60/111,012	JC684497US PROV	United States	12/04/1998		HIGH YIELD, HIGH PERFORMANCE SEMICONDUCTOR PROCESS FLOW FOR NAND FLASH MEMORY PRODUCTS
09/163,155	JC685497US CON	United States	10/02/2000		HIGH TEMPERATURE DEPOSITION OF OXIDE LAYER THAT PROTECTS AGAINST IMPLANTATION DAMAGE
6,057,193	JC688497US	United States	04/16/1998	05/02/2000	ELIMINATION OF POLY-CAP FOR EASY POLY1 CONTACT FOR NAND PRODUCT
6,312,991	JC688497US CON1	United States	03/21/2000	11/06/2001	ELIMINATION OF POLY-CAP FOR EASY POLY1 CONTACT FOR NAND PRODUCT
6,177,312	JC691497US	United States	03/26/1998	01/23/2001	METHOD FOR REMOVING CONTAMINATE NITROGEN FROM THE PERIPHERAL GATE REGION OF A NON-VOLATILE MEMORY DEVICE DURING PRODUCTION OF SUCH DEVICE
5,907,781	JC818597US	United States	03/27/1998	05/25/1999	PROCESS FOR FABRICATING AN INTEGRATED CIRCUIT WITH A SELF- ALIGNED CONTACT
6,444,530	JC818597US CON	United States	05/25/1999	09/03/2002	PROCESS FOR FABRICATING AN INTEGRATED CIRCUIT WITH A SELF- ALIGNED CONTACT
09/473,988	JD811US	United States	12/29/1999		SEMICONDUCTOR DEVICE AND THE METHOD OF MANUFACTURING THE SAME
6,285,599	JD831US	United States	05/02/2000	09/04/2001	DECODED SOURCE LINES TO TIGHTEN ERASE VI DISTRIBUTION
6,272,046	JD850US	United States	05/02/2000	08/07/2001	INDIVIDUAL SOURCE LINE TO DECREASE COLUMN LEAKAGE
6,727,143	JD922US	United States	03/22/2000	04/27/2004	METHOD AND SYSTEM FOR REDUCING CHARGE GAIN AND CHARGE LOSS WHEN USING AN ARC LAYER IN INTERLAYER DIELECTRIC FORMATION
6,492,229	JDA01034	United States	12/04/2000	12/10/2002	SEMICONDUCTOR DEVICE HAVING REDUCED FIELD OXIDE RECESS AND METHOD OF FABRICATION
7,742,741	JDE0584US	United States	12/21/2005	06/22/2010	PORTABLE WIRELESS DATA STORAGE DEVICE
10/939,729	JH2118US	United States	09/13/2004		OPTICAL TECHNIQUE FOR MONITORING COPPER SULFIDE FORMATION ON COPPER SURFACE
7,135,396	JH2119US	United States	09/13/2004	11/14/2006	METHOD OF MAKING A SEMICONDUCTOR STRUCTURE
10/979,374	JH2129	United States	11/01/2004		CONTROLLED ASH PROCESS ON HARDENED POLYMER FILM
7,294,573	JH2153US	United States	01/13/2005	11/13/2007	METHOD FOR CONTROLLING POLY 1 THICKNESS AND UNIFORMITY IN A MEMORY ARRAY FABRICATION PROCESS
7,309,650	JH2209US	United States	02/24/2005	12/18/2007	MEMORY DEVICE HAVING A NANOCRYSTAL CHARGE STORAGE REGION AND METHOD"
7,994,047	JH2223US	United States	11/22/2005	08/09/2011	INTEGRATED CIRCUIT CONTACT SYSTEM
11/201,885	JH2225US	United States	08/11/2005		METHOD OF DEPOSITING GE USING PHYSICAL VAPOR DETECTION
11/251,254	JH2236	United States	10/14/2005		ALPHA PHASE TANTALUM DIFFUSION BARRIER FOR A TERMINAL METAL LAYER AND METHOD FOR FABRICATING SAME

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PATENT OR APPL NO.	SPANSION REFERENCE NO.	COUNTRY	FILING DATE	ISSUE DATE	TITLE
7,235,867	JNY0040	United States	11/01/2004	06/26/2007	A SEMICONDUCTOR DEVICE WITH ELECTRICALLY BIASED DIE EDGE SEAL
10/940,369	JTT5691US	United States	09/14/2004		METHOD AND SYSTEM FOR CALIBRATING INTEGRATED METROLOGY SYSTEMS AND STAND-ALONE METROLOGY SYSTEMS THAT ACQUIRE WAFER STATE DATA
7,519,447	JTT5695US	United States	10/05/2004	04/14/2009	METHOD AND APPARATUS FOR INTEGRATING MULTIPLE SAMPLE PLANS
7,277,824	JTT5697US	United States	07/13/2005	10/02/2007	METHOD AND APPARATUS FOR CLASSIFYING FAULTS BASED ON WAFER STATE DATA AND SENSOR TOOL TRACE DATA
7,282,374	JTT5699US	United States	11/03/2004	10/16/2007	METHOD AND APPARATUS FOR COMPARING DEVICE AND NON-DEVICE STRUCTURES
10/979,256	JTT5710US	United States	11/02/2004		METHODS AND SYSTEMS FOR QUALIFYING PROCESSES AND TOOLS USING PROCESS THREADS THAT EXHIBIT DESIRED CHARACTERISTICS
7,315,765	JTT5711US	United States	07/29/2005	01/01/2008	AUTOMATED CONTROL THREAD DETERMINATION BASED UPON POST-PROCESS CONSIDERATION
7,337,032	JTT5714US	United States	10/04/2004	02/26/2008	SCHEDULING AHEAD FOR VARIOUS PROCESSES
11/360,043	JTT5732US	United States	02/23/2006		METHOD AND APPARATUS FOR SCHEDULING AND DELIVERY OF SEND-AHEAD WAFERS
7,299,106	JTT5733US	United States	04/19/2005	11/20/2007	METHOD AND APPARATUS FOR SCHEDULING METROLOGY BASED ON A JEOPARDY COUNT
11/243,931	JTT5792US	United States	10/05/2005		METHOD AND APPARATUS FOR MODIFYING SAMPLING PLANS BASED ON WORK-IN-PROCESS LEVELS
7,460,920	JTT5931US	United States	02/22/2006	12/02/2008	DETERMINING SCHEDULING PRIORITY USING FABRICATION SIMULATION
7,623,936	JTT5932US	United States	02/16/2006	11/24/2009	DETERMINING SCHEDULING PRIORITY USING QUEUE TIME OPTIMIZATION
4,654,830	M84-003	United States	11/27/1984	03/31/1987	METHOD AND STRUCTURE FOR DISABLING AND REPLACING DEFECTIVE MEMORY IN A PROM
09/595,422	P063US	United States	06/15/2000		FLASH MEMORY DEVICE AND A METHOD OF FABRICATION THEREOF
6,979,619	P063US DIV	United States	08/28/2001	12/27/2005	FLASH MEMORY DEVICE AND A METHOD OF FABRICATION THEREOF
10/119,571	P065D1	United States	04/09/2002		METHOD AND SYSTEM FOR REDUCING SHORT CHANNEL EFFECTS IN A MEMORY DEVICE BY REDUCTION OF DRAIN THERMAL CYCLING
10/689,298	P065D1C1	United States	10/20/2003		METHOD AND SYSTEM FOR REDUCING SHORT CHANNEL EFFECTS IN A MEMORY DEVICE BY REDUCTION OF DRAIN THERMAL CYCLING
6,509,202	P100US	United States	06/05/2001	01/21/2003	METHOD AND SYSTEM FOR QUALIFYING AN ONO LAYER IN A SEMICONDUCTOR DEVICE
7,864,606	P-10174-US	United States	09/18/2008	01/04/2011	METHOD, DEVICE AND SYSTEM FOR REGULATING ACCESS TO AN INTEGRATED CIRCUIT (IC) DEVICE
7,864,588	P-10176-US	United States	09/17/2008	01/04/2011	MINIMIZING READ DISTURB IN AN ARRAY FLASH CELL
8,593,881	P-10233-US	United States	11/22/2011	11/26/2013	PRE-CHARGE SENSING SCHEME FOR NON-VOLATILE MEMORY (NVM)
8,120,960	P-10233-US1D	United States	11/07/2008	02/21/2012	METHOD AND APPARATUS FOR ACCESSING A NON-VOLATILE MEMORY ARRAY COMPRISING UNIDIRECTIONAL CURRENT FLOWING MULTIPLEXERS
7,924,628	P-10234-US	United States	11/14/2008	04/12/2011	OPERATION OF A NON-VOLATILE MEMORY (NVM)
8,264,884	P-10235-US	United States	02/23/2009	09/11/2012	METHODS, CIRCUITS AND SYSTEMS FOR READING NON-VOLATILE MEMORY CELLS
8,189,397	P-10258-US	United States	01/08/2009	05/29/2012	RETENTION IN NVM WITH TOP OR BOTTOM INJECTION
6,768,165	P-1025US	United States	08/01/1997	07/27/2004	TWO BIT NON-VOLATILE ELECTRICALLY ERASABLE AND PROGRAMMABLE SEMICONDUCTOR MEMORY CELL UTILIZING ASYMMETRICAL CHARGE TRAPPING
6,649,972	P-1025US CON	United States	04/15/2002	11/18/2003	TWO BIT NON-VOLATILE ELECTRICALLY ERASABLE AND PROGRAMMABLE SEMICONDUCTOR MEMORY CELL UTILIZING ASYMMETRICAL CHARGE TRAPPING
7,116,577	P-1025US CON2	United States	06/09/2004	10/03/2006	TWO BIT NON-VOLATILE ELECTRICALLY ERASABLE AND PROGRAMMABLE SEMICONDUCTOR MEMORY CELL UTILIZING ASYMMETRICAL CHARGE TRAPPING
7,400,529	P-1025US CON3	United States	04/17/2007	07/15/2008	A NON-VOLATILE MEMORY CELL AND NON-VOLATILE MEMORY DEVICE USING SAID CELLS
7,405,969	P-1025US CON4	United States	08/01/2006	07/29/2008	NON-VOLATILE MEMORY CELL AND NON-VOLATILE MEMORY DEVICES
6,011,725	P-1025US DIV	United States	02/04/1999	01/04/2000	TWO BIT NON-VOLATILE ELECTRICALLY ERASABLE AND PROGRAMMABLE SEMICONDUCTOR MEMORY CELL UTILIZING ASYMMETRICAL CHARGE TRAPPING
7,945,825	P-10285-US	United States	11/25/2008	05/17/2011	RECOVERY WHILE PROGRAMMING NON-VOLATILE MEMORY (NVM)
8,253,452	P-10294-US	United States	02/21/2006	08/28/2012	CIRCUIT AND METHOD FOR POWERING UP AN INTEGRATED CIRCUIT AND AN INTEGRATED CIRCUIT UTILIZING SAME
8,400,841	P-10472-US	United States	06/15/2005	03/19/2013	NOT FILED BY SKGF; AWAITING RECEIPT OF FILE/AUTHORIZATION TO PROCEED. PART OF TRANSFER-IN PORTFOLIO FOR SPANSION.
