

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT5253385

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	SECURITY AGREEMENT

CONVEYING PARTY DATA

Name	Execution Date
GLOBALFOUNDRIES SINGAPORE PTE. LTD.	11/27/2018

RECEIVING PARTY DATA

Name:	WILMINGTON TRUST, NATIONAL ASSOCIATION
Street Address:	1100 NORTH MARKET STREET
City:	WILMINGTON
State/Country:	DELAWARE
Postal Code:	19801

PROPERTY NUMBERS Total: 607

Property Type	Number
Application Number:	14952567
Application Number:	15180117
Application Number:	12354777
Application Number:	11696732
Application Number:	13775844
Application Number:	14173825
Application Number:	14253629
Application Number:	11683655
Application Number:	15227979
Application Number:	14138593
Application Number:	13349601
Application Number:	15432941
Application Number:	15685798
Application Number:	15135585
Application Number:	11854972
Application Number:	12616150
Application Number:	12361521
Application Number:	12241073
Application Number:	12693405
Application Number:	12790975

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Property Type	Number
Application Number:	12471007
Application Number:	12696067
Application Number:	12401622
Application Number:	12378513
Application Number:	12390509
Application Number:	12695167
Application Number:	12860946
Application Number:	12550407
Application Number:	12510276
Application Number:	12241105
Application Number:	12242570
Application Number:	12336544
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Application Number:	12235043
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Application Number:	12203924
Application Number:	12132342
Application Number:	12168816
Application Number:	10970077
Application Number:	10703289
Application Number:	11302035
Application Number:	13353922
Application Number:	13353336
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Application Number:	12057072
Application Number:	11706891
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Application Number:	12825325
Application Number:	12103690
Application Number:	11153747
Application Number:	12062534

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Application Number:	12488451
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Application Number:	12500620
Application Number:	12422694
Application Number:	11428618
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Application Number:	13445658
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Application Number:	13533959
Application Number:	11686475

Property Type	Number
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Application Number:	12262120
Application Number:	11933810
Application Number:	11967270
Application Number:	12172756
Application Number:	11369239
Application Number:	12509821

CORRESPONDENCE DATA

Fax Number: (800)914-4240

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

Phone: 8007130755

Email: james.murray@wolterskluwer.com, ECarrera@cahill.com

Correspondent Name: CT CORPORATION

Address Line 1: 4400 EASTON COMMONS WAY

Address Line 2: SUITE 125

Address Line 4: COLUMBUS, OHIO 43219

NAME OF SUBMITTER: ELAINE CARRERA

SIGNATURE: /Elaine Carrera/

DATE SIGNED: 11/27/2018

Total Attachments: 27

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PATENT SECURITY AGREEMENT

This PATENT SECURITY AGREEMENT (this “IP Security Agreement”), dated as of November 27, 2018, by and between the Person listed on the signature pages hereof (the “Grantor”) and **WILMINGTON TRUST, NATIONAL ASSOCIATION**, as collateral agent for the Secured Parties (in such capacity, together with its successors in such capacity, the “Collateral Agent”).

A. Capitalized terms used herein and not otherwise defined herein (including terms used in the preamble and the recitals) shall have the meanings assigned to such terms in the Security Agreement, dated as of August 27, 2018 (the “Security Agreement”), among **GLOBALFOUNDRIES INC.**, an exempted company incorporated with limited liability under the laws of the Cayman Islands (the “Company”), **GLOBALFOUNDRIES BORROWER LLC**, a Delaware limited liability company (the “Co-Borrower” and together with the Company, the “Borrowers”), each of the subsidiaries of the Company (as defined in the Security Agreement) listed on Schedule 1 thereto or that become a party hereto pursuant to Section 7.13 thereof (each such subsidiary, individually, a “Subsidiary Grantor” and, collectively, the “Subsidiary Grantors”; together with the Company and the Co-Borrower, collectively, the “Grantors”) and **WILMINGTON TRUST, NATIONAL ASSOCIATION**, as collateral agent for the Secured Parties (in such capacity, the “Collateral Agent”).

B. The rules of construction and other interpretive provisions specified in the Credit Agreement shall apply to this Supplement, including terms defined in the preamble and recitals hereto.

C. Pursuant to Section 4.4(e) of the Security Agreement, Grantor has agreed to execute or otherwise authenticate and deliver this IP Security Agreement for recording the Security Interest granted under the Security Agreement to the Collateral Agent in such Grantor’s U.S. Registered Intellectual Property with the United States Patent and Trademark Office and any other Governmental Authorities located in the United States necessary to perfect the Security Interest hereunder in such U.S. Registered Intellectual Property.

Accordingly, the Collateral Agent and Grantor agree as follows:

SECTION 1. Grant of Security. The Grantor hereby grants to the Collateral Agent for the benefit of the Secured Parties a security interest in all of such Grantor’s right, title and interest in and to the United States Patent registrations and applications set forth in Schedule A hereto (collectively, the “Collateral”).

SECTION 2. Security for Obligations. The grant of a security interest in the Collateral by Grantor under this IP Security Agreement secures the payment of all amounts that constitute part of the Obligations and would be owed to the Collateral Agent or the Secured Parties but for the fact that they are unenforceable or not allowable due to the existence of a bankruptcy, reorganization or similar proceeding involving Grantor.

SECTION 3. Recordation. Grantor authorizes and requests that the Commissioner for Patents and any other applicable governmental officer located in the United States record this IP Security Agreement.

SECTION 4. Grants, Rights and Remedies. This IP Security Agreement has been entered into in conjunction with the provisions of the Security Agreement. Grantor does hereby acknowledge and confirm that the grant of the security interest hereunder to, and the rights and remedies of, the Collateral Agent with respect to the Collateral are more fully set forth in the Security Agreement, the terms and provisions of which are incorporated herein by reference as if fully set forth herein. In the event of any conflict between the terms of this Agreement and the terms of the Security Agreement, the terms of the Security Agreement shall govern.

SECTION 5. Counterparts. This IP Security Agreement may be executed by one or more of the parties to this IP Security Agreement on any number of separate counterparts (including by facsimile or other electronic transmission (i.e., a “pdf” or “tif”)), and all of said counterparts taken together shall be deemed to constitute one and the same instrument.

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

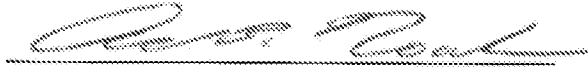
SECTION 7. Severability. Any provision of this IP Security Agreement that is prohibited or unenforceable in any jurisdiction shall, as to such jurisdiction, be ineffective to the extent of such prohibition or unenforceability without invalidating the remaining provisions hereof and in the Security Agreement, and any such prohibition or unenforceability in any jurisdiction shall not invalidate or render unenforceable such provision in any other jurisdiction. The parties hereto shall endeavor in good-faith negotiations to replace the invalid, illegal or unenforceable provisions with valid provisions the economic effect of which comes as close as possible to that of the invalid, illegal or unenforceable provisions.

SECTION 8. Notices. All notices, requests and demands pursuant hereto shall be made in accordance with Section 13.2 of the Credit Agreement. All communications and notices hereunder to Grantor shall be given to it in care of the Borrower at the Borrower’s address set forth in Section 13.2 of the Credit Agreement (whether or not then in effect).

SECTION 9. Expenses. Grantor agrees to reimburse the Collateral Agent for its reasonable and documented out-of-pocket expenses in connection with this IP Security Agreement, including the reasonable and documented fees, other charges and disbursements of counsel for the Collateral Agent.

IN WITNESS WHEREOF, Grantor and the Collateral Agent have duly executed this Agreement as of the day and year first above written.

GLOBALFOUNDRIES SINGAPORE PTE. LTD.,

By: 

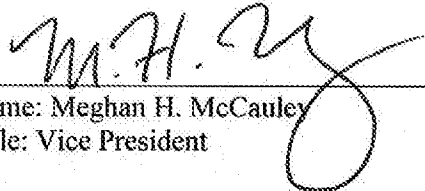
Name: Adam P. Noah
Title: VP and Chief IP Counsel

**WILMINGTON TRUST, NATIONAL
ASSOCIATION,**
as Collateral Agent

By: _____

Name:
Title:

**WILMINGTON TRUST, NATIONAL
ASSOCIATION,**
as Collateral Agent

By: 
Name: Meghan H. McCauley
Title: Vice President

[Signature Page to Patent Security Agreement]