11/935,544	P-10933-US	United States	11/06/2007		PROCESS OF FORMING AN ELECTRONIC DEVICE INCLUDING DEPOSITING A CONDUCTIVE LAYER OVER A SEED LAYER
5,966,603	P-1164US	United States	06/11/1997	10/12/1999	NROM FABRICATION METHOD WITH A PERIPHERY PORTION
6,297,096	P-1164US CON	United States	07/30/1999	10/02/2001	AN NROM FABRICATION METHOD
6,803,279	P-1164US CON2	United States	10/01/2001	10/12/2004	NROM FABRICATION METHOD
7,943,979	P-1164-US3	United States	10/12/2004	05/17/2011	AN NROM FABRICATION METHOD
8,106,442	P-1164-US4C	United States	10/31/2007	01/31/2012	NROM FABRICATION METHOD
8,008,709	P-1164-US5C	United States	12/27/2007	08/30/2011	NROM fabrication method

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PATENT OR APPL NO.	SPANSION REFERENCE NO.	COUNTRY	FILING DATE	ISSUE DATE	TITLE
60/415,210	P118PR	United States	09/30/2002		DIFFERENTIALLY MIS-ALIGNED CONTACTS IN FLASH ARRAYS TO CALIBRATE FAILURE MODES
7,032,193	P118US	United States	12/17/2002	04/18/2006	DIFFERENTIALLY MIS-ALIGNED CONTACTS IN FLASH ARRAYS TO CALIBRATE FAILURE MODES
5,963,465	P-1251US	United States	12/12/1997	10/05/1999	SYMMETRIC SEGMENTED MEMORY ARRAY ARCHITECTURE
6,633,496	P-1251US CIP	United States	12/04/2000	10/14/2003	Symmetric architecture for memory cells having widely spread metal bit lines
6,285,574	P-1251US CIP1	United States	07/06/1999	09/04/2001	SYMMETRIC SEGMENTED MEMORY ARRAY ARCHITECTURE
6,633,499	P-1251US CIP2	United States	03/28/2000	10/14/2003	A METHOD FOR REDUCING VOLTAGE DROPS IN SYMMETRIC ARRAY ARCHITECTURES
6,430,077	P-1251US CIP3	United States	03/28/2000	08/06/2002	A METHOD FOR REGULATING READ VOLTAGE LEVEL AT THE DRAIN OF A CELL IN A SYMMETRIC ARRAY
6,704,217	P-1251US CON	United States	01/30/2002	03/09/2004	SYMMETRIC SEGMENTED MEMORY ARRAY ARCHITECTURE
6,335,874	P-1251US CON2	United States	09/11/2000	01/01/2002	Symmetric segmented memory array architecture
6,030,871	P-1273US	United States	05/05/1998	02/29/2000	PROCESS FOR PRODUCING TWO BIT ROM CELL UTILIZING ANGLED IMPLANT
6,201,282	P-1273US DIV	United States	12/23/1999	03/13/2001	TWO BIT ROM CELL AND PROCESS FOR PRODUCING SAME
6,566,699	P-1326US CON	United States	08/28/2001	05/20/2003	NON-VOLATILE ELECTRICALLY ERASABLE AND PROGRAMMABLE SEMICONDUCTOR MEMORY CELL UTILIZING ASYMMETRICAL CHARGE TRAPPING
6,803,299	P-1326US CON2	United States	04/14/2003	10/12/2004	NON-VOLATILE ELECTRICALLY ERASABLE AND PROGRAMMABLE SEMICONDUCTOR MEMORY CELL UTILIZING ASYMMETRICAL CHARGE TRAPPING
6,552,387	P-1326US DIV	United States	12/14/1998	04/22/2003	NON-VOLATILE ELECTRICALLY ERASABLE AND PROGRAMMABLE SEMICONDUCTOR MEMORY CELL UTILIZING ASYMMETRICAL CHARGE TRAPPING
6,215,148	P-1452US	United States	05/20/1998	04/10/2001	NROM CELL WITH IMPROVED PROGRAMMING ERASING AND CYCLING
6,348,711	P-1452US CON	United States	10/06/1999	02/19/2002	NROM CELL WITH SELF-ALIGNED PROGRAMMING AND ERASURE AREAS
6,664,588	P-1452US CON2	United States	06/14/2001	12/16/2003	NROM CELL WITH SELF-ALIGNED PROGRAMMING AND ERASURE AREAS
6,477,084	P-1452US DIV	United States	02/07/2001	11/05/2002	NROM CELL WITH IMPROVED PROGRAMMING ERASING AND CYCLING
6,128,226	P-1870US	United States	02/04/1999	10/03/2000	Method and apparatus for operating with a close to ground signal
6,078,539	P-1894US	United States	02/04/1999	06/20/2000	METHOD AND DEVICE FOR INITIATING A MEMORY ARRAY DURING POWER UP
6,233,180	P-1902US	United States	02/04/1999	05/15/2001	Device for determining the validity of word line conditions and for delaying data sensing operation
6,134,156	P-1907US	United States	02/04/1999	10/17/2000	METHOD FOR INITIATING A RETRIEVAL PROCEDURE IN VIRTUAL GROUND ARRAYS
6,118,267	P-1975US	United States	02/04/1999	09/12/2000	Apparatus for switching a reference voltage between high and low impedance states
6,133,095	P-1978US	United States	02/04/1999	10/17/2000	Method for creating diffusion areas for sources and drains without an etch step
6,337,502	P-2024US	United States	06/18/1999	01/08/2002	METHOD AND CIRCUIT FOR MINIMIZING THE CHARGING EFFECT DURING MANUFACTURE OF SEMICONDUCTOR DEVICES
6,627,555	P-2024US DIV	United States	02/05/2001	09/30/2003	METHOD AND CIRCUIT FOR MINIMIZING THE CHARGING EFFECT DURING MANUFACTURE OF SEMICONDUCTOR DEVICES
6,396,741	P-2448US	United States	05/04/2000	05/28/2002	PROGRAMMING OF NONVOLATILE MEMORY CELLS
6,535,434	P-2448US	United States	04/05/2001	03/18/2003	PROGRAMMING AND ERASING METHODS FOR A NON-VOLATILE MEMORY CELL
6,584,017	P-2448US CIP	United States	04/05/2001	06/24/2003	PROGRAMMING AND ERASING METHODS FOR A NON-VOLATILE MEMORY CELL
6,928,001	P-2448US CIP	United States	12/07/2000	08/09/2005	PROGRAMMING AND ERASING METHODS FOR A NON-VOLATILE MEMORY CELL
7,064,983	P-2448US CIP	United States	06/05/2003	06/20/2006	PROGRAMMING AND ERASING METHODS FOR A NON-VOLATILE MEMORY CELL
7,512,009	P-2448US CIP	United States	04/27/2006	03/31/2009	PROGRAMMING AND ERASING METHODS FOR A NON-VOLATILE MEMORY CELL
7,701,779	P-2448US CIP	United States	09/11/2006	04/20/2010	PROGRAMMING AND ERASING METHODS FOR A NON-VOLATILE MEMORY CELL
6,490,204	P-2448US CON	United States	11/01/2001		PROGRAMMING AND ERASING METHODS FOR A REFERENCE CELL OF AN NROM ARRAY
10/300,924	P-2448US CON	United States	04/01/2002		PROGRAMMING AND ERASING METHODS FOR A REFERENCE CELL OF AN NROM ARRAY
6,829,172	P-2448US CON2	United States	05/28/2002	12/07/2004	PROGRAMMING OF NONVOLATILE MEMORY CELLS
6,937,521	P-2448US DIV	United States	05/28/2002	08/30/2005	PROGRAMMING AND ERASING METHODS FOR A NON-VOLATILE MEMORY CELL
6,292,394	P-2505US	United States	06/29/2000	09/18/2001	METHOD FOR PROGRAMMING OF A SEMICONDUCTOR MEMORY CELL
6,429,063	P-2781US	United States	03/06/2000	08/06/2002	NROM CELL WITH GENERALLY DECOUPLED PRIMARY AND SECONDARY INJECTION
6,614,692	P-3364US	United States	01/18/2001	09/02/2003	AN EEPROM ARRAY AND METHOD FOR OPERATION THEREOF
7,518,908	P-3364US CIP	United States	05/28/2002	04/14/2009	AN EEPROM ARRAY AND METHOD FOR OPERATION THEREOF
6,885,585	P-3454US	United States	12/20/2001	04/26/2005	AN NROM NOR ARRAY
6,636,440	P-3688US	United States	04/25/2001	10/21/2003	METHOD FOR OPERATION OF AN EEPROM ARRAY INCLUDING REFRESH THEREOF
6,677,805	P-3819US	United States	04/05/2001	01/13/2004	CHARGE PUMP STAGE WITH BODY MINIMIZATION
6,864,739	P-3819US CON	United States	12/22/2003	03/08/2005	CHARGE PUMP STAGE WITH BODY EFFECT MINIMIZATION
6,643,181	P-4006US	United States	10/24/2001	11/04/2003	METHOD FOR ERASING A MEMORY CELL
6,888,757	P-4006US CIP	United States	09/08/2003	05/03/2005	METHOD FOR ERASING A MEMORY CELL
7,098,107	P-4007US	United States	11/19/2001	08/29/2006	PROTECTIVE LAYER IN MEMORY DEVICE AND METHOD THEREFOR

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PATENT OR APPL NO.	SPANSION REFERENCE NO.	COUNTRY	FILING DATE	ISSUE DATE	TITLE
11/490,483	P-4007US CON	United States	07/20/2006		PROTECTIVE LAYER IN MEMORY DEVICE AN METHOD THEREFOR
6,828,625	P-4007US DIV	United States	07/08/2002	12/07/2004	PROTECTIVE LAYER IN MEMORY DEVICE AN METHOD THEREFOR
6,791,396	P-4109US	United States	10/24/2001	09/14/2004	STACK ELEMENT CIRCUIT
6,583,007	P-4141US	United States	12/20/2001	06/24/2003	REDUCING SECONDARY INJECTION EFFECTS
6,917,544	P-4629US	United States	07/10/2002	07/12/2005	A MULTIPLE USE MEMORY CHIP
6,954,382	P-4629US CON	United States	12/30/2004	10/11/2005	A MULTIPLE USE MEMORY CHIP
7,489,562	P-4629US CON2	United States	10/31/2007	02/10/2009	A MULTIPLE USE MEMORY CHIP
7,573,745	P-4629US CON3	United States	10/31/2007	08/11/2009	A MULTIPLE USE MEMORY CHIP
7,738,304	P-4629US CON4	United States	10/11/2005	06/15/2010	A MULTIPLE USE MEMORY CHIP
6,975,536	P-4675US	United States	08/05/2002	12/13/2005	Mass storage array and methods for operation thereof
60/352,549	P-4676IL	United States	01/31/2002		METHOD FOR OPERATING A MEMORY DEVICE
6,700,818	P-4676US	United States	08/05/2002	03/02/2004	METHOD FOR OPERATING A MEMORY DEVICE
7,079,420	P-4676US CIP	United States	12/30/2003	07/18/2006	METHOD FOR OPERATING A MEMORY DEVICE
7,190,620	P-4676US CIP2	United States	01/06/2005	03/13/2007	METHOD FOR OPERATING A MEMORY DEVICE
7,420,848	P-4676US CON	United States	01/09/2006	09/02/2008	METHOD FOR OPERATING A MEMORY DEVICE
6,448,750	P-4723US	United States	04/05/2001	09/10/2002	VOLTAGE REGULATOR FOR NON-VOLATILE MEMORY WITH LARGE POWER SUPPLY REJECTION RATIO AND MINIMAL CURRENT DRAIN
6,665,769	P-4724US	United States	04/05/2001	12/16/2003	METHOD AND APPARATUS FOR DYNAMICALLY MASKING AN N-BIT MEMORY ARRAY HAVING INDIVIDUALLY PROGRAMMABLE CELLS
6,577,514	P-4726US	United States	04/05/2001	06/10/2003	CHARGE PUMP WITH CONSTANT BOOSTED OUTPUT VOLTAGE
6,928,527	P-4820US	United States	08/05/2002	08/09/2005	Look ahead methods and apparatus
7,062,619	P-4875US	United States	08/05/2002	06/13/2006	Mass storage device architecture and operation
6,781,897	P-5083US	United States	08/01/2002	08/24/2004	Defects detection
7,199,394	P-5084US	United States	08/17/2004	04/03/2007	POLYMER MEMORY DEVICE WITH VARIABLE PERIOD OF RETENTION TIME
6,967,896	P-5086US	United States	01/30/2003	11/22/2005	ADDRESS SCRAMBLE
7,148,739	P-5260US	United States	12/19/2002	12/12/2006	CHARGE PUMP ELEMENT WITH BODY EFFECT CANCELLATION FOR EARLY CHARGE PUMP STAGES
6,906,966	P-5262US	United States	06/16/2003	06/14/2005	FAST DISCHARGE FOR PROGRAM AND VERIFICATION
6,842,383	P-5292US	United States	01/30/2003	01/11/2005	A METHOD AND CIRCUIT FOR OPERATING A MEMORY CELL USING A SINGLE CHARGE PUMP
6,885,244	P-5414US	United States	03/24/2003	04/26/2005	OPERATIONAL AMPLIFIER WITH FAST RISE TIME
7,136,304	P-5484US	United States	10/27/2004		METHOD SYSTEM AND CIRCUIT FOR PROGRAMMING A NON-VOLATILE MEMORY ARRAY
7,675,782	P-5484US CON	United States	10/17/2006	03/09/2010	METHOD SYSTEM AND CIRCUIT FOR PROGRAMMING A NON-VOLATILE MEMORY ARRAY
6,963,505	P-5487US	United States	10/29/2003	11/08/2005	METHOD CIRCUIT AND SYSTEM FOR DETERMINING A REFERENCE VOLTAGE
6,992,932	P-5487US CIP	United States	10/29/2003	01/31/2006	A METHOD CIRCUIT AND SYSTEM FOR READ ERROR DETECTION IN A NON-VOLATILE MEMORY ARRAY
7,352,627	P-5589US	United States	01/03/2006	04/01/2008	METHOD SYSTEM AND CIRCUIT FOR OPERATING A NON-VOLATILE MEMORY ARRAY
7,715,237	P-5589US CON	United States	02/26/2008	05/11/2010	METHOD SYSTEM AND CIRCUIT FOR OPERATING A NON-VOLATILE MEMORY ARRAY
6,975,541	P-5624US	United States	03/24/2003	12/13/2005	ALTERNATING APPLICATION OF PULSES ON TWO SIDES OF A CELL
7,178,004	P-5640US	United States	09/03/2003	02/13/2007	A MEMORY ARRAY PROGRAMMING CIRCUIT AND A METHOD FOR USING THE CIRCUIT
7,743,230	P-5640US CON	United States	02/12/2007	06/22/2010	A MEMORY ARRAY PROGRAMMING CIRCUIT AND A METHOD FOR USING THE CIRCUIT
7,142,464	P-5675US	United States	03/29/2004	11/28/2006	APPARATUS AND METHODS FOR MULTI-LEVEL SENSING IN A MEMORY ARRAY
7,532,529	P-5675US CON	United States	08/14/2006	05/12/2009	APPARATUS AND METHODS FOR MULTI-LEVEL SENSING IN A MEMORY ARRAY
6,954,393	P-6061US	United States	09/16/2003	10/11/2005	READING ARRAY CELL WITH MATCHED REFERENCE CELL
7,123,532	P-6061US CIP	United States	08/01/2005	10/17/2006	OPERATING ARRAY CELLS WITH MATCHED REFERENCE CELLS
7,457,183	P-6061US CON	United States	10/16/2006	11/25/2008	OPERATING ARRAY CELLS WITH MATCHED REFERENCE CELLS
7,864,612	P-6061-US3C	United States	11/24/2008	01/04/2011	READING ARRAY CELL WITH MATCHEDREFERENCE CELL
6,922,099	P-6062US	United States	10/21/2003	07/26/2005	CLASS AB VOLTAGE REGULATOR
8,339,865	P-6273-US	United States	11/03/2008	12/25/2012	NON BINARY FLASH ARRAY ARCHITECTURE AND METHOD OF OPERATION
7,176,728	P-6274US	United States	02/10/2004	02/13/2007	High voltage low power driver
7,256,438	P-6414US	United States	06/08/2004	08/14/2007	MOS CAPACITOR WITH REDUCED PARASITIC CAPACITANCE
7,095,655	P-6415US	United States	08/05/2005		DYNAMIC MATCHING OF SIGNAL PATH AND REFERENCE PATH FOR SENSING
7,466,594	P-6415US CON	United States	07/19/2006	12/16/2008	DYNAMIC MATCHING OF SIGNAL PATH AND REFERENCE PATH FOR SENSING
7,187,595	P-6416US	United States	06/08/2004	03/06/2007	REPLENISHMENT FOR INTERNAL VOLTAGE
7,190,212	P-6417US	United States	06/08/2004	03/13/2007	POWER-UP AND BGREF CIRCUITRY
7,366,025	P-6619US	United States	06/10/2004	04/29/2008	REDUCED POWER PROGRAMMING OF NON-VOLATILE CELLS
7,599,227	P-6619US CON	United States	04/14/2008	10/06/2009	REDUCED POWER PROGRAMMING OF NON-VOLATILE CELLS
7,257,025	P-6628US	United States	12/09/2005		MEMORY FOR READING NON-VOLATILE MEMORY CELLS
7,242,618	P-6628US CIP	United States	08/15/2006		METHOD FOR READING NON-VOLATILE MEMORY CELLS
7,535,765	P-6628US CIP2	United States	07/10/2007	05/19/2009	NON-VOLATILE MEMORY DEVICE AND METHOD FOR READING CELLS
7,652,930	P-6715US	United States	06/07/2005	01/26/2010	METHOD CIRCUIT AND SYSTEM FOR ERASING ONE OR MORE NON-VOLATILE MEMORY CELLS
7,317,633	P-7004US	United States	07/05/2005	01/08/2008	PROTECTION OF NROM DEVICES FROM CHARGE DAMAGE
7,233,192	P-7450US	United States	04/06/2005	06/19/2007	AN ON/OFF CHARGE PUMP
8,098,525	P-7465-US	United States	09/17/2008	01/17/2012	PRE-CHARGE SENSING SCHEME FOR NON-VOLATILE MEMORY (NVM)

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PATENT OR APPL NO.	SPANSION REFERENCE NO.	COUNTRY	FILING DATE	ISSUE DATE	TITLE
7,184,313	P-7500US	United States	06/17/2005	02/27/2007	A METHOD CIRCUIT AND SYSTEM FOR COMPENSATING FOR TEMPERATURE INDUCED MARGIN LOSS IN NON-VOLATILE MEMORY CELLS
7,339,826	P-7632US	United States	04/11/2005	03/04/2008	THRESHOLD VOLTAGE SHIFT IN NROM CELLS
8,489,910	P-7633US	United States	06/17/2010	07/16/2013	TIMING CONTROLLER, TIMING CONTROL METHOD, AND TIMING CONTROL SYSTEM
7,369,440	P-7648US	United States	01/19/2006	05/06/2008	METHOD CIRCUIT AND SYSTEM FOR ERASING ONE OR MORE NON-VOLATILE MEMORY CELLS
7,468,926	P-7648US2	United States	01/19/2006	12/23/2008	PARTIAL ERASE VERIFY
8,053,812	P-7714-US	United States	03/13/2006	11/08/2011	Contact in planar NROM technology
5,768,192	P-878US	United States	07/23/1996	06/16/1998	NON-VOLATILE SEMICONDUCTOR MEMORY CELL UTILIZING ASYMMETRICAL CHARGE TRAPPING
7,668,017	P-9014US	United States	08/17/2005	02/23/2010	A METHOD OF ERASING NON-VOLATILE MEMORY CELLS
7,221,138	P-9082US	United States	09/27/2005	05/22/2007	METHOD AND APPARATUS FOR MEASURING CHARGE PUMP OUTPUT CURRENT
7,202,654	P-9083US	United States	09/27/2005	04/10/2007	DIODE STACK HIGH VOLTAGE REGULATOR
7,786,512	P-9095US	United States	07/18/2006	08/31/2010	Dense non-volatile memory array and method of fabrication
8,339,102	P-9126-US	United States	11/15/2004	12/25/2012	A SYSTEM AND METHOD FOR REGULATING LOADING ON AN INTEGRATED CIRCUIT POWER SUPPLY
7,638,850	P-9186US CIP	United States	05/24/2006	12/29/2009	NON-VOLATILE MEMORY STRUCTURE AND METHOD OF FABRICATION
7,964,459	P-9186-US1D	United States	12/10/2009	06/21/2011	NON-VOLATILE MEMORY STRUCTURE AND METHOD OF FABRICATION
7,804,126	P-9195US	United States	07/18/2006	09/28/2010	DENSE NON-VOLATILE MEMORY ARRAY AND METHOD OF FABRICATION
7,742,339	P-9254US	United States	07/10/2008	06/22/2010	RD ALGORITHM IMPROVEMENT FOR NROM TECHNOLOGY
7,808,818	P-9258US	United States	12/28/2006	10/05/2010	SECONDARY INJECTION FOR NROM
7,760,554	P-9300US	United States	08/02/2006	07/20/2010	NROM NON-VOLATILE MEMORY AND MODE OF OPERATION
7,638,835	P-9313US CIP	United States	12/28/2006	12/29/2009	DOUBLE DENSITY NROM WITH NITRIDE (DNDS) STRIPS
7,692,961	P-9354US	United States	08/02/2006	04/06/2010	METHOD CIRCUIT AND DEVICE FOR DISTURB-CONTROL OF PROGRAMMING NON-VOLATILE MEMORY CELLS BY HOT-HOLE (HHI) INJECTION AND BY CHANNEL
7,590,001	P-9373US	United States	12/18/2007	09/15/2009	FLASH MEMORY WITH OPTIMIZED WRITE SECTOR SPARES
8,374,045	P-9547-US	United States	12/07/2010	02/12/2013	METHODS CIRCUITS DEVICES AND SYSTEMS FOR OPERATING AN ARRAY OF NON-VOLATILE MEMORY CELLS
7,605,579	P-9557US	United States	11/21/2006	10/20/2009	MEASURING AND CONTROLLING CURRENT CONSUMPTION AND OUTPUT CURRENT OF CHARGE PUMPS
7,811,887	P-9603US	United States	11/01/2007	10/12/2010	FORMING SILICON TRENCH ISOLATION (STI) IN SEMICONDUCTOR DEVICES SELF-ALIGNED TO DIFFUSION
6,891,752	SE0002	United States	07/31/2002	05/10/2005	SYSTEM AND METHOD OF ERASE VOLTAGE CONTROL DURING MULTIPLE SECTOR ERASE OF A FLASH MEMORY DEVICE
6,771,093	SE0004US	United States	09/25/2002	08/03/2004	IMPLEMENTING REFERENCE CURRENT MEASUREMENT MODE WITHIN REFERENCE ARRAY PROGRAMMING MODE OR REFERENCE ARRAY ERASE MODE IN A SEMICONDUCTOR
6,973,003	SE0063US	United States	10/01/2003	12/06/2005	MEMORY DEVICE AND METHOD
6,980,473	SE0065US	United States	10/01/2003	12/27/2005	MEMORY DEVICE AND METHOD
6,970,368	SE0072US	United States	08/26/2003	11/29/2005	CAM (CONTENT ADDRESSABLE MEMORY) CELLS AS PART OF CORE ARRAY IN FLASH MEMORY DEVICE
6,970,806	SE0074US	United States	11/07/2003	11/29/2005	METHOD AND SYSTEM FOR TESTING ARTICLES OF MANUFACTURE
7,254,692	SE0099US	United States	03/02/2004	08/07/2007	TESTING FOR OPERATING LIFE OF A MEMORY DEVICE WITH ADDRESS CYCLING USING A GRAY CODE SEQUENCE
14/339,377	SMA13-0003US	United States	07/23/2014		DETECTING THE DRIFT OF THE DATA VALID WINDOW IN A TRANSACTION
14/315,713	SMA13-0006US	United States	06/26/2014		CONTROL CIRCUIT AND CONTROL METHOD FOR DIMMING A LIGHTING DEVICE
14/503,585	SMA13-0007US	United States	10/01/2014		ANALOG-DIGITAL CONVERSION SYSTEM AND METHOD FOR CONTROLLING THE SAME
14/464,783	SMA14-0002US	United States	08/21/2014		SWITCHING CIRCUIT
14/446,678	SMA14-0003US	United States	07/30/2014		CRYSTAL OSCILLATION CIRCUIT
14/458,542	SMA14-0004US	United States	08/13/2014		INTEGRATION OF SEMICONDUCTOR MEMORY CELLS AND LOGIC CELLS
14/539,410	SMA14-0006US	United States	11/12/2014		SEMICONDUCTOR DEVICE AND METHOD FOR MANUFACTURING THE SAME
14/447,688	SMA14-0007US	United States	07/31/2014		CONTROL APPARATUS, BUCK-BOOST POWER SUPPLY AND CONTROL METHOD
14/448,442	SMA14-0008US	United States	07/31/2014		CONTROL APPARATUS, SWITCHING POWER SUPPLY AND CONTROL METHOD
14/472,043	SMA14-0009US	United States	08/28/2014		TEST CONTROL CIRCUIT, SEMICONDUCTOR MEMORY DEVICE AND METHOD FOR TESTING THE SAME
14/513,314	SMA14-0010US	United States	10/14/2014		CRYSTAL OSCILLATOR START-UP CIRCUIT
14/659,924	SMA14-0013US	United States	03/17/2015		DEVICE AND METHOD FOR RESISTING NON-INVASIVE ATTACKS
14/517,201	SMA14-0014US	United States	10/17/2014		SIMULTANEOUS PROGRAMMING OF MANY BITS IN FLASH MEMORY
14/536,015	SMA14-0015US	United States	11/07/2014		PROTECTING CIRCUIT AND INTEGRATED CIRCUIT
14/619,592	SMA14-0016US	United States	02/11/2015		CONTROL CIRCUIT
14/551,149	SMA14-0018US	United States	11/24/2014		TEMPERATURE DETECTION CIRCUIT AND TEMPERATURE MEASUREMENT CIRCUIT
14/635,459	SMA14-0020US	United States	03/02/2015		VOLTAGE DETECTOR AND METHOD FOR DETECTING VOLTAGE
12/792,129	SP09-0001US	United States	06/02/2010		ELECTRONIC DEVICE HAVING A MOLDING COMPOUND INCLUDING A COMPOSITE MATERIAL
61/221,485	SP09-0001US PROV	United States	06/29/2009		ELECTRONIC DEVICE HAVING A MOLDING COMPOUND INCLUDING ZINC

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PATENT OR APPL NO.	SPANSION REFERENCE NO.	COUNTRY	FILING DATE	ISSUE DATE	TITLE
8,208,296	SP09-0003US	United States	02/16/2010	06/26/2012	APPARATUS AND METHOD FOR EXTENDED NITRIDE LAYER IN A FLASH MEMORY
8,877,641	SP09-0004US	United States	12/28/2009	11/04/2014	LINE EDGE ROUGHNESS IMPROVEMENT FOR SMALL PITCHES
14/517,470	SP09-0004US DIV	United States	10/17/2014		LINE EDGE ROUGHNESS IMPROVEMENT FOR SMALL PITCHES
12/960,411	SP09-0007US	United States	12/03/2010		METHOD AND APPARATUS FOR NAND MEMORY WITH RECESSED SOURCE/DRAIN REGION
8,836,012	SP09-0008US	United States	10/04/2012	09/16/2014	PROPOSED DUAL SPACER FORMATION
8,114,756	SP09-0012US	United States	08/04/2010	02/14/2012	METHOD AND MANUFACTURE FOR HIGH VOLTAGE GATE OXIDE FORMATION AFTER SHALLOW TRENCH ISOLATION FORMATION
8,790,530	SP09-0016US	United States	02/10/2010	07/29/2014	PLANAR CELL ON CUT USING IN-SITU POLYMER DEPOSITION AND ETCH
8,202,779	SP09-0017US CIP	United States	09/27/2010	06/19/2012	METHODS FOR FORMING A MEMORY CELL HAVING A TOP OXIDE SPACER
7,943,980	SP09-0017US DIV	United States	09/27/2010	05/17/2011	METHODS FOR FORMING A MEMORY CELL HAVING A TOP OXIDE SPACER
8,384,146	SP09-0017US DIV2	United States	03/23/2012	02/26/2013	METHODS FOR FORMING A MEMORY CELL HAVING A TOP OXIDE SPACER
8,375,262	SP09-0026US	United States	01/20/2010	02/12/2013	FIELD PROGRAMMABLE REDUNDANT MEMORY FOR ELECTRONIC DEVICES
8,825,920	SP09-0027US	United States	01/20/2010	09/02/2014	FIELD UPGRADABLE FIRMWARE FOR ELECTRONIC DEVICES
8,498,162	SP09-0028US	United States	04/29/2011	07/30/2013	FLASH MEMORY WRITE ALGORITHM WITH PULSE SKIPPING FOR FAST BITS
8,842,477	SP09-0030US	United States	06/01/2012	09/23/2014	METHOD, APPARATUS, AND MANUFACTURE FOR FLASH MEMORY ADAPTIVE ALGORITHM