SCHEDULE A TO THE
PATENT SECURITY AGREEMENT

UNITED STATES REGISTERED AND APPLIED FOR PATENTS

Title	Patent Number	Patent Date	Application Number	Application Date	Owner	Status
P-CHANNEL, MULTI-TIME PROGRAMMABLE (MTP) MEMORY CELLS	10062698	2018-08-28	14/952567	2015-11-25	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
HIGH GAIN TRANSISTOR FOR ANALOG APPLICATIONS	N/A	N/A	15/180117	2016-06-13	GLOBALFOUNDRIES Singapore Pte Ltd.	Pending
METHOD TO PREVENT CORROSION OF BOND PAD STRUCTURE	8207052	2012-06-26	12/354777	2009-01-16	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
LARGE TUNING RANGE JUNCTION VARACTOR	8450832	2013-05-28	11/696732	2007-04-05	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
MULTI-TIME PROGRAMMABLE NON-VOLATILE MEMORY	8772108	2014-07-08	13/775844	2013-02-25	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
1T SRAM/DRAM	9184165	2015-11-10	14/173825	2014-02-06	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
SILICON-ON-INSULATOR INTEGRATED CIRCUIT DEVICES WITH BODY CONTACT STRUCTURES	9230990	2016-01-05	14/253629	2014-04-15	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
INTEGRATED CIRCUIT SYSTEM WITH DOUBLE DOPED DRAIN TRANSISTOR	9269770	2016-02-23	11/683655	2007-03-08	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
WIDE RANGE LEVEL SHIFTER FOR LOW VOLTAGE INPUT APPLICATIONS	9843326	2017-12-12	15/227979	2016-08-04	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
THREE-DIMENSIONAL INTEGRATED CIRCUIT STRUCTURES PROVIDING THERMOELECTRIC COOLING AND METHODS FOR COOLING SUCH INTEGRATED CIRCUIT STRUCTURES	9847272	2017-12-19	14/138593	2013-12-23	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
EFFICIENT TRANSFER OF MATERIALS IN MANUFACTURING EMBEDDED MEMORY IN BACK-END-OF-LINE LOW-K DIELECTRIC	10008387	2018-06-26	15/432941	2017-02-15	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
HIGH VOLTAGE PNP USING ISOLATION FOR ESD AND METHOD FOR PRODUCING THE SAME	10037988	2018-07-31	15/685798	2017-08-24	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
A NEW ESD RC CLAMP WITH GATE VOLTAGE LIMITER	N/A	N/A	15/133585	2016-04-22	GLOBALFOUNDRIES Singapore Pte Ltd.	Pending
INTEGRATED CIRCUIT SYSTEM WITH CLEAN SURFACES	7968148	2011-06-28	11/854972	2007-09-13	Chartered Semiconductor Manufacturing Ltd. And GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
MOS VARACTORS WITH LARGE TUNING RANGE	7994563	2011-08-09	12/616150	2009-11-11	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
MEMORY CELL STRUCTURE AND METHOD FOR FABRICATION THEREOF	7999300	2011-08-16	12/361521	2009-01-28	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
METHOD TO REMOVE SPACER AFTER SALICIDATION TO ENHANCE CONTACT ETCH STOP LINER STRESS ON MOS	7999325	2011-08-16	12/241073	2008-09-30	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
METHOD OF FABRICATION AN INTEGRATED CIRCUIT	8003529	2011-08-23	12/693405	2010-01-25	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
SELECTIVE STI STRESS RELAXATION THROUGH ION IMPLANTATION	8008744	2011-08-30	12/790975	2010-05-31	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
INTEGRATED CIRCUIT SYSTEM WITH HIERARCHICAL CAPACITOR AND METHOD OF MANUFACTURE THEREOF	8021954	2011-09-20	12/471007	2009-05-22	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
ANGLED WEDGE CHROME-FACE WALL FOR INTENSITY BALANCE OF ALTERNATING PHASE SHIFT MASK	8034543	2011-10-11	12/696067	2010-01-29	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
RELIABLE MEMORY CELL	8034670	2011-10-11	12/401622	2009-03-11	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
FABRICATING METHOD FOR CRACK STOP STRUCTURE ENHANCEMENT OF INTEGRATED CIRCUIT SEAL RING	8048761	2011-11-01	12/378513	2009-02-17	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
METHOD OF FORMING A HIGH VOLTAGE DEVICE	8053319	2011-11-08	12/390509	2009-02-23	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
MASK AND METHOD TO PATTERN CHROMELESS PHASE LITHOGRAPHY CONTACT HOLE	8057968	2011-11-15	12/695167	2010-01-28	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
RELIABLE INTERCONNECTS	8102054	2012-01-24	12/860946	2010-08-23	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
ASYMMETRICAL TRANSISTOR DEVICE AND METHOD OF FABRICATION	8110470	2012-02-07	12/550407	2009-08-31	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
MODULATION OF STRESS IN STRESS FILM THROUGH ION IMPLANTATION AND ITS APPLICATION IN STRESS MEMORIZATION TECHNIQUE	8119541	2012-02-21	12/510276	2009-07-28	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
INTEGRATED CIRCUIT STRUCTURE WITH ELECTRICAL STRAP AND ITS METHOD OF FORMING	8188550	2012-05-29	12/241105	2008-09-30	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted

OPTICAL COLOR SENSOR SYSTEM	8188560	2012-05-29	12/242570	2008-09-30	GLOBALFOUNDRIES Singapore Pte Ltd	Granted
TUNABLE SPACERS FOR IMPROVED GAPPILL METHOD AND APPARATUS TO REDUCE THERMAL VARIATIONS WITHIN AN INTEGRATED CIRCUIT DIE USING THERMAL PROXIMITY CORRECTION	8236678	2012-08-07	12/336544	2008-12-17	GLOBALFOUNDRIES Singapore Pte Ltd	Granted
INTEGRATED CIRCUIT SYSTEM WITH ANTENNA RELIABLE INTERCONNECTS	8293544	2012-10-23	12/220792	2008-07-28	GLOBALFOUNDRIES Singapore Pte Ltd	Granted
DIHEDRAL BARRIER AND METHOD OF FORMATION THEREOF	8672231	2014-03-18	12/233043	2008-09-22	GLOBALFOUNDRIES Singapore Pte Ltd	Granted
POLISHING WITH ENHANCED UNIFORMITY	8324031	2012-12-04	12/144652	2008-08-22	GLOBALFOUNDRIES Singapore Pte Ltd	Granted
SYSTEM FOR DETERMINING POTENTIAL LOT CONSOLIDATION DURING MANUFACTURING	8371904	2013-02-12	12/188226	2008-08-08	GLOBALFOUNDRIES Singapore Pte Ltd	Granted
SLOT DESIGNS IN WIDE METAL LINES	8712569	2014-04-29	12/147489	2008-06-27	GLOBALFOUNDRIES Singapore Pte Ltd	Granted
PATTERNING NANOCRYSTAL LAYERS	9318378	2016-04-19	10/923123	2004-08-21	GLOBALFOUNDRIES Singapore Pte Ltd	Granted
INTERCONNECTS WITH IMPROVED TDDB	7879673	2011-02-01	12/436793	2009-05-07	GLOBALFOUNDRIES Singapore Pte Ltd	Granted
INTEGRATED CIRCUIT SYSTEM EMPLOYING BACK END OF LINE VIA TECHNIQUES	8053361	2011-11-08	12/203924	2008-09-04	GLOBALFOUNDRIES Singapore Pte Ltd and Chartered Semiconductor Manufacturing Pte Ltd. And International Business Machines Corporation	Granted
INTEGRATED CIRCUIT SYSTEM EMPLOYING ALTERNATING CONDUCTIVE LAYERS	8115276	2012-02-14	12/132342	2008-06-03	Chartered Semiconductor Manufacturing Ltd. And GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
METHOD AND APPARATUS FOR REMOVING RADIATION SIDE LOBES	9147654	2015-09-29	12/168816	2008-07-07	Chartered Semiconductor Manufacturing Ltd. And GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
NON-VOLATILE MEMORY MANUFACTURING METHOD USING STI TRENCH IMPLANTATION	8048588	2011-11-01	10/970077	2004-10-20	Chartered Semiconductor Manufacturing Ltd. And GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
SELECTIVE STRESS RELAXATION OF CONTACT ETCH STOP LAYER THROUGH LAYOUT DESIGN	8236646	2012-08-07	10/703289	2003-11-06	Chartered Semiconductor Manufacturing Ltd. And GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
CHARGING CONTROLLED RRAM DEVICE, AND METHODS OF MAKING SAME	7888214	2011-02-15	11/302035	2005-12-13	Chartered Semiconductor Manufacturing Ltd. And GLOBALFOUNDRIES Singapore Pte Ltd. And Nanyang Technological University of Singapore	Granted
LOW OHMIC CONTACTS	8673692	2014-03-18	13/353922	2012-01-19	GLOBALFOUNDRIES Singapore Pte Ltd and Nanyang Technological University of Singapore	Granted
METHODS FOR ENHANCING PHOTOLITHOGRAPHY PATTERNING	8922003	2014-12-30	13/353336	2012-01-19	GLOBALFOUNDRIES Singapore Pte Ltd and Nanyang Technological University of Singapore	Granted
EMBEDDED STRESSOR STRUCTURE AND PROCESS	8450046	2013-05-28	12/392093	2009-02-24	GLOBALFOUNDRIES Singapore Pte Ltd and National University of Singapore	Granted
METHOD FOR REDUCING SILICIDE DEFECTS IN INTEGRATED CIRCUITS	7939413	2011-05-10	11/297522	2005-12-08	GLOBALFOUNDRIES Singapore Pte Ltd, International Business Machine Corporation and Samsung Electronics Co. Ltd.	Granted
METHODS FOR NORMALIZING STRAIN IN A SEMICONDUCTOR DEVICE	7745320	2010-06-29	12/124177	2008-05-21	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
STRUCTURE AND METHOD TO FORM SOURCE AND DRAIN REGIONS OVER DOPED DEPLETION REGIONS	7816274	2010-10-19	12/057072	2008-03-27	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
METHOD OF MANUFACTURE AN INTEGRATED CIRCUIT SYSTEM WITH THROUGH SILICON VIA	7888752	2011-02-15	11/706891	2007-02-14	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
METHOD FOR REDUCING SILICIDE DEFECTS IN INTEGRATED CIRCUITS	7960282	2011-06-14	12/470028	2009-05-21	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
MULTI-VARIABLE REGRESSION FOR METROLOGY	7960283	2011-06-14	12/825325	2010-06-28	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
GRAIN BOUNDARY BLOCKING FOR STRESS MIGRATION AND ELECTROMIGRATION IMPROVEMENT IN CU INTERCONNECTS	7966142	2011-06-21	12/103690	2008-04-15	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
	7989338	2011-08-02	11/153747	2005-06-15	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted

PLANARIZED PASSIVATION LAYER FOR SEMICONDUCTOR DEVICES	7998831	2011-08-16	12/062534	2008-04-04	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
INTEGRATED CIRCUIT SYSTEM WITH HIGH VOLTAGE TRANSISTOR AND METHOD OF MANUFACTURE THEREOF	8138051	2012-03-20	12/488451	2009-06-19	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
TEST CHIPS LETS FOR DEVICES	8178368	2012-05-15	12/621513	2009-11-19	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
HIGH VOLTAGE DEVICE	8222130	2012-07-17	12/500620	2009-07-10	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
INTEGRATED CIRCUIT SYSTEM WITH A FLOATING DIELECTRIC REGION AND METHOD OF MANUFACTURE THEREOF	8242559	2012-08-14	12/422694	2009-04-13	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
INTEGRATED CIRCUIT SYSTEM INCLUDING NITRIDE LAYER TECHNOLOGY	8283263	2012-10-09	11/428618	2006-07-05	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
HYBRID TRANSISTOR	8288800	2012-10-16	12/651487	2010-01-04	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
DEFECT DETECTION RECIPE DEFINITION	8289508	2012-10-16	12/621510	2009-11-19	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
INTEGRATED CIRCUIT SYSTEM WITH SUB-GEOMETRY REMOVAL AND METHOD OF MANUFACTURE THEREOF	8293546	2012-10-23	12/477448	2009-06-03	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
HIGH PERFORMANCE LDMOS DEVICE HAVING ENHANCED DIELECTRIC STRAIN LAYER	8293614	2012-10-23	13/333118	2011-12-21	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
SEMICONDUCTOR LOCAL INTERCONNECT AND CONTACT	8304834	2012-11-06	11/466350	2006-08-22	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
DEFECT MONITORING IN SEMICONDUCTOR DEVICE FABRICATION	8339449	2012-12-25	12/537269	2009-08-07	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
METHOD OF FABRICATING A SILICON TUNNELING FIELD EFFECT TRANSISTOR (TFET) WITH HIGH DRIVE CURRENT	8368127	2013-02-05	12/587511	2009-10-08	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
MASK SYSTEM EMPLOYING SUBSTANTIALLY CIRCULAR OPTICAL PROXIMITY CORRECTION TARGET AND METHOD OF MANUFACTURE THEREOF	8413083	2013-04-02	12/465431	2009-05-13	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
METHODS FOR REDUCING LOADING EFFECTS DURING FILM FORMATION	8415236	2013-04-09	12/648309	2009-12-29	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
SELF-ALIGNED BODY FULLY ISOLATED DEVICE	8445960	2013-05-21	13/609270	2012-09-11	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
TSV BACKSIDE PROCESSING USING COPPER DAMASCENE INTERCONNECT TECHNOLOGY	8466062	2013-06-18	13/287220	2011-11-02	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
STEP-LIKE SPACER PROFILE	8492236	2013-07-23	13/348766	2012-01-12	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
HIGH VOLTAGE DEVICE	8507983	2013-08-13	13/550571	2012-07-16	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
MEMORY CELL WITH IMPROVED RETENTION	8530310	2013-09-10	12/650561	2009-12-31	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
RRAM STRUCTURE WITH IMPROVED MEMORY MARGIN	8536558	2013-09-17	13/562646	2012-07-31	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
INTEGRATED CIRCUIT SYSTEM WITH THROUGH SILICON VIA AND METHOD OF MANUFACTURE THEREOF	8536705	2013-09-17	13/455152	2012-04-25	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
METHODS OF PROTECTING ELEVATED POLYSILICON STRUCTURES DURING ETCHING PROCESSES	8569173	2013-10-29	13/314270	2011-12-08	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
INTEGRATED CIRCUIT PACKAGING SYSTEM WITH CORE REGION AND BOND PAD AND METHOD OF MANUFACTURE THEREOF	8603909	2013-12-10	12/613224	2009-11-05	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
SPACERLESS LOW-K DIELECTRIC PROCESSES	8624329	2014-01-07	12/613541	2009-11-06	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
ASYMMETRICAL TRANSISTOR DEVICE AND METHOD OF FABRICATION	8629503	2014-01-14	13/366355	2012-02-06	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
INTEGRATED CIRCUIT COMMUNICATION SYSTEM WITH DIFFERENTIAL SIGNAL AND METHOD OF MANUFACTURE THEREOF	8643401	2014-02-04	12/432162	2009-04-29	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
DEEP DEPLETED CHANNEL MOSFET WITH MINIMIZED DOPANT FLUCTUATION AND DIFFUSION LEVELS	8647937	2014-02-11	13/533090	2012-06-26	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
CONTROL GATE	8647946	2014-02-11	12/621527	2009-11-19	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
METHODS FOR PHEET FABRICATION USING APM SOLUTIONS	8658543	2014-02-25	13/368055	2012-02-07	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
EEPROM CELL	8659067	2014-02-25	13/773261	2013-02-25	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
EEPROM CELL	8664708	2014-03-04	13/775259	2013-02-25	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted

DIELECTRIC STACK	8664711	2014-03-04	14/019508	2013-09-05	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
RRAM DEVICE WITH AN EMBEDDED SELECTOR STRUCTURE AND METHODS OF MAKING SAME	8674332	2014-03-18	13/445658	2012-04-12	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
RRAM STRUCTURE AT ST1 WITH SIL-BASED SELECTOR	8685799	2014-04-01	13/611817	2012-09-12	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
COMPACT RRAM DEVICE AND METHODS OF MAKING SAME	8698118	2014-04-15	13/408221	2012-02-29	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
MIDDLE IN-SITU DOPED SiGe JUNCTIONS FOR PMOS DEVICES ON 28 NM LOW POWER/HIGH PERFORMANCE TECHNOLOGIES USING A SILICON OXIDE ENCAPSULATION, EARLY HALO AND EXTENSION IMPLANTATIONS	8703578	2014-04-22	13/482410	2012-05-29	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
LATCH-UP FREE ESD PROTECTION	8710545	2014-04-29	13/533959	2012-06-26	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
CAPACITOR TOP PLATE OVER SOURCE/DRAIN TO FORM A 1T MEMORY DEVICE	8716081	2014-05-06	11/686475	2007-03-15	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
DEVICE WITH INTEGRATED POWER SUPPLY	8716856	2014-05-06	13/565748	2012-08-02	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
ESD-ROBUST I/O DRIVER CIRCUITS	8724271	2014-05-13	13/415178	2012-03-08	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
ESD PROTECTION DEVICE WITH A TUNABLE HOLDING VOLTAGE FOR A HIGH VOLTAGE PROGRAMMING PAD	8724272	2014-05-13	13/454340	2012-04-24	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
TOPOLOGY DENSITY AWARE FLOW (TDAF)	8726221	2014-05-13	13/527196	2012-06-19	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
FUSE SENSING CIRCUITS	8742830	2014-06-03	13/552799	2012-07-19	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
NON-VOLATILE MEMORY UTILIZING IMPACT IONIZATION AND TUNNELING AND METHOD OF MANUFACTURING THEREOF	8750037	2014-06-10	12/456440	2009-06-16	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
BACK-SIDE MONOMIM DEVICES	8750947	2014-06-24	13/430778	2012-03-27	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
NON-VOLATILE MEMORY CELL WITH HIGH BIT DENSITY	8760917	2014-06-24	13/556810	2012-07-24	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
INTEGRATED CIRCUIT WITH SELF-ALIGNED LINE AND VIA	8766454	2014-07-01	11/466018	2006-08-21	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
ESD PROTECTION DEVICE FOR CIRCUITS WITH MULTIPLE POWER DOMAINS	8767360	2014-07-01	13/482413	2012-05-29	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
LATCH-UP ROBUST PNP-TRIGGERED SCR-BASED DEVICES	8778743	2014-07-15	13/588014	2012-08-17	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
TRENCH TRANSISTOR	8786013	2014-07-22	13/939166	2013-07-10	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
DRIVER-BASED DISTRIBUTED MULTIPATH ESD SCHEME	8786990	2014-07-22	13/439455	2012-04-04	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
HIGH VOLTAGE DEVICE	8790966	2014-07-29	13/276301	2011-10-18	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
ESD-ROBUST I/O DRIVER CIRCUITS	8792219	2014-07-29	13/482423	2012-05-29	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
INTEGRATION OF GERMANIUM PHOTO DETECTOR IN CMOS PROCESSING	8802484	2014-08-12	13/747009	2013-01-22	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
METHOD FOR FORMING A PCRAM WITH LOW RESET CURRENT	8803122	2014-08-12	13/562641	2012-07-31	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
HIGH SPEED LOW POWER FUSE CIRCUIT	8803590	2014-08-12	13/558356	2012-07-26	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
MOS WITH RECESSED LIGHTLY-DOPED DRAIN	8809150	2014-08-19	13/587059	2012-08-16	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
IMAGING METHODS	8816278	2014-08-26	14/019280	2013-09-05	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
HIGH VOLTAGE DEVICE	8822291	2014-09-02	13/598605	2012-08-29	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
CD CONTROL	8836139	2014-09-16	13/655408	2012-10-18	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
ESD PROTECTION CIRCUIT	8847318	2014-09-30	13/803091	2013-03-14	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
CROSS-DOMAIN ESD PROTECTION SCHEME	8848326	2014-09-30	13/415970	2012-03-09	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
ST1 CMP UNDER POLISH MONITORING	8852968	2014-10-07	13/768870	2013-02-15	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
HIGH VOLTAGE DEVICE	8853022	2014-10-07	13/552248	2012-01-17	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
INTEGRATION OF LOW RDSON LDMOS WITH HIGH SHEET RESISTANCE POLY RESISTOR	8853764	2014-10-07	13/832682	2013-03-15	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
ESD PROTECTION CIRCUIT	8853783	2014-10-07	13/669409	2012-11-05	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
ESD PROTECTION CIRCUIT	8853784	2014-10-07	13/737964	2013-01-10	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
CRACK-ARRESTING STRUCTURE FOR THROUGH-SILICON VIAS	8860185	2014-10-14	13/357960	2012-01-25	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
ESD PROTECTION CIRCUIT	8878297	2014-11-04	13/967370	2013-08-15	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
ESD PROTECTION WITHOUT LATCH-UP	8879221	2014-11-04	13/406537	2012-02-28	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
METHOD AND APPARATUS FOR ESD CIRCUITS	8883305	2014-11-11	13/455819	2012-04-25	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted

METHODS FOR FORMING THIN FILM STORAGE MEMORY CELLS	8895397	2014-11-25	14/054084	2013-10-15	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
FIN-TYPE MEMORY	8895402	2014-11-25	13/607310	2012-09-03	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
DRY IMMERSION SCANNING EXPOSURE SYSTEM	8896810	2014-11-25	12/649212	2009-12-29	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
ETCH FAILURE PREDICTION BASED ON WAFER RESIST TOP LOSS	8898597	2014-11-25	13/835339	2013-03-15	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
RELIABLE CONTACTS	8916939	2014-12-23	13/975379	2013-08-26	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
LATE IN-SITU DOPED SIGE JUNCTIONS FOR PMOS DEVICES ON 28 NM LOW POWER/HIGH PERFORMANCE TECHNOLOGIES USING A SILICON OXIDE ENCAPSULATION, EARLY HALO AND EXTENSION IMPLANTATIONS	8936977	2015-01-20	13/482393	2012-05-29	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
BONDING METHOD USING POROSIFIED SURFACES FOR MAKING STACKED STRUCTURES	8940616	2015-01-27	13/559626	2012-07-27	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
METHOD FOR FORMING THROUGH SILICON VIA WITH WAFER BACKSIDE PROTECTION	8940637	2015-01-27	13/542256	2012-07-05	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
INTEGRATED CIRCUITS HAVING IMPROVED SPLIT-GATE NONVOLATILE MEMORY DEVICES AND METHODS FOR FABRICATION OF SAME	8945997	2015-02-03	13/929393	2013-06-27	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
SILICON-ON-INSULATOR INTEGRATED CIRCUITS WITH LOCAL OXIDATION OF SILICON AND METHODS FOR FABRICATING THE SAME	8946819	2015-02-03	13/889644	2013-05-08	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
INTEGRATION OF MEMORY, HIGH VOLTAGE AND LOGIC DEVICES	8957470	2015-02-17	13/526550	2012-06-19	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
DIELECTRIC POSTS IN METAL LAYERS	8957523	2015-02-17	13/737957	2013-01-10	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
METHOD FOR FORMING AN AIR GAP AROUND A THROUGH-SILICON VIA	8962474	2015-02-24	13/290791	2011-11-07	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
WRAP AROUND PHASE CHANGE MEMORY	8963116	2015-02-24	13/664412	2012-10-30	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
GATE DIELECTRIC PROTECTION	8964341	2015-02-24	13/457453	2012-04-26	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
RELIABLE INTERCONNECT FOR SEMICONDUCTOR DEVICE	8987134	2015-03-24	13/911095	2013-06-06	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
INTEGRATION OF HIGH VOLTAGE TRENCH TRANSISTOR WITH LOW VOLTAGE CMOS TRANSISTOR	8999769	2015-04-07	13/552607	2012-07-18	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
METHODS FOR FABRICATING INTEGRATED CIRCUITS WITH THE IMPLANTATION OF FLUORINE	8999803	2015-04-07	13/906805	2013-05-31	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
METHOD AND DEVICE FOR A SPLIT-GATE FLASH MEMORY WITH AN EXTENDED WORD GATE BELOW A CHANNEL REGION	8999828	2015-04-07	13/197367	2011-08-03	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
HIGH VOLTAGE FINNET STRUCTURE	9006055	2015-04-14	13/754065	2013-01-30	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
STRUCTURE AND METHODS OF IMPROVING RELIABILITY OF NON-VOLATILE MEMORY DEVICES	9012290	2015-04-21	14/448691	2014-07-31	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
SANDWICH DAMASCENE RESISTOR	9012293	2015-04-21	13/738604	2013-01-10	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
SURFACE TOPOGRAPHY ENHANCED PATTERN (STEP) MATCHING	9026954	2015-05-05	14/157530	2014-01-17	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
FIN SELECTOR WITH GATED RRAM	9029231	2015-05-12	13/795894	2013-03-12	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
LAYOUT FOR RETICLE AND WAFER SCANNING ELECTRON MICROSCOPE REGISTRATION OR OVERLAY MEASUREMENTS	9029855	2015-05-12	13/835147	2013-03-15	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
LITHO SCANNER ALIGNMENT SIGNAL IMPROVEMENT	9034720	2015-05-19	13/588018	2012-08-17	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
LATCH-UP IMMUNITY INLDMOS	9040367	2015-05-26	13/590561	2012-08-21	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
SEMICONDUCTOR DEVICES INCLUDING AVALANCHE PHOTODETECTOR DIODES INTEGRATED ON WAVEGUIDES AND METHODS FOR FABRICATING THE SAME	9048371	2015-06-02	14/045180	2013-10-03	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
SYSTEM AND METHODS FOR OPC MODEL ACCURACY MANAGEMENT AND DISPOSITION	9053269	2015-06-09	14/144491	2013-12-30	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
RELIABLE INTERCONNECT FOR SEMICONDUCTOR DEVICE	9054107	2015-06-09	14/094717	2013-12-02	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted

HIGH VOLTAGE TRENCH TRANSISTOR	9054133	2015-06-09	13/948178	2013-07-23	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
METHODS FOR FABRICATING INTEGRATED CIRCUITS WITH A HIGH-VOLTAGE MOSFET	9054135	2015-06-09	13/955637	2013-07-31	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
HIGH ION AND LOW SUB-THRESHOLD SWING TUNNELING TRANSISTOR	9054191	2015-06-09	14/055893	2013-10-17	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
COMPACT CHARGE TRAP MULTI-TIME PROGRAMMABLE MEMORY	9054209	2015-06-09	13/587072	2012-08-16	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
FALSE-TRIGGERED IMMUNITY AND RELIABILITY-FREE ESD PROTECTION DEVICE	9059582	2015-06-16	13/782395	2013-03-01	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
TOPOGRAPHY DRIVEN OPC AND LITHOGRAPHY FLOW	9064084	2015-06-23	14/260295	2014-04-24	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
ARC RESIDUE-FREE ETCHING	9064848	2015-06-23	14/531650	2014-11-03	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
STRESS ENHANCED HIGH VOLTAGE DEVICE	9064894	2015-06-23	13/569190	2012-08-08	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
DEEP DEPLETED CHANNEL MOSFET WITH MINIMIZED DOPANT FLUCTUATION AND DIFFUSION LEVELS	9064951	2015-06-23	14/177983	2014-02-11	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
METHODS FOR FABRICATING INTEGRATED CIRCUITS USING CHEMICAL MECHANICAL POLISHING	9076735	2015-07-07	14/092217	2013-11-27	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
NONVOLATILE MEMORY	9076962	2015-07-07	14/162721	2014-01-23	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
DESIGN-FOR-MANUFACTURING DESIGN-ENABLED-MANUFACTURING (DFM-DEM) PROACTIVE INTEGRATED MANUFACTURING FLOW	9081919	2015-07-14	14/210418	2014-03-13	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
INTEGRATED CIRCUITS WITH LATERALLY DIFFUSED METAL OXIDE SEMICONDUCTOR STRUCTURES	9082846	2015-07-14	13/870771	2013-04-25	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
CONTROL GATE	9087813	2015-07-21	14/174804	2014-02-06	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
GROUNDING OF SILICON-ON-INSULATOR STRUCTURE	9087906	2015-07-21	14/505483	2014-10-02	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
COMPACT LOCALIZED RRAM CELL STRUCTURE REALIZED BY SPACER TECHNOLOGY	9087988	2015-07-21	14/633508	2015-02-27	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
METHOD AND APPARATUS FOR EMBEDDED NVM UTILIZING AN RRAM PROCESS	9093551	2015-07-28	13/543340	2012-07-06	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
HIGH VOLTAGE DEVICE	9099434	2015-08-04	14/340578	2014-07-25	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
INTEGRATED CIRCUIT COMPRISING ON-CHIP RESISTORS WITH PLURALITY OF FIRST AND SECOND TERMINALS COUPLED TO THE RESISTOR BODY	9105502	2015-08-11	13/910077	2013-06-04	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
LASER-ENHANCED CHEMICAL ETCHING OF NANOTIPS	9128117	2015-09-08	14/097211	2013-12-04	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
LATCH-UP ROBUST SCR-BASED DEVICES	9130010	2015-09-08	13/483322	2012-05-30	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
HIGH GAIN DEVICE	9136179	2015-09-15	13/655431	2012-10-18	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
LATCH UP DETECTION	9154122	2015-10-06	13/406534	2012-02-28	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
NON-VOLATILE MEMORY CELL ARRAYS AND METHODS OF FABRICATING SEMICONDUCTOR DEVICES	9165610	2015-10-20	14/318766	2014-06-30	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
MULTI-LEVEL MEMORY CELLS AND METHODS FOR FORMING MULTILEVEL MEMORY CELLS	9171858	2015-10-27	14/143118	2013-12-30	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
FINFET WITH STRESSORS	9171953	2015-10-27	13/947118	2013-07-22	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
METHOD FOR FORMING A PGRAM WITH LOW RESET CURRENT	9178138	2015-11-03	14/324703	2014-07-07	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
RRAM STRUCTURE AT STI WITH SI-BASED SELECTOR	9184215	2015-11-10	14/179655	2014-02-13	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
HIGH VOLTAGE DEVICE	9184283	2015-11-10	14/503424	2014-10-01	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
STACKABLE NON-VOLATILE MEMORY	9196356	2015-11-24	13/802899	2013-03-14	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
INTEGRATED CIRCUITS WITH STRESSED SEMICONDUCTOR ON-INSULATOR (SOI) BODY CONTACTS AND METHODS FOR FABRICATING THE SAME	9196544	2015-11-24	14/213288	2014-03-14	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
ESD PROTECTION CIRCUIT	9196719	2015-11-24	13/967372	2013-08-15	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
WRAP AROUND PHASE CHANGE MEMORY	9196830	2015-11-24	14/624581	2015-02-18	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
INTEGRATED CIRCUITS WITH MEMORY CELLS AND METHODS OF MANUFACTURING THE SAME	9209275	2015-12-08	14/445279	2014-07-29	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted

SEMICONDUCTOR DEVICES INCLUDING PHOTODETECTORS INTEGRATED ON WAVEGUIDES AND METHODS FOR FABRICATING THE SAME	9213137	2015-12-15	13/941191	2013-07-12	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
DEVICE WITH ISOLATION BUFFER	9214557	2015-12-15	14/173821	2014-02-06	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
RESISTIVE NON-VOLATILE MEMORY	9218875	2015-12-22	13/802841	2013-03-14	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
1DMOS WITH IMPROVED BREAKDOWN VOLTAGE	9219147	2015-12-22	14/271217	2014-05-06	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
METALLIZATION LAYERS CONFIGURED FOR REDUCED PARASITIC CAPACITANCE	9230913	2016-01-05	14/457155	2014-08-12	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
EFFICIENT OPTICAL PROXIMITY CORRECTION REPAIR FLOW METHOD AND APPARATUS	9250538	2016-02-02	14/146771	2014-01-03	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
INTEGRATED CIRCUITS INCLUDING A RESISTANCE ELEMENT AND GATE-LAST TECHNIQUES FOR FORMING THE INTEGRATED CIRCUITS	9252142	2016-02-02	14/141530	2013-12-27	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
FLOATING BODY CELL	9252270	2016-02-02	13/713393	2012-12-13	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
SPLIT GATE EMBEDDED MEMORY TECHNOLOGY AND METHOD OF MANUFACTURING THEREOF	9257554	2016-02-09	14/458265	2014-08-13	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
DOUBLE GATED FLASH MEMORY	9263132	2016-02-16	13/206780	2011-08-10	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
RELIABLE CONTACTS	9263322	2016-02-16	14/029820	2013-09-18	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
TWO-BITS PER CELL STRUCTURE WITH SPIN TORQUE TRANSFER MAGNETIC RANDOM ACCESS MEMORY AND METHODS FOR FABRICATING THE SAME	9263665	2016-02-16	14/565536	2014-12-10	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
HYBRID TSV AND METHOD FOR FORMING THE SAME	9269651	2016-02-23	14/631240	2015-02-25	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
GUARD RING FOR MEMORY ARRAY	9269766	2016-02-23	14/490629	2014-09-18	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
BONDING METHOD USING POROSIFIED SURFACES FOR MAKING STACKED STRUCTURES	9272899	2016-03-01	14/591896	2015-01-07	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
THREE DIMENSIONAL BRAM DEVICE, AND METHODS OF MAKING SAME	9276041	2016-03-01	13/423793	2012-03-19	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
SCALABLE AND RELIABLE NON-VOLATILE MEMORY CELL	9276206	2016-03-01	14/210379	2014-03-13	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
METHOD TO TUNE NARROW WIDTH EFFECT WITH RAISED S/D STRUCTURE	9281308	2016-03-08	14/338012	2014-07-22	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
INTEGRATED CIRCUITS WITH FINFET NONVOLATILE MEMORY	9312268	2016-04-12	14/474578	2014-09-02	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
SEMICONDUCTOR WAFERS EMPLOYING A FIXED-COORDINATE METROLOGY SCHEME AND METHODS FOR FABRICATING INTEGRATED CIRCUITS USING THE SAME	9318399	2016-04-19	14/134328	2013-12-19	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
GROSS TECHNOLOGY RETICLE (CTR) OR MULTI-LAYER RETICLE (MLR) CDU, REGISTRATION, AND OVERLAY TECHNIQUES	9341961	2016-05-17	13/839894	2013-03-15	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
ESD PROTECTION FOR HIGH VOLTAGE APPLICATIONS	9343413	2016-05-17	13/474738	2012-05-18	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
METHODS FOR FABRICATING FLASH MEMORY CELLS AND INTEGRATED CIRCUITS HAVING FLASH MEMORY CELLS EMBEDDED WITH LOGIC	9343466	2016-05-17	14/584973	2014-12-29	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
MEMORY CELL WITH DECOUPLED CHANNELS	9343472	2016-05-17	14/574270	2014-12-17	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
SPLIT GATE EMBEDDED MEMORY TECHNOLOGY AND MANUFACTURING METHOD THEREOF	9343537	2016-05-17	14/177164	2014-02-10	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
FIELD EFFECT TRANSISTOR WITH SELF-ADJUSTING THRESHOLD VOLTAGE	9343587	2016-05-17	13/774731	2013-02-22	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
MAGNETIC MEMORY DEVICE AND METHOD OF FORMING THEREOF	9343662	2016-05-17	14/483171	2014-09-11	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted

METHODS FOR FABRICATING INTEGRATED CIRCUITS WITH SPIN TORQUE TRANSFER MAGNETIC RANDOM ACCESS MEMORY (STT-MRAM) INCLUDING A PASSIVATION LAYER FORMED ALONG LATERAL SIDEWALLS OF A MAGNETIC TUNNEL JUNCTION OF THE STT-MRAM	9349772	2016-05-24	14/261543	2014-04-25	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
LOW VOLTAGE SEMICONDUCTOR MEMORY DEVICE AND METHOD OF OPERATION	9361992	2016-06-07	14/586494	2014-12-30	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
METHODS FOR FABRICATING INTEGRATED CIRCUITS AND COMPONENTS THEREOF	9362128	2016-06-07	14/258154	2014-04-22	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
INTEGRATED CIRCUITS HAVING IMPROVED SPLIT-GATE NONVOLATILE MEMORY DEVICES AND METHODS FOR FABRICATION OF SAME	9362297	2016-06-07	14/584896	2014-12-29	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
SIMPLE AND COST-FREE MTP STRUCTURE	9362374	2016-06-07	14/253878	2014-04-16	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
EFFICIENT INTEGRATION OF CMOS WITH POLY RESISTOR	9368488	2016-06-14	14/022183	2013-09-09	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
SANDWICH DAMASCENE RESISTOR	9373674	2016-06-21	14/639524	2015-03-05	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
METHODS FOR FABRICATING DEVICE SUBSTRATES AND INTEGRATED CIRCUITS	9390962	2016-07-12	14/639645	2015-03-05	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
INTEGRATED INDUCTOR AND MAGNETIC RANDOM ACCESS MEMORY DEVICE	9397139	2016-07-19	14/862174	2015-09-23	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
VERTICAL RANDOM ACCESS MEMORY WITH SELECTORS	9397146	2016-07-19	14/277808	2014-05-15	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
WAFER STACK PROTECTION SEAL	9406577	2016-08-02	14/201935	2014-03-10	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
LATCH-UP IMMUNITY NIDMOS	9406667	2016-08-02	14/696986	2015-04-27	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
SIMPLE AND COST-FREE MTP STRUCTURE	9406764	2016-08-02	14/684298	2015-04-10	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
SINGLE GROOVED POLISHING PAD	9421669	2016-08-23	13/950298	2013-07-25	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
METHODS FOR FABRICATING INTEGRATED CIRCUITS WITH A HIGH-VOLTAGE MOSFET	9431408	2016-08-30	14/705751	2015-05-06	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
TRANSISTOR DEVICES HAVING AN ANTI-FUSE CONFIGURATION AND METHODS OF FORMING THE SAME	9431497	2016-08-30	13/899150	2013-05-21	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
METHODS FOR FABRICATING INTEGRATED CIRCUITS HAVING DEVICE CONTACTS	9443761	2016-09-13	14/445520	2014-07-29	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
BACK-GATED NON-VOLATILE MEMORY CELL	9444041	2016-09-13	14/144554	2013-12-31	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
INTEGRATED CIRCUITS WITH CONTACTS THROUGH A BURIED OXIDE LAYER AND METHODS OF PRODUCING THE SAME	9472512	2016-10-18	14/883100	2015-10-14	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
HIGH GAIN DEVICE	9478657	2016-10-25	14/852639	2015-09-14	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
INTEGRATED CIRCUIT STRUCTURES WITH SPIN TORQUE TRANSFER MAGNETIC RANDOM ACCESS MEMORY HAVING INCREASED MEMORY CELL DENSITY AND METHODS FOR FABRICATING THE SAME	9484530	2016-11-01	14/537966	2014-11-11	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
METHODS AND MEDIA FOR LOT DISPATCH PRIORITY	9488975	2016-11-08	14/132281	2013-12-18	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
BANDGAP REFERENCE VOLTAGE GENERATOR CIRCUITS	9489004	2016-11-08	14/292249	2014-05-30	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
RELIABLE INTERCONNECT INTEGRATION SCHEME	9490165	2016-11-08	12/982862	2010-12-30	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
SETUP FOR MULTIPLE CROSS-SECTION SAMPLE PREPARATION	9496187	2016-11-15	14/084636	2013-11-20	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
PATTERN CLASSIFICATION BASED PROXIMITY CORRECTIONS FOR RETICLE FABRICATION	9500945	2016-11-22	14/734033	2015-06-09	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
CMP HEAD STRUCTURE WITH RETAINING RING	9511470	2016-12-06	15/005034	2016-01-25	GLOBALFOUNDRIES Singapore PTE Ltd.	Granted
CMP HEAD STRUCTURE WITH RETAINING RING	9511474	2016-12-06	15/005029	2016-01-25	GLOBALFOUNDRIES Singapore PTE Ltd.	Granted
SIMPLE AND COST-FREE MTP STRUCTURE	9515152	2016-12-06	14/684311	2015-04-10	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
PLANAR PASSIVATION FOR PADS	9520371	2016-12-13	14/525154	2014-10-27	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
3D HIGH VOLTAGE CHARGE PUMP	9520506	2016-12-13	14/338354	2014-07-23	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
DIGITAL PHASE LOCKED LOOP (PLL) SYSTEM WITH FREQUENCY BAND JUMP IN LOCK MODE	9520885	2016-12-13	14/958330	2015-12-03	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted

SEMICONDUCTOR DEVICE INCLUDING AN N-WELL STRUCTURE	9525061	2016-12-20	14/794843	2015-07-09	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
INTEGRATED CIRCUITS WITH MEMORY CELLS AND METHODS OF MANUFACTURING THE SAME	9537092	2017-01-03	14/665013	2015-03-23	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
INTEGRATED MEMS-CMOS DEVICES AND METHODS FOR FABRICATING MEMS DEVICES AND CMOS DEVICES	9546090	2017-01-17	14/826449	2015-08-14	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
INTEGRATED CIRCUITS HAVING NICKEL SILICIDE CONTACTS AND METHODS FOR FABRICATING THE SAME	9548371	2017-01-17	14/259460	2014-04-23	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
DIGITAL PHASE LOCKED LOOP (PLL) SYSTEM AND METHOD WITH PHASE TRACKING	9548748	2017-01-17	14/867289	2015-09-28	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
INTEGRATED MEMS PRESSURE SENSOR AND MEMS INERTIAL SENSOR	9550668	2017-01-24	14/834498	2015-08-25	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
MAGNETIC TUNNEL JUNCTION STACK ALIGNMENT SCHEME	9553129	2017-01-24	14/862173	2015-09-23	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
DIGITALLY CONTROLLED OSCILLATOR (DCO) FOR A PHASE LOCKED LOOP (PLL) SYSTEM	9559709	2017-01-31	14/867298	2015-09-28	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
EQUIVALENT FUSE CIRCUIT FOR A ONE-TIME PROGRAMMABLE READ-ONLY MEMORY ARRAY	9564243	2017-02-07	14/259687	2014-04-23	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
DUAL ENCAPSULATION INTEGRATION SCHEME FOR FABRICATING INTEGRATED CIRCUITS WITH MAGNETIC RANDOM ACCESS MEMORY STRUCTURES	9564575	2017-02-07	14/586415	2014-12-30	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
HIGH VOLTAGE TRENCH TRANSISTOR	9570545	2017-02-14	14/692768	2015-04-22	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
METHODS FOR EVALUATING STRAIN OF CRYSTALLINE DEVICES	9581506	2017-02-28	15/084834	2016-03-30	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
LOW POWER MEMORY CELL WITH HIGH SENSING MARGIN	9583167	2017-02-28	14/698882	2015-04-29	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
DRIVE CURRENT ENHANCEMENT FOR INTEGRATED CIRCUIT MEMORY STRUCTURES	9583168	2017-02-28	14/985244	2015-12-30	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
DEVICES WITH EMBEDDED NON-VOLATILE MEMORY AND METAL GATES AND METHODS FOR FABRICATING THE SAME	9583499	2017-02-28	14/952536	2015-11-25	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
ENERGY EFFICIENT THREE-TERMINAL VOLTAGE CONTROLLED MEMORY CELL	9589616	2017-03-07	14/927500	2015-10-30	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
SIMPLE AND COST-FREE MTP STRUCTURE	9608081	2017-03-28	14/684305	2015-04-10	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
METHODS FOR EVALUATING SEMICONDUCTOR DEVICE STRUCTURES	9613874	2017-04-04	14/985178	2015-12-30	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
CMP WAFER EDGE CONTROL OF DIELECTRIC	9627219	2017-04-18	14/253874	2014-04-16	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
INTEGRATED CIRCUITS WITH ALIGNMENT MARKS AND METHODS OF PRODUCING THE SAME	9633882	2017-04-25	14/868645	2015-09-29	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
VOLTAGE CONTROLLED SPIN SWITCHES FOR LOW POWER APPLICATIONS	9646666	2017-05-09	15/009751	2016-01-28	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
INTEGRATED CIRCUITS WITH CAPACTORS AND METHODS FOR PRODUCING THE SAME	9646963	2017-05-09	15/181446	2016-06-14	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
NON-VOLATILE RESISTIVE RANDOM ACCESS MEMORY CROSSBAR DEVICES WITH MAXIMIZED MEMORY ELEMENT DENSITY AND METHODS OF FORMING THE SAME	9647035	2017-05-09	14/858387	2015-09-18	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
STT-MRAM BITCELL FOR EMBEDDED FLASH APPLICATIONS	9653137	2017-05-16	15/095170	2016-04-11	GLOBALFOUNDRIES Singapore PTE Ltd.	Granted
METHODS FOR FABRICATING INTEGRATED CIRCUITS WITH LOW, MEDIUM, AND/OR HIGH VOLTAGE TRANSISTORS ON AN EXTREMELY THIN SILICON-ON-INSULATOR SUBSTRATE	9653365	2017-05-16	15/092888	2016-04-08	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
PROGRAMMABLE INTEGRATED CIRCUITS AND METHODS OF FORMING THE SAME	9659943	2017-05-23	15/063963	2016-03-08	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
LOW COST HIGH PERFORMANCE EEPROM DEVICE	9659947	2017-05-23	14/985450	2015-12-31	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
INTEGRATED CIRCUITS WITH LATERALLY DIFFUSED METAL OXIDE SEMICONDUCTOR STRUCTURES AND METHODS FOR FABRICATING THE SAME	9660020	2017-05-23	14/285774	2014-05-23	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted

INTEGRATION OF SPINTRONIC DEVICES WITH MEMORY DEVICE	9660183	2017-05-23	15/052796	2016-02-24	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
HIGH THERMAL BUDGET MAGNETIC MEMORY	9666640	2017-05-30	15/071180	2016-03-15	GLOBALFOUNDRIES Singapore PTE Ltd.	Granted
INTEGRATED CIRCUIT STRUCTURES WITH SPIN TORQUE TRANSFER MAGNETIC RANDOM ACCESS MEMORY AND METHODS FOR FABRICATING THE SAME	9673388	2017-06-06	14/518696	2014-10-20	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
SILICON-ON-INSULATOR INTEGRATED CIRCUIT DEVICES WITH BODY CONTACT STRUCTURES AND METHODS FOR FABRICATING THE SAME	9685364	2017-06-20	14/478211	2014-09-05	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
INTEGRATED CIRCUITS WITH ELECTROSTATIC DISCHARGE PROTECTION	9698139	2017-07-04	14/985623	2015-12-31	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
HIGH VOLTAGE DEVICE WITH LOW RDSON	9698260	2017-07-04	14/985455	2015-12-31	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
ULTRA LOW VOLTAGE RING OSCILLATOR WITH REDUNDANT INVERTER	9698763	2017-07-04	14/985457	2015-12-31	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
INTEGRATED CIRCUITS WITH OPTICAL MODULATORS AND PHOTODETECTORS AND METHODS FOR PRODUCING THE SAME	9711662	2017-07-18	15/134542	2016-04-21	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
CREATION OF WIDE BAND GAP MATERIAL FOR INTEGRATION TO SOI THEREOF	9721969	2017-08-01	14/788703	2015-06-30	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
SEMICONDUCTOR CHIPS WITH SEAL RINGS AND ELECTRONIC TEST STRUCTURES, SEMICONDUCTOR WAFERS INCLUDING THE SEMICONDUCTOR CHIPS, AND METHODS FOR FABRICATING THE SAME	9728474	2017-08-08	15/278257	2016-09-28	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
RESISTIVE MEMORY DEVICE	9728721	2017-08-08	14/340582	2014-07-25	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
ONE QUARTER WAVELENGTH TRANSMISSION LINE BASED ELECTROSTATIC DISCHARGE (ESD) PROTECTION FOR INTEGRATED CIRCUITS	9728957	2017-08-08	14/703845	2015-05-04	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
HIGH SENSING MARGIN MAGNETIC RESISTIVE MEMORY DEVICE IN WHICH A MEMORY CELL READ AND WRITE SELECT TRANSISTORS TO PROVIDE DIFFERENT READ AND WRITE PATHS	9734881	2017-08-15	15/008475	2016-01-28	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
HIGH VOLTAGE DEVICE WITH LOW RDSON	9768054	2017-09-19	14/951523	2015-11-25	GLOBALFOUNDRIES Singapore PTE Ltd.	Granted
HIGH DENSITY MULTI-TIME PROGRAMMABLE RESISTIVE MEMORY DEVICES AND METHOD OF FORMING THEREOF	9768231	2017-09-19	15/042157	2016-02-12	GLOBALFOUNDRIES Singapore PTE Ltd.	Granted
DEVICE WITH/OUT ZERO MARK LAYER	9773702	2017-09-26	14/981873	2015-12-28	GLOBALFOUNDRIES Singapore PTE Ltd.	Granted
SELF-ALIGNED HIGH VOLTAGE LDMOS	9780207	2017-10-03	14/983583	2015-12-30	GLOBALFOUNDRIES Singapore PTE Ltd.	Granted
GROSS TECHNOLOGY RETICLE (CTR) OR MULTILAYER RETICLE (MLR) CDU, REGISTRATION, AND OVERLAY TECHNIQUES	9798238	2017-10-24	15/054326	2016-02-26	GLOBALFOUNDRIES Singapore PTE Ltd.	Granted
LOW COST HIGH PERFORMANCE EEPROM DEVICE	9806087	2017-10-31	15/602084	2017-05-22	GLOBALFOUNDRIES Singapore PTE Ltd.	Granted
INTERPOSERS FOR INTEGRATED CIRCUITS WITH MULTIPLE-TIME PROGRAMMING AND METHODS FOR MANUFACTURING THE SAME	9806128	2017-10-31	14/719467	2015-05-22	GLOBALFOUNDRIES Singapore PTE Ltd.	Granted
VOLTAGE-TUNABLE MAGNETIC DEVICES FOR COMMUNICATION APPLICATIONS	9817088	2017-11-14	15/075088	2016-03-18	GLOBALFOUNDRIES Singapore PTE Ltd.	Granted
SELECTOR DEVICE FOR A NON-VOLATILE MEMORY CELL	9883125	2018-01-30	15/040981	2016-02-10	GLOBALFOUNDRIES Singapore PTE Ltd.	Granted
INTEGRATED CIRCUITS WITH GAPS	9899527	2018-02-20	14/985607	2015-12-31	GLOBALFOUNDRIES Singapore PTE Ltd.	Granted
MAGNETIC MEMORY WITH TUNNELING MAGNETORESISTANCE ENHANCED SPACER LAYER	9923137	2018-03-20	15/060634	2016-03-04	GLOBALFOUNDRIES Singapore PTE Ltd.	Granted
DEFECT ISOLATION METHODS AND SYSTEMS	9958502	2018-05-01	15/045276	2016-02-17	GLOBALFOUNDRIES Singapore PTE Ltd.	Granted
MAGNETIC MEMORY WITH HIGH THERMAL BUDGET	9972774	2018-05-15	15/057109	2016-02-29	GLOBALFOUNDRIES Singapore PTE Ltd.	Granted
INTEGRATED MAGNETIC RANDOM ACCESS MEMORY WITH LOGIC DEVICE HAVING LOW-K INTERCONNECTS	9972775	2018-05-15	15/063544	2016-03-08	GLOBALFOUNDRIES Singapore PTE Ltd.	Granted

INTEGRATED CIRCUITS WITH CAPACITORS AND METHODS FOR PRODUCING THE SAME	9978883	2018-05-22	15/472625	2017-03-29	GLOBALFOUNDRIES Singapore PTE Ltd.	Granted
INTEGRATED CIRCUITS HAVING AN ANTI-FUSE DEVICE AND METHODS OF FORMING THE SAME	10032783	2018-07-24	14/927981	2015-10-30	GLOBALFOUNDRIES Singapore PTE Ltd.	Granted
LD MOS WITH IMPROVED BREAKDOWN VOLTAGE AND WITH NON-UNIFORMED GATE DIELECTRIC AND GATE ELECTRODE	10032902	2018-07-24	14/713819	2015-05-15	GLOBALFOUNDRIES Singapore PTE Ltd.	Granted
INTEGRATED CIRCUITS WITH HIGH VOLTAGE TRANSISTORS AND METHODS FOR PRODUCING THE SAME	10032905	2018-07-24	15/468188	2017-03-24	GLOBALFOUNDRIES Singapore PTE Ltd.	Granted
INTEGRATED CIRCUITS WITH MAGNETIC TUNNEL JUNCTIONS AND METHODS FOR PRODUCING THE SAME	10032980	2018-07-24	15/443799	2017-02-27	GLOBALFOUNDRIES Singapore PTE Ltd.	Granted
INTEGRATED CIRCUITS WITH DEEP AND ULTRA SHALLOW TRENCH ISOLATIONS AND METHODS FOR FABRICATING THE SAME	10062710	2018-08-28	15/151564	2016-05-11	GLOBALFOUNDRIES Singapore PTE Ltd.	Granted
THYRISTOR RANDOM ACCESS MEMORY	N/A	N/A	14/277068	2014-05-14	GLOBALFOUNDRIES Singapore Pte Ltd.	Pending
INTERPOSERS FOR INTEGRATED CIRCUITS WITH ONE-TIME PROGRAMMING AND METHODS FOR MANUFACTURING THE SAME	N/A	N/A	14/719499	2015-05-22	GLOBALFOUNDRIES Singapore PTE Ltd.	Pending
PHOTONIC DEVICES WITH THROUGH DIELECTRIC VIA INTERPOSER FOR FABRICATING THE SAME	N/A	N/A	14/830743	2015-08-20	GLOBALFOUNDRIES Singapore PTE Ltd.	Pending
INTEGRATED CIRCUITS HAVING TUNNEL TRANSISTORS AND METHODS FOR FABRICATING THE SAME	N/A	N/A	14/844522	2015-09-03	GLOBALFOUNDRIES Singapore PTE Ltd.	Pending
CRACK STOP LAYER IN INTER METAL LAYERS	N/A	N/A	14/956401	2015-12-02	GLOBALFOUNDRIES Singapore PTE Ltd.	Pending
SEMICONDUCTOR DEVICE WITH IMPROVED NARROW WIDTH EFFECT AND METHOD OF MAKING THEREOF	N/A	N/A	14/981980	2015-12-29	GLOBALFOUNDRIES Singapore PTE Ltd.	Pending
INTEGRATED LED AND LED DRIVER UNITS AND METHODS FOR FABRICATING THE SAME	N/A	N/A	14/985220	2015-12-30	GLOBALFOUNDRIES Singapore PTE Ltd.	Pending
BRAM WITH METAL-INSULATOR-TRANSITION MATERIAL	N/A	N/A	15/012763	2016-02-01	GLOBALFOUNDRIES Singapore PTE Ltd.	Pending
SPLIT GATE EMBEDDED MEMORY TECHNOLOGY AND METHOD OF MANUFACTURING THEREOF	10079316	2018-09-18	15/015115	2016-02-03	GLOBALFOUNDRIES Singapore PTE Ltd.	Granted
THREE-AXIS MONOLITHIC MEMS ACCELEROMETERS AND METHODS FOR FABRICATING SAME	N/A	N/A	15/040681	2016-02-10	GLOBALFOUNDRIES Singapore PTE Ltd.	Pending
SILICON CONTROLLED RECTIFIER (SCR) BASED ESD PROTECTION DEVICE	N/A	N/A	15/057007	2016-02-29	GLOBALFOUNDRIES Singapore PTE Ltd.	Pending
MRAM CHIP MAGNETIC SHIELDING	N/A	N/A	15/080562	2016-03-24	GLOBALFOUNDRIES Singapore PTE Ltd.	Pending
STORAGE LAYER FOR MAGNETIC MEMORY WITH HIGH THERMAL STABILITY	N/A	N/A	15/081971	2016-03-28	GLOBALFOUNDRIES Singapore PTE Ltd.	Pending
INTEGRATED CIRCUIT ELECTROSTATIC DISCHARGE PROTECTION	N/A	N/A	15/132563	2016-04-19	GLOBALFOUNDRIES Singapore PTE Ltd.	Pending
INTEGRATED CIRCUIT ELECTROSTATIC DISCHARGE PROTECTION	N/A	N/A	15/135585	2016-04-22	GLOBALFOUNDRIES Singapore PTE Ltd.	Pending
INTEGRATED CIRCUITS WITH SELECTIVELY STRAINED DEVICE REGIONS AND METHODS FOR FABRICATING SAME	N/A	N/A	15/140863	2016-04-28	GLOBALFOUNDRIES Singapore PTE Ltd.	Granted
INTEGRATED CIRCUITS HAVING SHIELDED MEMS DEVICES AND METHODS FOR FABRICATING SHIELDED MEMS DEVICES	N/A	N/A	15/140906	2016-04-28	GLOBALFOUNDRIES Singapore PTE Ltd.	Pending
INTEGRATED CIRCUITS AND METHODS FOR FABRICATING INTEGRATED CIRCUITS WITH MAGNETIC TUNNEL JUNCTION (MTJ) STRUCTURES	N/A	N/A	15/383122	2016-12-19	GLOBALFOUNDRIES Singapore PTE Ltd.	Pending
INTEGRATED CIRCUITS INCLUDING MAGNETIC RANDOM ACCESS MEMORY STRUCTURES AND METHODS FOR FABRICATING THE SAME	N/A	N/A	15/392262	2016-12-28	GLOBALFOUNDRIES Singapore PTE Ltd.	Pending
INTEGRATED TWO-TERMINAL DEVICE WITH LOGIC DEVICE FOR EMBEDDED APPLICATION	N/A	N/A	15/393200	2016-12-28	GLOBALFOUNDRIES Singapore PTE Ltd.	Pending
METHODS FOR REMOVAL OF HARD MASK	N/A	N/A	15/394851	2016-12-30	GLOBALFOUNDRIES Singapore PTE Ltd.	Pending