8,542,537	SP09-0031US	United States	04/29/2011	09/24/2013	METHOD AND APPARATUS FOR TEMPERATURE COMPENSATION FOR PROGRAMMING AND ERASE DISTRIBUTIONS IN A FLASH MEMORY
8,325,531	SP09-0032US	United States	01/07/2010	12/04/2012	MEMORY DEVICE
8,638,633	SP09-0034US	United States	04/29/2011	01/28/2014	APPARATUS AND METHOD FOR EXTERNAL CHARGE PUMP ON FLASH MEMORY MODULE
12/701,391	SP09-0036US	United States	02/05/2010		LAYOUT TO MASK METHODOLOGY FOR LAYERS REQUIRING DOUBLE PATTERNING
8,244,964	SP09-0037US	United States	12/23/2009	08/14/2012	READ PREAMBLE FOR DATA CAPTURE OPTIMIZATION
8,551,858	SP09-0039US CIP	United States	02/03/2010	10/08/2013	SELF-ALIGNED SI RICH NITRIDE CHARGE TRAP LAYER ISOLATION FOR CHARGE TRAP FLASH MEMORY
14/019,192	SP09-0039US DIV	United States	09/05/2013		SELF-ALIGNED SI RICH NITRIDE CHARGE TRAP LAYER ISOLATION FOR CHARGE TRAP FLASH MEMORY
8,681,558	SP09-0041US	United States	10/07/2009	03/25/2014	PARALLEL BITLINE NONVOLATILE MEMORY EMPLOYING CHANNEL-BASED PROCESSING TECHNOLOGY
14/169,549	SP09-0041US DIV	United States	01/31/2014		PARALLEL BITLINE NONVOLATILE MEMORY EMPLOYING CHANNEL-BASED PROCESSING TECHNOLOGY
8,291,126	SP09-0042US	United States	11/05/2012	05/13/2014	VARIABLE READ LATENCY ON A SERIAL MEMORY BUS
8,725,920	SP09-0042US	United States	03/23/2010	10/16/2012	VARIABLE READ LATENCY ON A SERIAL MEMORY BUS
14/228,384	SP09-0042US CON	United States	03/28/2014		VARIABLE READ LATENCY ON A SERIAL MEMORY BUS
12/880,021	SP09-0042US CON2	United States	09/10/2010		APPARATUS, METHOD, AND MANUFACTURE FOR USING A READ PREAMBLE TO OPTIMIZE DATA CAPTURE
8,349,685	SP09-0044US	United States	12/03/2010	01/08/2013	DUAL SPACER FORMATION IN FLASH MEMORY
12/722,014	SP09-0046US	United States	03/11/2010		NAND ARRAY SOURCE DRAIN DOPING SCHEME SELF-ALIGNED TO ARRAY MINI-SPACER
8,686,492	SP09-0047US	United States	03/11/2010	04/01/2014	NON-VOLATILE FINFET MEMORY DEVICE AND MANUFACTURING METHOD THEREOF
8,785,275	SP09-0047US DIV	United States	02/03/2014	07/22/2014	NON-VOLATILE FINFET MEMORY DEVICE AND MANUFACTURING METHOD THEREOF
8,598,646	SP09-0048US	United States	01/13/2011	12/03/2013	NON-VOLATILE FINFET MEMORY ARRAY AND MANUFACTURING METHOD THEREOF
14/051,584	SP09-0048US DIV	United States	10/11/2013		NON-VOLATILE FINFET MEMORY ARRAY AND MANUFACTURING METHOD THEREOF
8,134,853	SP09-0049US	United States	12/18/2009	03/13/2012	HIGH READ SPEED ELECTRONIC MEMORY WITH SERIAL ARRAY TRANSISTORS
8,279,674	SP09-0049US B	United States	06/28/2010	10/02/2012	HIGH READ SPEED MEMORY WITH GATE ISOLATION
8,520,437	SP09-0049US CON	United States	08/31/2012	08/27/2013	HIGH READ SPEED MEMORY WITH GATE ISOLATION
8,291,165	SP09-0050US	United States	03/12/2010	10/16/2012	ELECTRONIC DEVICES USING REMOVABLE AND PROGRAMMABLE ACTIVE PROCESSING MODULES
12/723,590	SP09-0051US	United States	03/12/2010		HOME AND BUILDING AUTOMATION
12/723,582	SP09-0052US	United States	03/12/2010		SYSTEM AND METHODS FOR CONTROLLING AN ELECTRONIC DEVICE
6,995,437	SP09-0053	United States	06/16/2004	02/07/2006	METHOD OF FORMING CORE AND PERIPHERY GATES INCLUDING TWO CRITICAL MASKING STEPS TO FORM A HARD MASK IN A CORE REGION THAT INCLUDES A CRITICAL DIMENSION LESS THAN ACHIEVABLE AT A RESOLUTION LIMIT OF LITHOGRAPHY
8,417,874	SP09-0053US	United States	01/21/2010	04/09/2013	A PROGRAMMABLE READ PREAMBLE
8,990,605	SP09-0054US	United States	09/10/2010	03/24/2015	APPARATUS AND METHOD FOR READ PREAMBLE DISABLE
8,140,778	SP09-0055US	United States	09/10/2010	03/20/2012	APPARATUS AND METHOD FOR DATA CAPTURE USING A READ PREAMBLE
13/566,187	SP09-0058US	United States	08/03/2012		POWER SAVINGS APPARATUS AND METHOD FOR MEMORY DEVICE USING DELAY LOCKED LOOP
8,625,353	SP09-0061US	United States	06/16/2011	01/07/2014	METHOD, APPARATUS, AND MANUFACTURE FOR STAGGERED START FOR MEMORY MODULE
14/099,340	SP09-0061US CON	United States	12/06/2013		METHOD AND APPARATUS FOR STAGGERED START-UP OF A PREDEFINED, RANDOM, OR DYNAMIC NUMBER OF FLASH MEMORY DEVICES
12/964,523	SP09-0072US	United States	12/09/2010		HIGH PERFORMANCE LOW PROFILE QFN/LGA

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PATENT OR APPL NO.	SPANSON REFERENCE NO.	COUNTRY	FILING DATE	ISSUE DATE	TITLE
13/046,433	SP09-0073US	United States	03/11/2011		MIXED WIRE BONDING PROFILE AND PAD-LAYOUT CONFIGURATIONS IN IC PACKAGING PROCESSES FOR HIGH-SPEED ELECTRONIC DEVICES
8,276,104	SP09-0075US	United States	12/09/2010	09/25/2012	STRESS REDUCTION ON VIAS AND YIELD IMPROVEMENT IN LAYOUT DESIGN THROUGH AUTO GENERATION OF VIA FILL
14/135,863	SP10-0003US	United States	12/20/2013		CT-NOR DIFFERENTIAL BITLINE SENSING ARCHITECTURE
8,818,802	SP10-0004US	United States	10/07/2009	08/26/2014	REAL-TIME DATA PATTERN ANALYSIS SYSTEM AND METHOD OF OPERATION THEREOF
14/258,076	SP10-0004US CON	United States	04/22/2014		DATA PATTERN ANALYSIS (as amended)
12/979,654	SP10-0005US	United States	12/28/2010		SYSTEM, METHOD AND APPARATUS FOR REDUCING PLASMA NOISE ON POWER PATH OF ELECTROSTATIC CHUCK
13/669,633	SP10-0006US	United States	11/06/2012		WEAR LEVELING IN FLASH MEMORY DEVICES WITH TRIM COMMANDS
8,461,053	SP10-0007US	United States	12/17/2010	06/11/2013	SELF-ALIGNED NAND FLASH SELECT-GATE WORDLINES FOR SPACER DOUBLE PATTERNING
8,874,253	SP10-0007US DIV	United States	05/14/2013	10/28/2014	SELF-ALIGNED NAND FLASH SELECT-GATE WORDLINES FOR SPACER DOUBLE PATTERNING
12/973,756	SP10-0008US	United States	12/20/2010		EDGE ROUNDED FIELD EFFECT TRANSISTORS AND METHODS OF MANUFACTURING
8,263,458	SP10-0009US	United States	12/20/2010	09/11/2012	PROCESS MARGIN ENGINEERING IN CHARGE TRAPPING FIELD EFFECT TRANSISTORS
8,652,907	SP10-0010US	United States	03/24/2011	02/18/2014	METHOD AND MANUFACTURE FOR HIGH VOLTAGE GATE OXIDE FORMATION AFTER SHALLOW TRENCH ISOLATION FORMATION
14/149,521	SP10-0010US DIV	United States	01/07/2014		INTEGRATING TRANSISTORS WITH DIFFERENT POLY-SILICON HEIGHTS ON THE SAME DIE
8,598,005	SP10-0011US	United States	07/18/2011	12/03/2013	METHOD AND MANUFACTURE FOR EMBEDDED FLASH TO ACHIEVE HIGH QUALITY SPACERS FOR CORE AND HIGH VOLTAGE DEVICES AND LOW TEMPERATURE SPACERS FOR HIGH PERFORMANCE LOGIC DEVICES
8,441,063	SP10-0012US	United States	12/30/2010	05/14/2013	MEMORY WITH EXTENDED CHARGE TRAPPING LAYER
8,809,206	SP10-0013US	United States	02/07/2011	08/19/2014	PATTERNED DUMMY WAFERS LOADING IN BATCH TYPE CVD
13/662,090	SP10-0016US	United States	10/26/2012		HRHP (HIGH-RELIABILITY HIGH-PERFORMANCE) NAND MEMORY CELL
8,791,007	SP11-0005US	United States	11/29/2011	07/29/2014	DEVICE HAVING MULTIPLE WIRE BONDS FOR A BOND AREA AND METHODS THEREOF
8,536,908	SP11-0012US	United States	09/29/2011	09/17/2013	SMART VCC TRIP POINT MEASUREMENT
8,981,823	SP11-0012US DIV	United States	08/21/2013	03/17/2015	APPARATUS AND METHOD FOR SMART VCC TRIP POINT DESIGN FOR TESTABILITY
6,780,708	SP11-0015TW	United States	03/05/2003	08/24/2004	METHOD OF FORMING CORE AND PERIPHERY GATES INCLUDING TWO CRITICAL MASKING STEPS TO FORM A HARD MASK IN A CORE REGION THAT INCLUDES A CRITICAL DIMENSION LESS THAN ACHIEVABLE AT A RESOLUTION LIMIT OF LITHOGRAPHY
8,966,151	SP11-0021US	United States	03/30/2012	02/24/2015	A LOW PIN COUNT HIGH SPEED PERIPHERAL INTERFACE
13/269,423	SP11-0025US	United States	10/07/2011		CONTROL OF SEMICONDUCTOR MANUFACTURING PROCESSES
13/540,373	SP11-0027PCT	United States	07/02/2012		APPARATUS AND METHOD FOR ROUNDED OXO FORMATION IN A FLASH MEMORY DEVICE
8,799,598	SP11-0027US	United States	02/17/2012	08/05/2014	REDUNDANCY LOADING EFFICIENCY
13/856,313	SP11-0028PCT	United States	04/03/2013		MODIFIED LOCAL SEGMENTED SELF-BOOSTING OF MEMORY CELL CHANNEL
8,806,071	SP11-0030PCT	United States	01/25/2012	08/12/2014	CONTINUOUS READ BURST SUPPORT AT HIGH CLOCK RATES
13/678,255	SP11-0034TW	United States	11/15/2012		CONTROL OF SEMICONDUCTOR PROCESSING TOOLS USING A HIERARCHICAL ORGANIZATION OF DATA
13/735,650	SP11-0038US	United States	01/07/2013		MULTI-CHIP PACKAGE ASSEMBLY WITH IMPROVED BOND WIRE SEPARATION
5,630,099	SP11-0039PCT	United States	12/10/1993	05/13/1997	NON-VOLATILE MEMORY ARRAY CONTROLLER CAPABLE OF CONTROLLING MEMORY BANKS HAVING VARIABLE BIT WIDTHS
13/725,260	SP11-0040US	United States	12/21/2012		HIDDEN MARKOV MODEL ACCELERATOR FOR SPEECH RECOGNITION
13/489,799	SP11-0042US	United States	06/06/2012		ACOUSTIC PROCESSING UNIT
61/577,595	SP11-0042US PROV	United States	12/19/2011		ACOUSTIC PROCESSING UNIT
13/856,614	SP11-0043US	United States	04/04/2013		ACOUSTIC PROCESSING UNIT WITH PARALLEL SPEAKER ADAPTATION
13/524,584	SP11-0044US	United States	06/15/2012		POWER-EFFICIENT VOICE ACTIVATION
61/589,113	SP12-0003US PROV	United States	01/20/2012		HW/SW ARCHITECTURE FOR SPEECH RECOGNITION
8,972,652	SP12-0004US	United States	11/19/2012	03/03/2015	LOW OVERHEAD FLASH BLOCK REFRESH
8,901,756	SP12-0012US	United States	12/21/2012	12/02/2014	CHIP POSITIONING IN MULTI-CHIP PACKAGE
14/532,039	SP12-0012US DIV	United States	11/04/2014		CHIP POSITIONING IN MULTI-CHIP PACKAGE
8,724,388	SP12-0013US	United States	04/02/2012	05/13/2014	ADAPTIVELY PROGRAMMING OR ERASING FLASH MEMORY BLOCKS
14/270,700	SP12-0015US	United States	05/06/2014		METHOD TO IMPROVE CHARGE TRAP FLASH MEMORY TOP OXIDE QUALITY
8,835,277	SP12-0016US	United States	11/19/2012	09/16/2014	METHOD TO IMPROVE CHARGE TRAP FLASH MEMORY CORE CELL PERFORMANCE AND RELIABILITY
14/486,421	SP12-0016US CON	United States	09/15/2014		METHOD TO IMPROVE CHARGE TRAP FLASH MEMORY CORE CELL PERFORMANCE AND RELIABILITY
13/545,469	SP12-0017US	United States	07/10/2012		LEAKAGE REDUCING WRITELINE CHARGE PROTECTION CIRCUIT
13/901,167	SP12-0019US	United States	05/23/2013		DIFFERENTIAL FILE SYSTEM FOR COMPUTER MEMORY
8,699,273	SP12-0021US	United States	07/31/2012	04/15/2014	BITLINE VOLTAGE REGULATION IN NON-VOLATILE MEMORY

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PATENT OR APPL NO.	SPANSION REFERENCE NO.	COUNTRY	FILING DATE	ISSUE DATE	TITLE
8,848,452	SP12-0022US	United States	04/04/2013	09/30/2014	ERASE VERIFICATION CIRCUITRY FOR SIMULTANEOUSLY AND CONSECUTIVELY VERIFYING A PLURALITY OF ODD AND EVEN-NUMBERED FLASH MEMORY TRANSISTORS AND METHOD THEREOF
13/761,217	SP12-0023US	United States	02/07/2013		IMPROVED NON-VOLATILE MEMORY DEVICE
14/095,150	SP12-0025US	United States	12/03/2013		REDUCTION OF CHARGING INDUCED DAMAGE IN PHOTOLITHOGRAPHY WET PROCESS
8,866,213	SP12-0026US	United States	01/30/2013	10/21/2014	NON-VOLATILE MEMORY WITH SILICIDED BIT LINE CONTACTS
14/501,536	SP12-0026US DIV	United States	09/30/2014		NON-VOLATILE MEMORY WITH SILICIDED BIT LINE CONTACTS
13/737,321	SP12-0027US	United States	01/09/2013		PROGRAMMABLE AND FLEXIBLE REFERENCE CELL SELECTION METHOD FOR MEMORY DEVICES
8,975,185	SP12-0028US	United States	11/26/2012	03/10/2015	METHOD FOR FORMING CHARGE TRAP SEPARATION IN A FLASH MEMORY SEMICONDUCTOR DEVICE
14/626,815	SP12-0028US DIV	United States	02/19/2015		FORMING CHARGE TRAP SEPARATION IN A FLASH MEMORY SEMICONDUCTOR DEVICE
13/685,222	SP12-0029US	United States	11/26/2012		FORMING A SUBSTANTIALLY UNIFORM WING HEIGHT AMONG ELEMENTS IN A CHARGE TRAP SEMICONDUCTOR DEVICE
13/725,415	SP12-0030US	United States	12/21/2012		MEMORY DEVICE INTERNAL DATA SEARCH
8,996,374	SP12-0031US	United States	11/06/2012	03/31/2015	SENONE SCORING FOR MULTIPLE INPUT STREAMS
8,760,930	SP12-0032PCT	United States	02/18/2013	06/24/2014	MEMORY DEVICE WITH SOURCE-SIDE SENSING
13/725,173	SP12-0033US	United States	12/21/2012		HYBRID HASHING SCHEME FOR ACTIVE HMMS IN SPEECH RECOGNITION
13/644,895	SP12-0034US	United States	10/04/2012		SUPPLY POWER DEPENDENT CONTROLLABLE WRITE THROUGHPUT FOR MEMORY APPLICATIONS
13/860,542	SP12-0035US	United States	04/11/2013		RESTORING ECC SYNDROME IN NON-VOLATILE MEMORY DEVICES
13/725,224	SP12-0036US	United States	12/21/2012		HISTOGRAM BASED PRE-PRUNING SCHEME FOR ACTIVE HMMS (as amended)
8,964,484	SP12-0037US	United States	12/28/2012	02/24/2015	DESIGN FOR TEST (DFT) READ SPEED THROUGH TRANSITION DETECTOR IN BUILT-IN SELF-TEST (BIST) SORT
13/735,156	SP12-0041US	United States	01/07/2013		BURIED HARD MASK FOR EMBEDDED SEMICONDUCTOR DEVICE PATTERNING
9,009,049	SP12-0042US	United States	11/06/2012	04/14/2015	RECOGNITION OF SPEECH WITH DIFFERENT ACCENTS
8,912,093	SP12-0043US	United States	04/18/2013	12/16/2014	DIE SEAL LAYOUT FOR VFTL DUAL DAMASCENE IN A SEMICONDUCTOR DEVICE
14/566,462	SP12-0043US DIV	United States	12/10/2014		DIE SEAL LAYOUT FOR VFTL DUAL DAMASCENE IN A SEMICONDUCTOR DEVICE
14/108,780	SP12-0044US	United States	12/17/2013		PROCESS FOR FORMING EDGE WORLDLINE IMPLANTS ADJACENT EDGE WORDLINES
13/682,826	SP12-0045US	United States	11/21/2012		INTER-LAYER INSULATOR FOR ELECTRON DEVICES
13/678,025	SP12-0046US	United States	11/15/2012		DISTRIBUTION OF GAS OVER A SEMICONDUCTOR WAFER IN BATCH PROCESSING (as amended)
13/790,979	SP12-0051US	United States	03/08/2013		PIPELINING IN A MEMORY
13/736,618	SP12-0054US	United States	01/08/2013		DISTRIBUTED SPEECH RECOGNITION SYSTEM
62/044,609	SP12-0055US PROV	United States	09/02/2014		PULSE DRIVEN SYNCHRONIZER
13/917,141	SP12-0060US	United States	06/13/2013		SCREENING FOR REFERENCE CELLS IN A MEMORY
13/867,618	SP12-0064US	United States	04/22/2013		CHARGE-TRAP NOR WITH SILICON-RICH NITRIDE AS A CHARGE TRAP LAYER
8,836,006	SP12-0067US	United States	12/14/2012	09/16/2014	INTEGRATED CIRCUITS WITH NON-VOLATILE MEMORY AND METHODS FOR MANUFACTURE
14/484,417	SP12-0067US DIV	United States	09/12/2014		INTEGRATED CIRCUITS WITH NON-VOLATILE MEMORY AND METHODS FOR MANUFACTURE
8,822,289	SP12-0068US	United States	12/14/2012	09/02/2014	HIGH VOLTAGE GATE FORMATION
14/340,054	SP12-0068US DIV	United States	07/24/2014		HIGH VOLTAGE GATE FORMATION
13/715,577	SP12-0069US	United States	12/14/2012		MEMORY FIRST PROCESS FLOW AND DEVICE
13/715,582	SP12-0070US	United States	12/14/2012		CHARGE TRAPPING SPLIT GATE EMBEDDED FLASH MEMORY AND ASSOCIATED METHODS
13/715,181	SP12-0072US	United States	12/14/2012		THREE DIMENSIONAL CAPACITOR
13/715,673	SP12-0073US	United States	12/14/2012		USE DISPOSABLE GATE CAP TO FORM TRANSISTORS, AND SPLIT GATE CHARGE TRAPPING MEMORY CELLS
8,816,438	SP12-0074US	United States	12/14/2012	08/26/2014	PROCESS CHARGING PROTECTION FOR SPLIT GATE CHARGE TRAPPING FLASH
13/715,185	SP12-0075US	United States	12/14/2012		CHARGE TRAPPING SPLIT GATE DEVICE AND METHOD OF FABRICATING SAME
13/715,729	SP12-0076US	United States	12/14/2012		CHARGE TRAPPING DEVICE WITH IMPROVED SELECT GATE TO MEMORY GATE ISOLATION
13/715,828	SP12-0076US	United States	12/14/2012		MEMORY GATE LANDING PAD MADE FROM DUMMY FEATURE
14/056,577	SP12-0077US	United States	10/17/2013		THREE-DIMENSIONAL CHARGE TRAPPING NAND CELL WITH DISCRETE CHARGE TRAPPING FILM
13/756,134	SP12-0079US	United States	01/31/2013		MANUFACTURING OF FET DEVICES HAVING LIGHTLY DOPED DRAIN AND SOURCE REGIONS
13/856,671	SP12-0081US	United States	04/04/2013		AUTHENTICATION FOR RECOGNITION SYSTEMS
14/073,031	SP12-0084US	United States	11/06/2013		METHODS, CIRCUITS, SYSTEMS AND COMPUTER EXECUTABLE INSTRUCTION SETS FOR PROVIDING ERROR CORRECTION OF STORED DATA AND DATA STORAGE DEVICES UTILIZING SAME
6,205,057	SP12-0086US	United States	02/15/2000	03/20/2001	SYSTEM AND METHOD FOR DETECTING FLASH MEMORY THRESHOLD VOLTAGES
14/056,547	SP13-0003US	United States	10/17/2013		MULTIPLE PHASE-SHIFT PHOTOMASK AND SEMICONDUCTOR MANUFACTURING METHOD
14/054,880	SP13-0004US	United States	10/16/2013		MEMORY PROGRAM UPON SYSTEM FAILURE
14/051,828	SP13-0006US	United States	10/11/2013		SPACER FORMATION WITH STRAIGHT SIDEWALL
14/143,317	SP13-0007US	United States	12/30/2013		FORMATION OF GATE SIDEWALL STRUCTURE
14/136,358	SP13-0008US	United States	12/20/2013		GATE FORMATION MEMORY BY PLANARIZATION

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13/913,909	SP13-0009US	United States	06/10/2013		PROGRAMMABLE LATENCY COUNT TO ACHIEVE HIGHER MEMORY BANDWIDTH
14/054,265	SP13-0010US	United States	10/15/2013		METHOD FOR PROVIDING READ DATA FLOW CONTROL OR ERROR REPORTING USING A READ DATA STROBE
14/051,859	SP13-0012US	United States	10/11/2013		ION IMPLANTATION-ASSISTED ETCH-BACK PROCESS FOR IMPROVING SPACER SHAPE AND SPACER WIDTH CONTROL
14/054,884	SP13-0013US	United States	10/16/2013		HIDDEN MARKOV MODEL PROCESSING ENGINE
8,995,198	SP13-0014US	United States	10/10/2013	03/31/2015	MULTI-PASS SOFT PROGRAMMING
14/048,527	SP13-0015US	United States	10/08/2013		BURIED TRENCH ISOLATION IN INTEGRATED CIRCUITS
14/054,312	SP13-0016US	United States	10/15/2013		MANAGED-NAND WITH EMBEDDED RANDOM-ACCESS NON-VOLATILE MEMORY
14/093,703	SP13-0017US	United States	12/02/2013		GENERATION OF WAKE-UP WORDS
14/048,863	SP13-0019US	United States	10/08/2013		SELF-ALIGNED TRENCH ISOLATION IN INTEGRATED CIRCUITS
14/092,554	SP13-0025US	United States	11/27/2013		AUTO RESUME OF IRREGULAR ERASE STOPPAGE OF A MEMORY SECTOR
14/207,303	SP13-0029US	United States	03/12/2014		BURIED TRENCH ISOLATION IN INTEGRATED CIRCUITS
14/284,727	SP13-0030US	United States	05/22/2014		OFFSET COMPENSATED HIGH SPEED LOW POWER SENSE AMPLIFIER
14/132,422	SP13-0031US	United States	12/18/2013		INCREASING LITHOGRAPHIC DEPTH-OF-FOCUS WINDOW USING WAFER TOPOGRAPHY
14/100,673	SP13-0032US	United States	12/09/2013		SCATTERING BAR OPTIMIZATION APPARATUS AND METHOD
14/188,048	SP13-0036US	United States	02/24/2014		MEMORY SUBSYSTEM WITH WRAPPED-TO-CONTINUOUS READ
62/040,583	SP13-0040US PROV	United States	08/22/2014		PARTIAL-PARTIAL-HEIGHT GATE REPLACEMENT FOR SEMICONDUCTOR DEVICE FABRICATION
14/284,632	SP13-0041US	United States	05/22/2014		METHODS, CIRCUITS, DEVICES, AND SYSTEMS FOR SENSING AN NVN CELL
14/284,812	SP13-0042US	United States	05/22/2014		HV STITCHING PROTECTED CURRENT CONTROLLED LEVEL SHIFTER
14/527,797	SP13-0045US	United States	10/30/2014		CHARGE-TRAPPING MEMORY DEVICE
14/199,837	SP13-0046US	United States	03/06/2014		MEMORY ACCESS BASES ON ERASE CYCLE TIME
14/278,114	SP13-0048US	United States	05/15/2014		TILTED IMPLANT FOR POLY RESISTORS
14/319,079	SP13-0049US	United States	06/30/2014		BOOTING AN APPLICATION FROM MULTIPLE MEMORIES
14/518,560	SP13-0050US	United States	10/20/2014		OVERLAID ERASE BLOCK MAPPING
14/450,727	SP14-0001US	United States	08/04/2014		SPLIT-GATE SEMICONDUCTOR DEVICE WITH L-SHAPED GATE
14/513,361	SP14-0005US	United States	10/14/2014		SYSTEM-ON-CHIP VERIFICATION
14/562,789	SP14-0006US	United States	12/08/2014		METHODS, CIRCUITS, DEVICES, SYSTEMS AND MACHINE EXECUTABLE CODE FOR READING FROM A NON-VOLATILE MEMORY ARRAY
5,376,573	TT0313JP	United States	12/10/1993	12/27/1994	FLASH EPROM DEVICE UTILIZING A SINGLE MASKING STEP FOR ETCHING AND IMPLANTING SOURCE REGIONS WITHIN THE EPROM CORE AND REDUNDANCY AREAS
5,801,076	TT0347JP	United States	02/21/1995	09/01/1998	METHOD OF MAKING NON-VOLATILE MEMORY DEVICE HAVING A FLOATING GATE WITH ENHANCED CHARGE RETENTION
5,384,272	TT0347US	United States	06/28/1994	01/24/1995	METHOD FOR MANUFACTURING A NON-VOLATILE, VIRTUAL GROUND MEMORY ELEMENT
5,581,502	TT0497KR	United States	05/02/1995	12/03/1996	METHOD FOR READING A NON-VOLATILE MEMORY ARRAY
5,805,013	TT0497US	United States	03/12/1997	09/08/1998	A NON-VOLATILE MEMORY DEVICES HAVING A FLOATING GATE WITH ENHANCED CHARGE RETENTION
5,546,340	TT0607KR	United States	06/13/1995	08/13/1996	NON-VOLATILE MEMORY ARRAY WITH OVER-ERASE CORRECTION
5,896,393	TT0694US	United States	05/23/1996	04/20/1999	SIMPLIFIED FILE MANAGEMENT SCHEME FOR FLASH MEMORY
5,811,334	TT0866US	United States	12/29/1995	09/22/1998	WAFER CLEANING PROCEDURE USEFUL IN MANUFACTURE OF A NON-VOLATILE MEMORY DEVICE
09/063,114	TT0867US	United States	04/20/1998		WAFER CLEANING PROCEDURE USEFUL IN MANUFACTURE OF A NON-VOLATILE MEMORY DEVICE
5,774,395	TT0867US DIV	United States	11/27/1996	06/30/1998	AN ELECTRICALLY ERASABLE REFERENCE CELL FOR ACCURATELY DETERMINING THRESHOLD VOLTAGE OF A NON-VOLATILE MEMORY AT A PLURALITY OF THRESHOLD VOLTAGE LEVELS
6,823,435	TT1328US	United States	11/20/1997	11/23/2004	A NON-VOLATILE MEMORY SYSTEM HAVING A PROGRAMMABLY SELECTABLE BOOT CODE SECTION SIZE
7,206,914	TT1393US	United States	10/19/2004	04/17/2007	A NON-VOLATILE MEMORY SYSTEM HAVING A PROGRAMMABLY SELECTABLE BOOT CODE SECTION SIZE
5,999,476	TT1393US CON	United States	11/21/1997	12/07/1999	BIOS MEMORY AND MULTIMEDIA DATA STORAGE COMBINATION
5,717,632	TT1396US	United States	11/27/1996	02/10/1998	APPARATUS AND METHOD FOR MULTIPLE-LEVEL STORAGE IN NON-VOLATILE MEMORIES
5,883,841	TT1514US	United States	09/26/1997	03/16/1999	SELECTIVE BIT LINE RECOVERY IN A MEMORY ARRAY
5,883,826	TT1997US	United States	09/26/1997	03/16/1999	MEMORY BLOCK SELECT USING MULTIPLE WORD LINES TO ADDRESS A SINGLE MEMORY CELL ROW
5,888,870	TT2013US	United States	10/22/1997	03/30/1999	MEMORY CELL FABRICATION EMPLOYING AN INTERPOLY GATE DIELECTRIC ARRANGED UPON A POLISHED FLOATING GATE
6,048,766	TT2035US	United States	10/14/1998	04/11/2000	FLASH MEMORY DEVICE HAVING HIGH PERMITTIVITY STACKED DIELECTRIC AND FABRICATION THEREOF
6,417,539	TT2307US	United States	08/04/1998	07/09/2002	HIGH DENSITY MEMORY CELL ASSEMBLY AND METHODS
6,480,929	TT2360US	United States	10/31/1998	11/12/2002	PSEUDO- CONCURRENCY BETWEEN A VOLATILE MEMORY AND A NON-VOLITILE MEMORY ON A SAME DATA BUS
6,225,646	TT2492US	United States	01/14/2000	05/01/2001	INTEGRATED CIRCUIT INCORPORATING A MEMORY CELL AND A TRANSISTOR ELEVATED ABOVE AN INSULATING BASE
6,790,752	TT3073US	United States	02/05/2003	09/14/2004	METHODS OF CONTROLLING Vss IMPLANTS ON MEMORY DEVICES, AND SYSTEM FOR PERFORMING SAME
7,197,657	TT5267US	United States	04/03/2003	03/27/2007	BMC-HOSTED REAL-TIME CLOCK AND NON-VOLATILE RAM REPLACEMENT
10/633,797	TT5422US	United States	08/04/2003		METHODS OF FORMING METAL SILICIDE REGIONS, AND SYSTEMS FOR PERFORMING SAME

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PATENT OR APPL NO.	SPANSON REFERENCE NO.	COUNTRY	FILING DATE	ISSUE DATE	TITLE
7,816,203	TT5548US	United States	03/16/2006	10/19/2010	METHOD FOR FABRICATING A SEMICONDUCTOR DEVICE
6,670,616	TT5847US	United States	03/22/2002	12/30/2003	ULTRAVIOLET-RAY IRRADIATION APPARATUS
PCT/US2000/27903	AF01002PCT	WIPO	10/07/2000		LOW VOLTAGE READ CASCODE FOR 2V/3V AND DIFFERENT BANK COMBINATIONS WITHOUT METAL OPTIONS FOR A SIMULTANEOUS OPERATION FLASH MEMORY DEVICE
PCT/US2001/024109	AF01073WO	WIPO	07/31/2001		WORD LINE DECODING ARCHITECTURE IN A FLASH MEMORY
PCT/US01/24024	AF01081US	WIPO	07/30/2001		BURST READ WORDLINE BOOSTING
PCT/US2001/018081	AF01085WO	WIPO	06/04/2001		METHOD TO REDUCE CAPACITIVE LOADING IN FLASH MEMORY X-DECODER FOR ACCURATE VOLTAGE CONTROL AT WORDLINES AND SELECT LINES
PCT/US2000/026814	AF01086WO	WIPO	09/29/2000		WORD LINE TRACKING IN WHOLE CHIP
PCT/US2001/43543	AF01090PC	WIPO	11/14/2001		I/O PARTITIONING AND METHODOLOGY TO REDUCE BAND-TO-BAND TUNNELING CURRENT DURING ERASE
PCT/US2002/031331	AF01091PCT	WIPO	09/30/2002		DRAIN SIDE SENSING SCHEME FOR VIRTUAL GROUND FLASH EPROM ARRAY WITH ADJACENT BIT CHARGE AND HOLD
PCT/US2001/048734	AF01096PCT	WIPO	12/12/2001		SOFT PROGRAM AND SOFT PROGRAM VERIFY OF THE CORE CELLS IN FLASH MEMORY ARRAY
PCT/US2003/006589	AF01116WO	WIPO	03/03/2003		METHOD FOR MULTI-BIT FLASH READS USING DUAL DYNAMIC REFERENCES
PCT/US2002/39781	AF01124WO	WIPO	12/11/2002		MONOS DEVICE HAVING BURIED METAL SILICIDE BIT LINE
PCT/US2003/001855	AF01132WO	WIPO	01/21/2003		HARD MASK PROCESS FOR MEMORY DEVICE WITHOUT BITLINE SHORTS
PCT/US2004/00502	AF01186PCT	WIPO	01/08/2004		CHARGE-TRAPPING MEMORY ARRAYS RESISTANT TO DAMAGE FROM CONTACT HOLE FORMATION
PCT/US2004/011354	AF01209PCT	WIPO	04/13/2004		METHOD FOR REDUCING SHORT CHANNEL EFFECTS IN MEMORY CELLS AND RELATED STRUCTURE
PCT/US2006/026045	AF01293PCT	WIPO	06/30/2006		PREAMORPHIZATION TO MINIMIZE VOID FORMATION
PCT/JP2004/010493	AF01349PCT	WIPO	07/23/2004		FILE MANAGEMENT FOR RECOVERING FROM SUDDEN POWER OFF
PCT/US2005/023632	AF01361PCT	WIPO	07/06/2004		ERASE DISTRIBUTION IMPROVEMENT WITH ENHANCED DUMMY WORDLINES IN FLASH MEMORY
PCT/JP2004/008998	AF01371WO	WIPO	06/25/2004		SEMICONDUCTOR DEVICE AND SOURCE VOLTAGE CONTROL METHOD
PCT/JP2004/001938	AF01372	WIPO	02/19/2004		CURRENT-VOLTAGE CONVERTER CIRCUIT AND CONTROL METHOD THEREOF
PCT/US2005/004539	AF01386PCT	WIPO	11/02/2005		ERASE ALGORITHM FOR MULTI-LEVEL BIT FLASH MEMORY
PCT/JP2004/010914	AF01403US	WIPO	07/30/2004		SEMICONDUCTOR DEVICE AND WRITING METHOD
PCT/JP2004/10844	AF01412WO	WIPO	07/29/2004		METHOD FOR SETTING INFORMATION IN NON-VOLATILE STORAGE DEVICE, NON-VOLATILE STORAGE DEVICE AND SYSTEM USING THE SAME
PCT/JP2004/017808	AF01439WO	WIPO	11/30/2004		NON-VOLATILE SELECT GATE IN NAND FLASH MEMORY
PCT/JP2004/010837	AF01441CN	WIPO	07/29/2004		METHODH FOR INITIALIZING NON-VOLATILE STORAGE DEVICE, AND NOT-VOLATILE STORAGE DEVICE
PCT/US2005/004552	AF01453PCT	WIPO	02/11/2005		METHOD AND SYSTEMS FOR HIGH WRITE PERFORMANCE IN MULTI-BIT FLASH MEMORY DEVICES
PCT/JP2004/016118	AF01472WO	WIPO	10/29/2004		DRAIN VOLTAGE REGULATION
PCT/US2005/038379	AF01578WO	WIPO	10/26/2005		SYSTEM AND METHOD FOR PROTECTING SEMICONDUCTOR DEVICES
PCT/US2006/028506	AF01602PCT	WIPO	07/21/2006		SYSTEM AND METHOD FOR IMPROVING MESA WIDTH IN A SEMICONDUCTOR DEVICE
PCT/JP2004/015833	AF01645WO	WIPO	10/26/2004		NON-VOLATILE MEMORY DEVICE
PCT/US2006/034990	AF01673PCT	WIPO	09/07/2006		FLASH MEMORY PROGRAMMING USING AN INDICATION BIT TO INTERPRET STATE
PCT/JP2005/002891	AF01721	WIPO	02/23/2005		SEMICONDUCTOR DEVICE AND CONTROL METHOD THEREFOR
PCT/JP2005/001334	AF01725WO	WIPO	01/31/2005		REFERENCE CELL TRIMMING IN BIST
PCT/JP2005/023011	AF01770PCT	WIPO	12/15/2005		A NON VOLATILE MEMORY DEVICE AND ITS CONTROL METHOD
PCT/JP2005/015416	AF01785	WIPO	08/25/2005		MEMORY DEVICE AND CONTROL METHOD OF MEMORY DEVICE
PCT/JP2005/012033	AF01789	WIPO	06/30/2005		NON-VOLATILE MEMORY DEVICE AND CONTROL METHOD OF NON-VOLATILE MEMORY DEVICE
PCT/US2007/021857	AF01836PCT	WIPO	10/12/2007		SEMICONDUCTOR DEVICE AND METHOD OF CONTROLLING THE SAME
PCT/JP2005/018322	AF01840PCT	WIPO	10/04/2005		SEMICONDUCTOR DEVICE AND METHOD FOR CONTROLLING SAME
PCT/US2007/026426	AF01869PCT	WIPO	12/27/2007		SEMICONDUCTOR DEVICE AND METHOD FOR MANUFACTURING THE SAME
PCT/JP2005/022572	AF01870	WIPO	12/08/2005		REAL-TIME EQUIPMENT CONTROL TO MAINTAIN YIELD
PCT/US2007/087831	AF01889PCT	WIPO	12/17/2007		MEMORY AND DEVICE AND PASSWORD STORING METHOD THEREOF
PCT/US2007/026472	AF01890PCT	WIPO	12/28/2007		SEMICONDUCTOR DEVICE AND METHOD OF MANUFACTURING THE SAME
PCT/US2007/026414	AF01897PCT	WIPO	12/28/2007		SEMICONDUCTOR DEVICE AND METHOD OF CONTROLLING THE SAME
PCT/US2007/026428	AF01898PCT	WIPO	12/27/2007		SEMICONDUCTOR DEVICE AND METHOD FOR MANUFACTURING THE SAME
PCT/US2007/026473	AF01906PCT	WIPO	12/28/2007		SEMICONDUCTOR DEVICE AND MWTHOD FOR MANUFACTURING THE SAME
PCT/US2007/008533	AF01907PCT	WIPO	04/05/2007		MULTI MEDIA CARD WITH HIGH STORAGE CAPACITY
PCT/JP2005/022646	AF01908WO	WIPO	12/09/2005		SEMICONDUCTOR DEVICE AND ITS MANUFACTURING METHOD
PCT/US2007/019710	AF01938PCT	WIPO	09/10/2007		DAMASCENE METAL-INSULATOR-METAL (MIM) DEVICE WITH IMPROVED SCALEABILITY
PCT/US2007/086398	AF01944PCT	WIPO	12/04/2007		METHODS OF PROGARMING AND ERASING RESISTIVE MEMORY DEVICES
PCT/US2007/008568	AF01954PCT	WIPO	04/05/2007		MEMORY CELL ARRAY WITH LOW RESISTANCE COMMON SOURCE AND HIGH CURRENT DRIVABILITY

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PATENT OR APPL NO.	SPANSON REFERENCE NO.	COUNTRY	FILING DATE	ISSUE DATE	TITLE
PCT/US2007/086286	AF01965PCT	WIPO	12/03/2007		BARRIER REGION FOR MEMORY DEVICES
PCT/US2007/086329	AF01989PCT	WIPO	12/04/2007		MEMORY DEVICE PROTECTION LAYER
PCT/US2007/016620	AF02037PCT	WIPO	07/24/2007		INTEGRATED CIRCUIT MEMORY SYSTEM EMPLOYING SILICON RICH LAYERS
PCT/US2007/016250	AF02041PCT	WIPO	07/17/2007		MEMORY CELL SYSTEM WITH CHARGE TRAP
PCT/US2007/016251	AF02044PCT	WIPO	07/17/2007		MEMORY CELL SYSTEM WITH MULTIPLE NITRIDE LAYERS
PCT/US2007/018761	AF02067PCT	WIPO	08/23/2007		MEMORY ERASE MANAGEMENT SYSTEM
PCT/US2007/012186	AF02071PCT	WIPO	05/21/2007		MEMORY SYSTEM WITH SWITCH ELEMENT
PCT/JP2006/314151	AF02079PCT	WIPO	11/28/2008		A NONVOLATILE MEMORY DEVICE AND ITS ERASE CONTROL METHOD
PCT/JP2006/303702	AF02083	WIPO	02/28/2006		MIRROR BIT MEMORY DEVICE HAVING BOTH PSG SPACER AND SILICIDE LAYER ON THE BIT LINE
PCT/US2007/087769	AF02117PCT	WIPO	12/17/2007		A SEMICONDUCTOR MEMORY COPMPRISING DUAL CHARGE STORAGE NODES AND METHODS FOR ITS FABRICATION
PCT/US2007/088448	AF02131PCT	WIPO	12/20/2007		FLASH MEMORY DEVICES AND METHODS FOR FABRICATING THE SAME
PCT/US2007/008576	AF02136PCT	WIPO	04/05/2007		REDUCTION OF LEAKAGE CURRENT AND PROGRAM DISTURBS IN FLASH MEMORY DEVICES
PCT/US2007/088206	AF02139PCT	WIPO	12/19/2007		ERASING FLASH MEMORY USING ADAPTIVE DRAIN AND/OR GATE BIAS
PCT/US2007/087782	AF02141PCT	WIPO	12/17/2007		DUAL-BIT MEMORY DEVICE HAVING TRENCH ISOLATION MATERIAL DISPOSED NEAR BIT LINE CONTACT AREAS
PCT/US2008/007557	AF02150PCT	WIPO	06/16/2008		ERROR CORRECTION SCHEME FOR NON-VOLATILE MEMORY
PCT/JP2000/009609	AF02188WO	WIPO	12/21/2000		NONVOLATILE SEMICONDUCTOR MEMORY DEVICE
PCT/JP2003/016156	AF02230PCT	WIPO	12/17/2003		SEMICONDUCTOR DEVICE AND TEST METHOD
PCT/JP2006/320696	AF02243PCT	WIPO	10/18/2006		A VOLTAGE DETECTOR CIRCUIT
PCT/US2008/063188	AF02246PCT	WIPO	05/09/2008		COMPENSATION METHOD TO ARCHIEVE UNIFORM PROGRAMMING SPEED OF FLASH MEMORY DEVICES
PCT/US2008/004667	AF02248PCT	WIPO	05/10/2008		FLASH MEMORY CELL WITH A FLAIR GATE
PCT/US2007/085837	AF02267PCT	WIPO	11/29/2007		MULTI-LEVEL OPERATION IN DUAL ELEMENT CELLS USING A SUPPLEMENTAL PROGRAMMING LEVEL
PCT/US2007/018730	AF02272PCT	WIPO	08/23/2007		METHOD OF SELECTING OPERATING CHARACTERISTICS OF A RESISTIVE MEMORY DEVICE
PCT/US2007/018760	AF02282PCT	WIPO	09/01/2006		MULTIPLE COMUNNICATION CHANNELS ON MMC OR SD CMD LINE
PCT/US2007/086647	AF02286PCT	WIPO	12/06/2007		METHODS AND SYSTEMS FOR MEMORY DEVICES
PCT/US2007/018771	AF02301PCT	WIPO	08/23/2007		VIRTUAL MEMORY CARD CONTROLLER
PCT/US2007/023300	AF02315PCT	WIPO	11/05/2007		CONTROLLING A SEMICONDUCTOR DEVICE
PCT/US2007/083826	AF02329PCT	WIPO	11/06/2007		MULTIPLE STAKEHOLDER SECURE MEMORY PARTITIONING AND ACCESS CONTROL
PCT/US2007/083830	AF02335PCT	WIPO	11/06/2007		SECURE CO-PROCESSING MEMORY CONTROLLER INTEGRATED INTO AN EMBEDDED MEMORY SUBSYSTEM
PCT/US2007/083828	AF02337PCT	WIPO	11/06/2007		USING SHARED MEMORY WITH AN EXECUTE-IN-PLACE PROCESSOR AND A CO-PROCESSOR
PCT/US2007/086780	AF02436PCT	WIPO	12/07/2007		RESISTANCE CHANGING MEMORY CELL ARCHITECTURE
PCT/US2008/063186	AF02453PCT	WIPO	05/09/2008		SELF ALIGNED NARROW STORAGE ELEMENTS FOR ADVANCED MEMORY DEVICE
PCT/US2008/008864	AF02465PCT	WIPO	07/21/2008		TERMINATE CYCLE FOR BURST WRITE OPERATION
PCT/US2008/057138	AF02477PCT	WIPO	03/14/2008		DIVISION-BASED SENSING AND PARTITIONING OF ELECTRONIC MEMORY
PCT/US2008/087829	AF02503PCT	WIPO	12/19/2008		CONTROLLING AC DISTURBANCE WHILE PROGRAMMING
PCT/US2008/74291	AF02517PCT	WIPO	08/26/2008		SACRIFICIAL NITRIDE AND GATE REPLACEMENT
PCT/US2008/074292	AF02518PCT	WIPO	08/26/2008		GATE REPLACEMENT WITH TOP OXIDE REGROWTH FOR THE TOP OXIDE IMPROVEMENT
PCT/US2008/071544	AF02527PCT	WIPO	07/30/2008		ORO AND ORPRO WITH BITLINE TRENCH TO SUPPRESS TRANSPORT PROGRAM DISTURB
PCT/US2008/80636	AF02531PCT	WIPO	10/21/2008		SELECTIVE SILICIDE FORMATION USING RESIST ETCHBACK
PCT/US2008/072161	AF02559PCT	WIPO	08/04/2008		THE MANUFACTURING METHOD FOR A CHIP WHICH HAS A THROUGH-HOLE ELECTRODE
PCT/US2008/063390	AF02560PCT	WIPO	05/12/2008		DIE ATTACHMENT, DIE STACKING, AND WIRE EMBEDDING USING FILM
PCT/US2008/85443	AF02562PCT	WIPO	12/03/2008		FORMING METAL-SEMICONDUCTOR FILMS HAVING DIFFERENT THICKNESSES WITHIN DIFFERENT REGIONS OF AN ELECTRONIC DEVICE
PCT/US2008/079969	AF02563PCT	WIPO	10/15/2008		NON-VOLATILE MEMORY ARRAY PARTITIONING ARCHITECTURE AND METHOD TO UTILIZE SINGLE LEVEL CELLS AND MULTI-LEVEL CELLS WITHIN THE SAME MEMORY
PCT/US2008/080317	AF02566PCT	WIPO	10/17/2008		TAMPER REACTIVE MEMORY DEVICE TO SECURE DATA FROM TAMPER ATTACKS
PCT/US2008/075731	AF02572PCT	WIPO	09/09/2008		SECURE MODULAR EXPONENTIATION BY RANDOMIZATION OF EXPONENT SCANNING
PCT/US2008/013441	AF02584PCT	WIPO	12/04/2008		MIRRORBIT PROGRAM / REFRESH ALGORITHM
PCT/US2000/001262	AF02593PCT	WIPO	01/18/2000		SHARED MEMORY APPARATUS AND METHOD FOR MULTUPROCESSOR SYSTEMS
PCT/US2009/000126	AF02646PCT	WIPO	01/08/2009		SYSTEM CONTROL METHOD OF MODE REGISTER SET OF DRAM IN MCP
PCT/US2008/88208	AF02681PCT	WIPO	12/23/2008		ARRAYED NEUTRON DETECTOR WITH MULTI SHIELDING ALLOWING FOR DISCRIMINATION BETWEEN RADIATION TYPES
PCT/US2008/004833	AF02691PCT	WIPO	04/14/2008		SELF-ALIGNED PATTERNING METHOD BY USING NON-CONFORMAL FILM AND ETCH BACK FOR FLASH MEMORY AND OTHER SEMICONDUCTOR APPLICATIONS
PCT/US2009/30182	AF02764PCT	WIPO	01/06/2009		NON-VOLATILE MEMORY DEVICE AND METHODS OF USING
PCT/US2008/074417	AF02813PCT	WIPO	08/27/2008		MIRROR BIT MEMORY DEVICE HAVING TOP INSULATING FILM WITH HIGH ETCHING SELECTIVITY TO GATE OXIDE FILM

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PCT/US2008/087800	AF02814PCT	WIPO	12/19/2008		EXTENDING FLASH MEMORY DATA RETENTION VIA REWRITE REFRESH
PCT/US2008/087763	AF02823PCT	WIPO	12/19/2008		ELECTRONIC DEVICE INCLUDING A SILICON NITRIDE LAYER AND A PROCESS OF FORMING THE SAME
PCT/US2008/084046	AF02824PCT	WIPO	11/19/2008		A MEMORY BUFFERING SYSTEM THAT IMPROVES READ/WRITE PERFORMANCE AND PROVIDES LOW LATENCY FOR MOBILE SYSTEMS
PCT/US2008/077762	AF02827PCT	WIPO	09/25/2008		OPO MIRROR BIT MEMORY DEVICE HAVING SHALLOW TRENCH ISOLATION
PCT/US2008/011628	AF02832PCT	WIPO	10/08/2008		FABRICATING METHOD OF OPO MIRROR BIT MEMORY DEVICE HAVING SHALLOW TRENCH ISOLATION
PCT/US2008/013532	AF02839PCT	WIPO	12/09/2008		CONTROL METHOD OF GBL AND LBL IN A READ
PCT/US2008/79993	AF02850PCT	WIPO	10/15/2008		CONTROLLED RAMP RATES FOR METAL BITLINES DURING WRITE OPERATIONS FROM HIGH VOLTAGE DRIVER FOR MEMORY APPLICATIONS
PCT/US2008/86913	AF02862PCT	WIPO	12/17/2007		HETERO-STRUCTURE VARIABLE SILICON RICHNESS NITRIDE FOR MLC FLASH MEMORY DEVICE
PCT/US2008/073348	AF02865US PCT	WIPO	09/09/2008		PROCESS OF FORMING AN ELECTRONIC DEVICE INCLUDING DEPOSITING LAYERS WITHIN OPENINGS
PCT/US2008/013185	AF02873PCT	WIPO	11/26/2008		A METHOD FOR SETTING PARAMETERS AND DETERMINING LATENCY IN A CHAINED DEVICE SYSTEM
PCT/US2008/13194	AF02874PCT	WIPO	11/25/2008		A METHOD FOR SETTING PARAMETERS AND DETERMINING LATENCY IN A CHAINED DEVICE SYSTEM
PCT/US2008/013188	AF02875PCT	WIPO	11/25/2008		A METHOD FOR SETTING PARAMETERS AND DETERMINING LATENCY IN A CHAINED DEVICE SYSTEM
PCT/US2008/013186	AF02876PCT	WIPO	11/25/2008		A METHOD FOR SETTING PARAMETERS AND DETERMINING LATENCY IN A CHAINED DEVICE SYSTEM
PCT/US2008/086436	AF02883PCT	WIPO	12/11/2008		REFERENCE-FREE SAMPLED SENSING
PCT/US2008/014115	AF02892PCT	WIPO	12/30/2008		TABLE LOOKUP VOLTAGE COMPENSATION FOR MEMORY CELLS
PCT/US2008/088658	AF02907PCT	WIPO	12/31/2008		METHOD FOR PROTECTING DATA AGAINST DIFFERENTIAL FAULT ANALYSIS INVOLVED IN RSA USING THE CHINESE REMAINDER THEOREM
PCT/US2008/013227	AF02908PCT	WIPO	11/26/2008		SONOS-NAND DEVICE HAVING COMPLETELY SEPARATED STORAGE REGIONS
PCT/US2014/019105	AF03137PCT	WIPO	02/27/2014		NON-VOLATILE MEMORY BASED SYSTEM RAM
PCT/US2011/047279	AF03209US PCT	WIPO	08/10/2011		STITCH BUMP STACKING DESIGN FOR OVERALL PACKAGE SIZE REDUCTION FOR MULTIPLE STACK
PCT/US2011/042396	AF03219PCT	WIPO	06/29/2011		METHOD AND SYSTEM FOR THINK MULTI CHIP STACK PACKAGE WITH FILM ON WIRE AND COPPER WIRE
PCT/US2009/059862	AF04024	WIPO	10/07/2009		REAL-TIME DATA PATTERN ANALYSIS SYSTEM AND METHOD OF OPERATION THEREOF
PCT/US2005/037985	AF04031CN	WIPO	10/19/2005		Non-volatile memory and pseudo-sram based on resonant tunneling concept
PCT/US2012/070329	AF04035PCT	WIPO	12/18/2012		ACOUSTIC PROCESSING UNIT INTERFACE
PCT/US2012/070332	AF04036PCT	WIPO	12/18/2012		ARITHMETIC LOGIC UNIT ARCHITECTURE
PCT/US1996/17412	B192PCT	WIPO	11/01/1996		SOURCELESS FLOATING GATE MEMORY DEVICE AND METHOD OF STORING DATA
PCT/US1998/02330	C144496PCT	WIPO	02/05/1998		HIGH VOLTAGE NMOS PASS GATE FOR INTEGRATED CIRCUIT WITH HIGH VOLTAGE GENERATOR AND FLASH NON-VOLATILE MEMORY DEVICE HAVING THE PASS GATE
PCT/US1998/026850	C369297WO	WIPO	12/18/1998		BIASING METHOD AND STRUCTURE FOR REDUCING BAND-TO-BAND AND/OR AVALANCHE CURRENTS DURING THE ERASE OF FLASH MEMORY DEVICES
PCT/US1998/026848	C627497WO	WIPO	12/18/1998		FORMATION OF CONTROL AND FLOATING GATES OF SEMICONDUCTOR NON-VOLATILE MEMORIES
PCT/US2000/24271	C656497PCT	WIPO	08/31/2000		TUNGSTEN GATE MOS TRANSISTOR AND MEMORY CELL AND METHOD OF MAKING SAME
PCT/US2000/18019	C695497PCT	WIPO	06/29/2000		THIN FLOATING GATE AND CONDUCTIVE SELECT GATE IN SITU
PCT/US1999/21737	C715497	WIPO	09/21/1999		WORDLINE DRIVER FOR FLASH ELECTRICALLY ERASABLE PROGRAMMABLE READ-ONLY MEMORY (EEPROM)
PCT/US2000/21005	C725497	WIPO	08/01/2000		CIRCUIT IMPLEMENTATION TO QUENCH BIT LINE LEAKAGE CURRENT IN PROGRAM AND AUTO PROGRAM DISTURB MODE IN FLASH EPROM USING RESISTOR SOURCE LOAD
PCT/US1999/23109	D138	WIPO	10/05/1999		SCHEME FOR PAGE ERASE AND ERASE VERIFY IN A NON-VOLATILE MEMORY ARRAY
PCT/US1999/018762	D139US	WIPO	08/16/1999		BANK SELECTOR CIRCUIT FOR A SIMULTANEOUS OPERATION FLASH MEMORY DEVICE WITH A FLEXIBLE BANK PARTITION ARCHITECTURE
PCT/US1999/018678	D168WO	WIPO	08/16/1999		SIMULTANEOUS OPERATION FLASH MEMORY DEVICE WITH A FLEXIBLE DEVICE WITH A FLEXIBLE BANK PARTITION ARCHITECTURE
PCT/US1999/18495	D169	WIPO	08/16/1999		METHOD OF MAKING FLEXIBLY PARTITIONED METAL LINE SEGMENTS FOR A SIMULTANEOUS OPERATION FLASH MEMORY DEVICE WITH A FLEXIBLE BANK PARTITION ARCHITECTURE
PCT/US1999/18761	D170	WIPO	08/16/1999		MEMORY ADDRESS DECODING CIRCUIT FOR A SIMULTANEOUS OPERATION FLASH MEMORY DEVICE WITH A FLEXIBLE BANK PARTITION ARCHITECTURE
PCT/US2000/012343	D832WO	WIPO	05/05/2000		RAMPED OR STEPPED GATE CHANNEL ERASE FOR FLASH MEMORY APPLICATION
PCT/US2000/033044	D853	WIPO	12/05/2000		METHOD TO PROVIDE A REDUCED CONSTANT E-FIELD DURING ERASE OF EEPROMS FOR RELIABILITY IMPROVEMENT
PCT/US2000/26874	D894PCT	WIPO	09/29/2000		METHOD OF MANUFACTURING A SEMICONDUCTOR DEVICE WITH REDUCED ARC LOSS IN PERIPHERAL CIRCUITRY REGION

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PATENT OR APPL NO.	SPANSION REFERENCE NO.	COUNTRY	FILING DATE	ISSUE DATE	TITLE
PCT/US2000/34213	D958PCT	WIPO	12/13/2000		NOVEL NITRIDATION BARRIERS FOR NITRIDATED TUNNEL OXIDE FOR CIRCUITRY FOR FLASH TECHNOLOGY AND FOR LOCOS/STI ISOLATION
PCT/US2001/13855	DA01011	WIPO	04/27/2001		A SUBMICRON SEMICONDUCTOR DEVICE HAVING A SELF-ALIGNED CHANNEL STOP REGION AND A METHOD FOR FABRICATING THE SEMICONDUCTOR DEVICE USING A TRIM AND ETCH
PCT/US2000/19486	DA01016PCT	WIPO	07/14/2000		METHOD FOR PROVIDING A DOPANT LEVEL FOR POLYSILICON FOR FLASH MEMORY DEVICES
PCT/US2000/19571	DA01023	WIPO	07/17/2000		METHOD FOR CONTACT SIZE CONTROL FOR NAND TECHNOLOGY
PCT/US2001/10922	DA01025	WIPO	04/03/2001		FLASH MEMORY ARRAY AND A METHOD AND SYSTEM OF FABRICATION THEREOF
PCT/US2001/08867	DA01028	WIPO	03/20/2001		METHOD AND SYSTEM FOR PROVIDING CONTACT TO A FIRST POLYSILICON LAYER IN A FLASH MEMORY DEVICE
PCT/US2000/17912	E0197PCT	WIPO	06/29/2000		NEW METHOD OF FORMING SELECT GATE TO IMPROVE RELIABILITY AND PERFORMANCE FOR NAND-TYPE FLASH MEMORY DEVICES
PCT/US2000/19303	E0251	WIPO	07/14/2000		FLASH MEMORY ARCHITECTURE EMPLOYING THREE LAYER METAL INTERCONNECT
PCT/US2001/06364	E0255	WIPO	02/27/2001		CHARGE SHARING TO HELP BOOST THE WORDLINES DURING APDE VERIFY
PCT/US2001/04050	E0264	WIPO	02/07/2001		TRIMMING METHOD FOR WORDLINE BOOSTER TO MINIMIZE PROCESS VARIATION OF BOOSTED WORDLINE VOLTAGE
PCT/US2001/024679	E0310US	WIPO	08/06/2001		SELECT TRANSISTOR ARCHITECTURE FOR A VIRTUAL GROUND NON-VOLATILE MEMORY CELL ARRAY
PCT/US2001/003876	E0480PCT	WIPO	02/06/2001		USER SELECTABLE CELL PROGRAMMING
PCT/US2001/003858	E0484PCT	WIPO	02/06/2001		MODE INDICATOR FOR MULTI-LEVEL MEMORY
PCT/US2001/003863	E0485PCT	WIPO	02/06/2001		INTERLACED MULTI-LEVEL MEMORY
PCT/US2000/034093	E0584US	WIPO	12/15/2000		CHAINED ARRAY OF SEQUENTIAL ACCESS MEMORIES ENABLING CONTINUOUS READ
PCT/US2001/003877	E1021US	WIPO	02/06/2001		VARIABLE PULSE WIDTH MEMORY PROGRAMMING
PCT/US2001/049057	F0259WO	WIPO	12/14/2001		MODULATED CHARGE PUMP WHICH USES AN ANALOG TO DIGITAL CONVERTER TO COMPENSATE FOR SUPPLY VOLTAGE VARIATIONS
PCT/US2002/030784	F0283WO	WIPO	09/27/2002		SALICIDED GATE FOR VIRTUAL GROUND ARRAYS
PCT/US2001/032463	F0919	WIPO	10/16/2001		PROGRAMMING METHOD USING VOLTAGE PULSE WITH STEPPED PORTIONS FOR MULTI-LEVEL CELL FLASH MEMORIES
PCT/JP2006/319419	FMA13-00307PCT	WIPO	09/29/2006		TRANSMITTING/RECEIVING SYSTEM, NODE AND COMMUNICATION METHOD
PCT/JP2006/319364	FMA13-00309PCT	WIPO	09/28/2006		SIGNAL RECEIVER APPARATUS AND WAVEFORM SHAPING METHOD
PCT/JP2007/056890	FMA13-00331JP	WIPO	03/29/2007		DISPLAY CONTROL DEVICE, INFORMATION PROCESSOR, AND DISPLAY CONTROL PROGRAM
PCT/JP2007/062590	FMA13-00332PCT	WIPO	06/22/2007		PLL CONTROL CIRCUIT, PLL DEVICE, PLL CONTROL METHOD
PCT/JP2007/055092	FMA13-00335PCT	WIPO	03/14/2007		OUTPUT CIRCUIT
PCT/JP2007/000183	FMA13-00342PCT	WIPO	03/08/2007		SOFTWARE OPTIMIZATION DEVICE AND SOFTWARE OPTIMIZATION METHOD
PCT/JP2007/000274	FMA13-00343JP DIV2	WIPO	03/20/2007		PROCESSOR SYSTEM OPTIMIZATION SUPPORTING APPARATUS AND SUPPORTING METHOD
PCT/JP2007/067189	FMA13-00352JP	WIPO	09/04/2007		CHARGING CIRCUIT
PCT/JP2007/071430	FMA13-00353KR	WIPO	11/02/2007		SIGNAL PROCESSOR AND COMMUNICATION DEVICE
PCT/JP2008/070669	FMA13-00408PCT	WIPO	11/13/2008		MICROCOMPUTER
PCT/EP2008/065314	FMA13-00472JP	WIPO	11/11/2008		METHOD OF DETECTING AN OPERATING CONDITION OF AN ELECTRIC STEPPER ...
PCT/JP2003/004968	FMA13-00549JP	WIPO	04/18/2003		CONSTANT-VOLTAGE POWER SUPPLY CIRCUIT
PCT/IB2014/000998	FMA13-00582PCT	WIPO	03/19/2014		SEMICONDUCTOR DEVICE AND ERASING METHOD THEREOF
PCT/JP2000/005574	FMA13-00933KR	WIPO	08/18/2000		FREQUENCY MEASUREMENT CIRCUIT
PCT/JP2002/013701	FMA13-0172PCT	WIPO	12/26/2002		SIGMA DELTA MODULATOR FOR PLL CIRCUIT
PCT/JP2003/002443	FMA13-0178KR	WIPO	03/03/2003		MOS VARIABLE CAPACITIVE DEVICE
PCT/JP2003/004571	FMA13-0185JP	WIPO	04/10/2003		PULSE WIDTH MEASURING APPARATUS WITH AUTO-RANGE SETTING FUNCTION
PCT/JP2003/004794	FMA13-0190JP DIV	WIPO	04/15/2003		CRYSTAL OSCILLATION CIRCUIT
PCT/JP2003/015215	FMA13-0197WO	WIPO	11/28/2003		SIGMA-DELTA MODULATOR OF PLL CIRCUIT
PCT/2004/013041	FMA13-0217KR	WIPO	09/08/2004		PLL FREQUENCY SYNTHESIZER
PCT/US2001/043730	G0063WO	WIPO	11/14/2001		ACCURATE VERIFY APPARATUS AND METHOD FOR NOR FLASH MEMORY CELLS IN THE PRESENCE OF HIGH COLUMN LEAKAGE
PCT/US2002/04779	G0259PCT	WIPO	02/19/2002		FLASH MEMORY DEVICE WITH INCREASE OF EFFICIENCY DURING AN APDE (AUTOMATIC PROGRAM DISTURB AFTER ERASE) PROCESS
PCT/US2003/18309	G0391WO	WIPO	06/10/2003		BUILT-IN-SELF-TEST (BIST) OF FLASH MEMORY CELLS AND IMPLEMENTATION OF BIST INTERFACE
PCT/US2003/004607	G0861US	WIPO	02/14/2003		IMPROVED ERASE METHOD FOR SINGLE SIDED MIRROR OPERATION
PCT/US2003/004606	G0863US	WIPO	02/14/2003		OVERERASE CORRECTION METHOD
PCT/US2003/21676	G0878PCT	WIPO	07/10/2003		A METHOD AND SYSTEM FOR ERASING A NITRIDE MEMORY DEVICE
PCT/US2003/003330	G1255WO	WIPO	02/05/2003		PARTIAL PAGE PROGRAMMING OF MULTI LEVEL FLASH
PCT/US2005/043788	H0290	WIPO	12/02/2005		POLYMER-BASED TRANSISTOR DEVICES, METHODS, AND SYSTEMS
PCT/US2003/021680	H0297PCT	WIPO	07/10/2003		CONTROL OF MEMORY ARRAYS UTILIZING ZENER DIODE-LIKE DEVICES
PCT/US2003/21669	H0343PCT	WIPO	07/10/2003		MOCVD FORMATION OF Cu2S
PCT/US2004/030511	H0423PCT	WIPO	09/16/2004		SELF ASSEMBLY OF CONDUCTING POLYMER FOR FORMATION OF POLYMER MEMORY CELL

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PATENT OR APPL NO.	SPANSION REFERENCE NO.	COUNTRY	FILING DATE	ISSUE DATE	TITLE
PCT/US2003/21679	H0434PCT	WIPO	07/10/2003		STACKED ORGANIC MEMORY DEVICES AND METHODS OF OPERATING AND FABRICATING
PCT/US2004/014696	H0437PCT	WIPO	05/11/2004		PLANAR POLYMER MEMORY DEVICE
PCT/US2006/039398	H0439PCT	WIPO	10/06/2006		SYSTEM AND METHOD FOR PROCESSING AN ORGANIC MEMORY CELL
PCT/US2004/015945	H0442	WIPO	05/21/2004		ORGANIC MEMORY DEVICE AND METHODS OF USING AND MAKING THE DEVICE
PCT/US2004/011811	H0443	WIPO	04/16/2004		ERASING AND PROGRAMMING AN ORGANIC MEMORY DEVICE AND METHODS OF OPERATING AND FABRICATING
PCT/US2003/030000	H0496	WIPO	09/24/2003		MEMORY DEVICE HAVING A P+ GATE AND THIN BOTTOM OXIDE AND METHOD OF ERASING SAME
PCT/US2003/018447	H0514	WIPO	06/10/2003		NITROGEN OXIDATION TO REDUCE ENCROACHMENT
PCT/US2004/022986	H0541	WIPO	07/15/2004		LOW POWER CHARGE PUMP
PCT/US2003/23085	H0570	WIPO	07/24/2003		IMPROVED SYSTEM FOR PROGRAMMING A NON-VOLATILE MEMORY CELL
PCT/US2003/023087	H0575	WIPO	07/24/2003		IMPROVED PRE-CHARGE METHOD FOR READING A NON-VOLATILE
PCT/US2003/21634	H1203	WIPO	07/10/2003		CASCADE AMPLIFIER CIRCUIT FOR PRODUCING A FAST, STABLE AND ACCURATE BITLINE VOLTAGE
PCT/US2003/23083	H1205	WIPO	07/24/2003		CIRCUIT FOR ACCURATE MEMORY READ OPERATIONS
PCT/US2004/019664	H1368PCT	WIPO	06/18/2004		PECVD SILICON-RICH OXIDE LAYER FOR REDUCED UV CHARGING
PCT/RU2001/000334	H1979PCT	WIPO	08/13/2001		MEMORY CELL
PCT/US2005/004583	H1984US	WIPO	02/11/2005		METHODS AND APPARATUS FOR WORDLINE PROTECTION IN FLASH MEMORY DEVICES
PCT/US2004/042855	H1985PCT	WIPO	12/17/2004		POCKET IMPLANT FOR COMPLEMENTARY BIT DISTURB IMPROVEMENT AND CHARGING IMPROVEMENT OF SONOS MEMORY CELL
PCT/US2005/015132	H1990PCT	WIPO	04/29/2005		METHOD OF FORMING NARROWLY SPACED FLASH MEMORY CONTACT OPENINGS AND LITHOGRAPHY MASKS
PCT/US2005/004540	H1993PCT	WIPO	02/11/2005		BITLINE IMPLANT UTILIZING DUAL POLY
PCT/US2006/012575	H1998	WIPO	04/04/2006		NON-CRITICAL COMPLEMENTARY MASKING METHOD FOR POLY-1 DEFINITION IN FLASH MEMORY DEVICE FABRICATION
PCT/US2003/029985	P072WO	WIPO	09/24/2003		METHOD FOR REDUCING CONTACT DEFECTS IN SEMICONDUCTOR CELLS
PCT/US2002/039739	P116WO	WIPO	12/11/2002		METHOD FOR FORMING A SHALLOW TRENCH ISOLATION STRUCTURE WITH IMPROVED CORNER ROUNDING
PCT/IL2001/000399	P-2448WO	WIPO	05/03/2001		PROGRAMMING OF NONVOLATILE MEMORY CELLS
PCT/IL2002/000855	P-4006WO	WIPO	10/24/2002		METHOD FOR ERASING A MEMORY CELL
PCT/IL2002/000922	P-4007WO	WIPO	11/18/2002		PROTECTIVE LAYER IN MEMORY DEVICE AND METHOD THEREFOR
PCT/IL2004/000981	P-5484US	WIPO	10/27/2004		METHOD SYSTEM AND CIRCUIT FOR PROGRAMMING A NON-VOLATILE MEMORY ARRAY
PCT/IL2004/000982	P-5487-TW	WIPO	10/27/2004		METHOD CIRCUIT AND SYSTEM FOR DETERMINING A REFERENCE VOLTAGE
PCT/IL2004/000983	P-5487-TW1	WIPO	10/27/2004		METHOD FOR READ ERROR DETECTION IN A NON-VOLATILE MEMORY ARRY
PCT/US2003/007639	SE0002WO	WIPO	03/11/2003		SYSTEM AND METHOD OF ERASE VOLTAGE CONTROL DURING MULTIPLE SECTOR ERASE OF A FLASH MEMORY DEVICE
PCT/US2010/039585	SP09-0001PCT	WIPO	06/23/2010		ELECTRONIC DEVICE HAVING A MOLDING COMPOUND INCLUDING A COMPOSITE MATERIAL
PCT/US2013/063089	SP09-0008PCT	WIPO	10/02/2013		IMPROVED SPACER DESIGN TO PREVENT TRAPPED ELECTRONS
PCT/US2008/000435	SP09-0017.PCT	WIPO	01/10/2008		METHODS FOR FORMING A MEMORY CELL HAVING A TOP OXIDE SPACER
PCT/US2013/42673	SP09-0030PCT	WIPO	05/24/2013		METHOD, APPARATUS, AND MANUFACTURE FOR FLASH MEMORY ADAPTIVE ALGORITHM
PCT/US2012/068467	SP09-0056KR	WIPO	12/07/2012		HIGH SPEED SERIAL PERIPHERAL INTERFACE MEMORY SUBSYSTEM
PCT/US2013/52852	SP09-0058PCT	WIPO	07/31/2013		POWER SAVINGS APPARATUS AND METHOD FOR MEMORY DEVICE USING DELAY LOCKED LOOP
PCT/2014/071369	SP10-0003PCT	WIPO	12/19/2014		CT-NOR DIFFERENTIAL BITLINE SENSING ARCHITECTURE
PCT/US2013/68289	SP10-0006PCT	WIPO	11/04/2013		WEAR LEVELING IN FLASH MEMORY DEVICES WITH TRIM COMMANDS
PCT/US2011/065442	SP10-0007WO	WIPO	12/16/2011		SELF-ALIGNED NAND FLASH SELECT-GATE WORDLINES FOR SPACER DOUBLE PATTERNING
PCT/US2011/065930	SP10-0008 PCT	WIPO	12/19/2011		EDGE ROUNDED FIELD EFFECT TRANSISTORS AND METHODS OF MANUFACTURING
PCT/US2011/065923	SP10-0009WO	WIPO	12/19/2011		PROCESS MARGIN ENGINEERING IN CHARGE TRAPPING FIELD EFFECT TRANSISTORS
PCT/US2011/067905	SP10-0012WO-PCT	WIPO	12/29/2011		MEMORY WITH EXTENDED CHARGE TRAPPING LAYER
PCT/US2013/040904	SP11-0015KR	WIPO	05/14/2013		SOFT ERROR RESISTANT CIRCUITRY
PCT/US2013/025417	SP11-0027KR	WIPO	02/08/2013		IMPROVING REDUNDANCY LOADING EFFICIENCY
PCT/US13/049054	SP11-0028US	WIPO	07/02/2013		APPARATUS AND METHOD FOR ROUNDED ONO FORMATION IN A FLASH MEMORY DEVICE
PCT/US2014/032704	SP11-0030US	WIPO	04/02/2014		MODIFIED LOCAL SEGMENTED SELF-BOOSTING OF MEMORY CELL CHANNELS
PCT/US2014/010299	SP11-0038PCT	WIPO	01/06/2014		MULTI-CHIP PACKAGE ASSEMBLY WITH IMPROVED BOND WIRE SEPARATION
PCT/US2013/070141	SP11-0039US	WIPO	11/14/2013		METHOD AND SYSTEM FOR PROCESSING A WAFER
PCT/US2013/076149	SP11-0040PCT	WIPO	12/18/2013		PHONEME SCORE ACCELERATOR
PCT/US2012/069787	SP11-0042PCT	WIPO	12/14/2012		ACOUSTIC PROCESSING UNIT
PCT/US2014/032678	SP11-0043PCT	WIPO	04/02/2014		COMBINING OF RESULTS FROM MULTIPLE DECODERS
PCT/US2013/037800	SP11-0044PCT	WIPO	04/23/2013		POWER-EFFICIENT VOICE ACTIVATION
PCT/US2013/070561	SP12-0004PCT	WIPO	11/18/2013		DATA REFRESH IN NON-VOLATILE MEMORY
PCT/US2013/076154	SP12-0012PCT	WIPO	12/18/2013		CHIP POSITIONING IN MULTI-CHIP PACKAGE

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PCT/US2013/034778	SP12-0013PCT	WIPO	04/01/2013		ADAPTIVELY PROGRAMMING OR ERASING FLASH MEMORY BLOCKS
PCT/US2013/070579	SP12-0016PCT	WIPO	11/18/2013		METHOD TO IMPROVE CHARGE TRAP FLASH MEMORY CORE CELL PERFORMANCE AND RELIABILITY
PCT/US2013/49574	SP12-0017PCT	WIPO	07/08/2013		LEAKAGE REDUCING WRITELINE CHARGE PROTECTION CIRCUIT
PCT/US2013/52504	SP12-0021PCT	WIPO	07/29/2013		BITLINE VOLTAGE REGULATION IN NON-VOLATILE MEMORY
PCT/US2014/032495	SP12-0022PCT	WIPO	04/01/2014		ERASE VERIFICATION
PCT/US2014/013847	SP12-0026PCT	WIPO	01/30/2014		NON-VOLATILE MEMORY WITH SILICIDED BIT LINE CONTACTS
PCT/US2014/010489	SP12-0027PCT	WIPO	01/07/2014		PROGRAMMABLE AND FLEXIBLE REFERENCE CELL SELECTION METHOD FOR MEMORY DEVICES
PCT/US2013/071217	SP12-0028PCT	WIPO	11/21/2013		FORMING CHARGE TRAP SEPARATION IN A FLASH MEMORY SEMICONDUCTOR DEVICE
PCT/US2013/071214	SP12-0029PCT	WIPO	11/21/2013		FORMING A SUBSTANTIALLY UNIFORM WING HEIGHT AMONG ELEMENTS IN A CHARGE TRAP SEMICONDUCTOR DEVICE
PCT/US2013/076140	SP12-0030PCT	WIPO	12/18/2013		MEMORY DEVICE WITH INTERNAL DATA PROCESSING LOGIC
PCT/US2013/068449	SP12-0031PCT	WIPO	11/05/2013		SENONE SCORING FOR MULTIPLE INPUT STREAMS
PCT/IB2014/058829	SP12-0032US	WIPO	02/06/2014		IMPROVED NON-VOLATILE MEMORY DEVICE
PCT/US2013/075313	SP12-0033PCT	WIPO	12/16/2013		HYBRID HASHING SCHEME FOR ACTIVE HMMS
PCT/US2013/063088	SP12-0034PCT	WIPO	10/02/2013		SUPPLY POWER DEPENDENT CONTROLLABLE WRITE THROUGHPUT FOR MEMORY APPLICATIONS
PCT/US2013/075309	SP12-0036PCT	WIPO	12/16/2013		HISTOGRAM BASED PRE-PRUNING SCHEME FOR ACTIVE HMMS (as amended)
PCT/US2013/077835	SP12-0037PCT	WIPO	12/26/2013		DESIGN FOR TEST (DFT) READ SPEED THROUGH TRANSITION DETECTOR IN BUILT-IN SELF-TEST (BIST) SORT
PCT/US2014/010301	SP12-0041PCT	WIPO	01/06/2014		BURIED HARD MASK FOR EMBEDDED SEMICONDUCTOR DEVICE PATTERNING
PCT/US2013/068452	SP12-0042PCT	WIPO	11/05/2013		RECOGNITION OF SPEECH WITH DIFFERENT ACCENTS
PCT/US2014/034367	SP12-0043PCT	WIPO	04/16/2014		DIE SEAL LAYOUT FOR DUAL DAMASCENE IN A SEMICONDUCTOR DEVICE
PCT/US2013/070309	SP12-0045PCT	WIPO	11/15/2013		INTER-LAYER INSULATOR FOR ELECTRONIC DEVICES AND APPARATUS FOR FORMING SAME
PCT/US2013/070057	SP12-0046PCT	WIPO	11/14/2013		DISTRIBUTION OF GAS OVER A SEMICONDUCTOR WAFER IN BATCH PROCESSING
PCT/US2014/021255	SP12-0051PCT	WIPO	03/06/2014		PIPELINING IN A MEMORY
PCT/US2014/010514	SP12-0054PCT	WIPO	01/07/2014		DISTRIBUTED SPEECH RECOGNITION SYSTEM
PCT/US2014/040677	SP12-0060PCT	WIPO	06/03/2014		SCREENING FOR REFERENCE CELLS IN A MEMORY
PCT/US2014/034967	SP12-0064PCT	WIPO	04/22/2014		CHARGE-TRAP NOR WITH SILICON-RICH NITRIDE AS A CHARGE TRAP LAYER
PCT/US2013/073327	SP12-0067PCT	WIPO	12/05/2013		INTEGRATED CIRCUITS WITH NON-VOLATILE MEMORY AND METHODS FOR MANUFACTURE
PCT/US2013/074651	SP12-0068PCT	WIPO	12/12/2013		HIGH VOLTAGE GATE FORMATION
PCT/US2013/074390	SP12-0069PCT	WIPO	12/11/2013		MEMORY FIRST PROCESS FLOW AND DEVICE
PCT/US2013/074386	SP12-0070PCT	WIPO	12/11/2013		CHARGE TRAPPING SPLIT GATE EMBEDDED FLASH MEMORY AND ASSOCIATED METHODS
PCT/US2013/074652	SP12-0071PCT	WIPO	12/12/2013		CHARGE TRAPPING DEVICE WITH IMPROVED SELECT GATE TO MEMORY GATE ISOLATION
PCT/US2013/074713	SP12-0072PCT	WIPO	12/12/2013		THREE DIMENSIONAL CAPACITOR
PCT/US2013/074710	SP12-0073PCT	WIPO	12/12/2013		USE DISPOSABLE GATE CAP TO FORM TRANSISTORS, AND SPLIT GATE CHARGE TRAPPING MEMORY CELLS
PCT/US2013/074732	SP12-0074PCT	WIPO	12/12/2013		PROCESS CHARGING PROTECTION FOR SPLIT GATE CHARGE TRAPPING FLASH
PCT/US2013/074724	SP12-0075PCT	WIPO	12/12/2013		CHARGE TRAPPING SPLIT GATE DEVICE AND METHOD OF FABRICATING SAME
PCT/US2013/074659	SP12-0076PCT	WIPO	12/12/2013		MEMORY GATE LANDING PAD MADE FROM DUMMY FEATURES
PCT/US2014/060714	SP12-0077PCT	WIPO	10/15/2014		THREE-DIMENSIONAL CHARGE TRAPPING NAND CELL WITH DISCRETE CHARGE TRAPPING FILM
PCT/US2014/013853	SP12-0079PCT	WIPO	01/30/2014		MANUFACTURING OF FET DEVICES HAVING LIGHTLY DOPED DRAIN AND SOURCE REGIONS
PCT/US2014/032674	SP12-0081PCT	WIPO	04/02/2014		AUTHENTICATION FOR RECOGNITION SYSTEMS
PCT/US2014/071524	SP13-0008PCT	WIPO	12/19/2014		GATE FORMATION MEMORY BY PLANARIZATION
PCT/US2014/040873	SP13-0009PCT	WIPO	06/04/2014		PROGRAMMABLE LATENCY COUNT TO ACHIEVE HIGHER MEMORY BANDWIDTH