TRANSISTOR WITH SOURCE-DRAIN SILICIDE PULLBACK	N/A	N/A	N/A	15/402150	2017-01-09	GLOBALFOUNDRIES Singapore PTE Ltd.	Pending
HALL ELEMENT FOR 3-D SENSING AND METHOD FOR PRODUCING THE SAME	N/A	N/A	N/A	15/402799	2017-01-10	GLOBALFOUNDRIES Singapore PTE Ltd.	Pending
INTEGRATED MEMS-CMOS DEVICES AND INTEGRATED CIRCUITS WITH MEMS DEVICES AND CMOS DEVICES	N/A	N/A	N/A	15/405911	2017-01-13	GLOBALFOUNDRIES Singapore PTE Ltd.	Pending
COMPACT OT/PMIP TECHNOLOGY	N/A	N/A	N/A	15/410848	2017-01-20	GLOBALFOUNDRIES Singapore PTE Ltd.	Pending
RELIABLE PAD INTERCONNECTS	N/A	N/A	N/A	15/412067	2017-01-23	GLOBALFOUNDRIES Singapore PTE Ltd.	Pending
RELIABLE PASSIVATION FOR INTEGRATED CIRCUITS	N/A	N/A	N/A	15/429198	2017-02-10	GLOBALFOUNDRIES Singapore PTE Ltd.	Pending
COMPACT AND RELIABLE CHANGEABLE NEGATIVE VOLTAGE TRANSMISSION CIRCUIT	N/A	N/A	N/A	15/431796	2017-02-14	GLOBALFOUNDRIES Singapore PTE Ltd.	Pending
COMPACT AND RELIABLE CHANGEABLE NEGATIVE VOLTAGE TRANSMISSION CIRCUIT	N/A	N/A	N/A	15/431796	2017-02-14	GLOBALFOUNDRIES Singapore PTE Ltd.	Pending
METHOD AND SYSTEM FOR DETECTING A COOLANT LEAK IN A DRY PROCESS CHAMBER WAFER CHUCK	N/A	N/A	N/A	15/432925	2017-02-15	GLOBALFOUNDRIES Singapore PTE Ltd.	Pending
DEVICE ALIGNMENT MARK USING A PLANARIZATION PROCESS STRAP LAYOUT FOR NON-VOLATILE MEMORY DEVICE	N/A	N/A	N/A	15/432933	2017-02-15	GLOBALFOUNDRIES Singapore PTE Ltd.	Pending
SEAL RING FOR WAFER LEVEL PACKAGE	10103156	2018-10-16	N/A	15/434072	2017-02-16	GLOBALFOUNDRIES Singapore PTE Ltd.	Granted
INTEGRATED CIRCUITS WITH MAGNETIC TUNNEL JUNCTIONS AND METHODS FOR PRODUCING THE SAME	N/A	N/A	N/A	15/434076	2017-02-16	GLOBALFOUNDRIES Singapore PTE Ltd.	Pending
INTEGRATED CIRCUITS WITH MAGNETIC TUNNEL JUNCTIONS AND METHODS FOR PRODUCING THE SAME	N/A	N/A	N/A	15/443741	2017-02-27	GLOBALFOUNDRIES Singapore PTE Ltd.	Pending
INTEGRATED HALL EFFECT SENSORS WITH VOLTAGE CONTROLLABLE SENSITIVITY	N/A	N/A	N/A	15/470936	2017-03-28	GLOBALFOUNDRIES Singapore PTE Ltd.	Pending
METHODS FOR FABRICATING ELECTRONIC DEVICES INCLUDING SUBSTANTIALLY HERMETICALLY SEALED CAVITIES AND GETTER FILMS	N/A	N/A	N/A	15/634535	2017-06-27	GLOBALFOUNDRIES Singapore PTE Ltd.	Pending
HIGH VOLTAGE DEVICE WITH LOW RDSON	N/A	N/A	N/A	15/640613	2017-07-03	GLOBALFOUNDRIES Singapore PTE Ltd.	Pending
CREATION OF WIDE BAND GAP MATERIAL FOR INTEGRATION TO SOI THEREOF	N/A	N/A	N/A	15/665367	2017-07-31	GLOBALFOUNDRIES Singapore PTE Ltd.	Pending
RESISTIVE MEMORY DEVICE	N/A	N/A	N/A	15/669990	2017-08-07	GLOBALFOUNDRIES Singapore PTE Ltd.	Pending
LOW POWER EMBEDDED ONE-TIME PROGRAMMABLE (OTP) STRUCTURES	N/A	N/A	N/A	15/674558	2017-08-11	GLOBALFOUNDRIES Singapore PTE Ltd.	Pending
HIGH DENSITY MULTI-TIME PROGRAMMABLE RESISTIVE MEMORY DEVICES AND METHOD OF FORMING THEREOF	N/A	N/A	N/A	15/705251	2017-09-14	GLOBALFOUNDRIES Singapore PTE Ltd.	Pending
DEVICE WITHOUT ZERO MARK LAYER	N/A	N/A	N/A	15/710854	2017-09-21	GLOBALFOUNDRIES Singapore PTE Ltd.	Pending
FIN SELECTOR WITH GATED RRAM	N/A	N/A	N/A	15/729314	2017-10-10	GLOBALFOUNDRIES Singapore PTE Ltd.	Pending
1DMOS TRANSISTOR STRUCTURES AND INTEGRATED CIRCUITS INCLUDING 1DMOS TRANSISTOR STRUCTURES	N/A	N/A	N/A	15/784422	2017-10-16	GLOBALFOUNDRIES Singapore PTE Ltd.	Pending
MAGNETIC TUNNEL JUNCTION ELEMENT WITH REDUCED TEMPERATURE SENSITIVITY	N/A	N/A	N/A	15/803874	2017-11-06	GLOBALFOUNDRIES Singapore PTE Ltd.	Pending
MULTI-TIME PROGRAMMABLE DEVICE	N/A	N/A	N/A	15/838340	2017-12-11	GLOBALFOUNDRIES Singapore PTE Ltd.	Pending
METHOD FOR FABRICATING DEVICE STRUCTURES HAVING A VARIATION IN ELECTRICAL CONDUCTIVITY	7795104	2010-09-14	N/A	12/030598	2008-02-13	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
INTEGRATED CIRCUIT PACKAGING SYSTEM AND METHOD OF MANUFACTURE THEREOF	7892963	2011-02-22	N/A	12/429916	2009-04-24	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
STRAIN-DIRECT-ON-INSULATOR (SDOI) SUBSTRATE AND METHOD OF FORMING	7998835	2011-08-16	N/A	12/008841	2008-01-15	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
METHOD FOR FABRICATING A SEMICONDUCTOR DEVICE HAVING AN EPITAXIAL CHANNEL AND TRANSISTOR HAVING SAME	8012839	2011-09-06	N/A	12/040562	2008-02-29	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
NESTED AND ISOLATED TRANSISTORS WITH REDUCED IMPEDANCE DIFFERENCE	8143651	2012-03-27	N/A	12/848999	2010-08-02	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
METHODS AND APPARATUS FOR WHITE SPACE REDUCTION IN A PRODUCTION FACILITY	8160736	2012-04-17	N/A	12/023037	2008-01-31	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted

INTEGRATED CIRCUIT SYSTEM WITH THROUGH SILICON VIA AND METHOD OF MANUFACTURE THEREOF	8236688	2012-08-07	13/158660	2011-06-13	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
SELF-ALIGNED BODY FULLY ISOLATED DEVICE	8288235	2012-10-16	12/908860	2010-10-20	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
LDMOS USING A COMBINATION OF ENHANCED DIELECTRIC STRESS LAYER AND DUMMY GATES	8334567	2012-12-18	12/916653	2010-11-01	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
CHANNEL SURFACE TECHNIQUE FOR FABRICATION OF FINFET DEVICES	8349692	2013-01-08	13/043323	2011-03-08	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
SCHEME FOR PLANARIZING THROUGH-SILICON VIAS	8354327	2013-01-15	13/091473	2011-04-21	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
INTEGRATED CIRCUIT SYSTEM EMPLOYING LOW-K DIELECTRICS AND METHOD OF MANUFACTURE THEREOF	8358007	2013-01-22	12/796610	2010-06-08	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
EEPROM CELL	8383475	2013-02-26	12/888431	2010-09-23	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
EEPROM CELL	8383476	2013-02-26	12/888437	2010-09-23	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
SEMICONDUCTOR STRUCTURE INCLUDING HIGH VOLTAGE DEVICE	8410553	2013-04-02	12/964753	2010-12-10	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
INTEGRATED CIRCUIT SYSTEM WITH ULTRA-LOW K DIELECTRIC AND METHOD OF MANUFACTURE THEREOF	8420947	2013-04-16	12/982363	2010-12-30	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
CONSISTENCY CHECK IN DEVICE DESIGN AND MANUFACTURING	8434038	2013-04-30	12/829408	2010-07-02	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
SELF-ALIGNED CONTACT FOR REPLACEMENT METAL GATE AND SLICIDE LAST PROCESSES	8440533	2013-05-14	13/041134	2011-03-04	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
METHOD AND APPARATUS FOR PREEMPTIVE DESIGN VERIFICATION VIA PARTIAL PATTERN MATCHING	8453087	2013-05-28	13/193961	2011-07-29	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
METHOD AND APPARATUS FOR PATTERN ADJUSTED TIMING VIA PATTERN MATCHING	8453089	2013-05-28	13/251437	2011-10-03	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
DIGITAL PHASE LOCKED LOOP SYSTEM AND METHOD	8471614	2013-06-25	13/160072	2011-06-14	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
METHOD AND SYSTEM FOR INTRODUCING PHYSICAL DAMAGE INTO AN INTEGRATED CIRCUIT DEVICE FOR VERIFYING TESTING PROGRAM AND ITS RESULTS	8489945	2013-07-16	12/925031	2010-10-12	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
TRENCH TRANSISTOR	8492226	2013-07-23	13/237969	2011-09-21	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
FINFET WITH STRESSORS	8492235	2013-07-23	12/980375	2010-12-29	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
NANO-ELECTRO-MECHANICAL SYSTEM (NEMS) STRUCTURES WITH ACTUATABLE SEMICONDUCTOR FIN ON BULK SUBSTRATES	8502279	2013-08-06	13/108439	2011-05-16	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
PACKAGE INTERCONNECTS	8513767	2013-08-20	13/052134	2011-03-21	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
INTEGRATION OF ENVM, RMG, AND HKMG MODULES	8518775	2013-08-27	13/251444	2011-10-03	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
POLY PROFILE ENGINEERING TO MODULATE SPACER INDUCED STRESS FOR DEVICE ENHANCEMENT	8519445	2013-08-27	13/182455	2011-07-14	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
RELIABLE CONTACTS	8519482	2013-08-27	13/246879	2011-09-28	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
INTEGRATED CIRCUIT SYSTEM WITH HIERARCHICAL CAPACITOR AND METHOD OF MANUFACTURE THEREOF	8536016	2013-09-17	13/236295	2011-09-19	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
DIELECTRIC STACK	8541273	2013-09-24	12/888434	2010-09-23	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
INTEGRATED CIRCUIT AND METHOD OF FABRICATION THEREOF	8546873	2013-10-01	13/241215	2011-09-23	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
INTEGRATED CIRCUIT SYSTEM WITH BANDGAP MATERIAL AND METHOD OF MANUFACTURE THEREOF	8563386	2013-10-22	12/947530	2010-11-16	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
RELIABLE INTERCONNECT FOR SEMICONDUCTOR DEVICE	8598031	2013-12-03	12/566658	2009-09-28	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
MODIFYING GROWTH RATE OF A DEVICE LAYER	8633081	2014-01-21	12/980376	2010-12-29	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
INTEGRATED TRANSFORMER	8643461	2014-02-04	13/095932	2011-04-28	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
METHODOLOGY FOR PERFORMING POST LAYER GENERATION CHECK	8645876	2014-02-04	13/234117	2011-09-15	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
METHODS TO REDUCE GATE CONTACT RESISTANCE FOR AC REFERENCE REDUCTION	8674457	2014-03-18	12/806354	2010-08-11	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
HIGH-K METAL GATE DEVICE	8691638	2014-04-08	12/964748	2010-12-10	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted

METHOD FOR FABRICATING A SEMICONDUCTOR DEVICE HAVING AN EPITAXIAL CHANNEL AND TRANSISTOR HAVING SAME	8716076	2014-05-06	131/90805	2011-07-26	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
FINNET WITH NOVEL BODY CONTACT FOR MULTIPLE VT APPLICATIONS	8735984	2014-05-27	12/803776	2010-07-06	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
DEFINITION OF LITHOGRAPHY TOOL PROCESS CONDITION	8741511	2014-06-03	13/720879	2012-12-19	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
LD MOS WITH IMPROVED BREAKDOWN VOLTAGE	8748271	2014-06-10	13/046313	2011-03-11	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
STRAINED CHANNEL TRANSISTOR STRUCTURE AND METHOD	8754447	2014-06-17	12/857543	2010-08-16	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
VERTICAL NANOWIRE BASED HETERO-STRUCTURE SPLIT GATE MEMORY	8759875	2014-06-24	13/707617	2012-12-07	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
METHOD TO TUNE NARROW WIDTH EFFECT WITH RAISED S/D STRUCTURE	8785287	2014-07-22	12/803754	2010-07-06	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
METHOD FOR FABRICATING SEMICONDUCTOR DEVICES USING STRESS ENGINEERING	8836036	2014-09-16	12/776437	2010-05-10	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
STRUCTURES AND METHODS OF IMPROVING RELIABILITY OF NON-VOLATILE MEMORY DEVICES	8866212	2014-10-21	13/107005	2011-05-13	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
DAMASCENE PROCESS FOR ALIGNING AND BONDING THROUGH-SILICON-VIA BASED 3D INTEGRATED CIRCUIT STACKS	8877637	2014-11-04	13/234405	2011-09-16	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
PACKAGE INTERCONNECTS	8883634	2014-11-11	13/171478	2011-06-29	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
FINNET	8889494	2014-11-18	12/980371	2010-12-29	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
HIGH NOISE IMMUNITY WITH LATCH-UP FREE ESD CLAMP	8891215	2014-11-18	13/711141	2012-12-11	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
MEMORY CELL WITH DECOUPLED CHANNELS	8946806	2015-02-03	13/189554	2011-07-24	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
ACTIVE PAD PATTERNS FOR GATE ALIGNMENT MARKS	8956946	2015-02-17	13/721611	2012-12-20	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
INTEGRATED CIRCUIT SYSTEM EMPLOYING RESISTANCE ALTERING TECHNIQUES	8969151	2015-03-03	12/040761	2008-02-29	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
COMPACT LOCALIZED RRAM CELL STRUCTURE REALIZED BY SPACER TECHNOLOGY	8993407	2015-03-31	13/683779	2012-11-21	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
HYBRID TSV AND METHOD FOR FORMING THE SAME	9006102	2015-04-14	13/091277	2011-04-21	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
FLAMMENT FREE SILICIDE FORMATION	9023725	2015-05-05	13/720933	2012-12-19	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
P-CHANNEL FLASH WITH ENHANCED BAND-TO-BAND TUNNELING HOT ELECTRON INJECTION	9029227	2015-05-12	13/038081	2011-03-01	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
LD MOS WITH TWO GATE STACKS HAVING DIFFERENT WORK FUNCTIONS FOR IMPROVED BREAKDOWN VOLTAGE	9034711	2015-05-19	13/046332	2011-03-11	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
METHOD FOR FORMING FULLY RELAXED SILICON GERMANIUM ON SILICON	9048129	2015-06-02	13/115684	2011-05-25	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
SPLIT-GATE FLASH MEMORY EXHIBITING REDUCED INTERFERENCE	9064803	2015-06-23	13/189964	2011-07-25	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
COMPACT RRAM STRUCTURE WITH CONTACT-LESS UNIT CELL	9401473	2016-07-26	13/682661	2012-11-20	GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
TRIGGERED SILICON CONTROLLED RECTIFIER FOR RE ESD PROTECTION	8134211	2012-03-13	12/559401	2009-09-14	Agilent Technologies Inc. and GLOBALFOUNDRIES Singapore Ptd Ltd.	Granted
FORMATION OF STRAINED SI CHANNEL AND SiL-XGEX SOURCE/ DRAIN STRUCTURES USING LASER ANNEALING	7892905	2011-02-22	11/195196	2005-08-02	Chartered Semiconductor Manufacturing Ltd. And GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
INTEGRATED CIRCUIT HAVING A PLURALITY OF MOSFET DEVICES	7932178	2011-04-26	11/617552	2006-12-28	Chartered Semiconductor Manufacturing Ltd. And GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
SEMICONDUCTOR SYSTEM USING GERMANIUM CONDENSATION	8211761	2012-07-03	11/465005	2006-08-16	Chartered Semiconductor Manufacturing Ltd. And GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
INTEGRATED CIRCUIT SYSTEM WITH CONTACT DISTRIBUTION FILM	8685861	2014-04-01	11/462036	2006-08-02	Chartered Semiconductor Manufacturing Ltd. And GLOBALFOUNDRIES Singapore Pte Ltd.	Granted
INTEGRATED CIRCUIT SYSTEM EMPLOYING SACRIFICIAL SPACERS	7892900	2011-02-22	12/098751	2008-04-07	Chartered Semiconductor Manufacturing Ltd. And GLOBALFOUNDRIES Singapore Pte Ltd.	Granted

METHOD TO CONTROL SOURCE/DRAIN STRESSOR PROFILES FOR STRESS ENGINEERING	8017487	2011-09-13	11/399016	2006-04-05	GLOBALFOUNDRIES Singapore Pte Ltd. and International Business Machine Corporation	Granted
POLISHING METHOD WITH INERT GAS INJECTION	8143166	2012-03-27	12/046151	2008-03-11	GLOBALFOUNDRIES Singapore Pte Ltd. and International Business Machine Corporation	Granted
DOUBLE ANNEAL WITH IMPROVED RELIABILITY FOR DUAL CONTACT ETCH STOP LINER SCHEME	8148221	2012-04-03	12/581207	2009-10-19	GLOBALFOUNDRIES Singapore Pte Ltd. and International Business Machine Corporation	Granted
METHOD TO CONTROL SOURCE/DRAIN STRESSOR PROFILES FOR STRESS ENGINEERING	8450775	2013-05-28	13/229773	2011-09-12	GLOBALFOUNDRIES Singapore Pte Ltd. and International Business Machine Corporation	Granted
ARC RESIDUE-FREE ETCHING	8901006	2014-12-02	13/081020	2011-04-06	GLOBALFOUNDRIES Singapore Pte Ltd. and International Business Machine Corporation	Granted
METHOD AND APPARATUS FOR BITCELL MODELING	9411919	2016-08-09	14/531451	2014-11-03	GLOBALFOUNDRIES Singapore Pte Ltd. and International Business Machine Corporation	Granted
HIGH-K METAL GATE DEVICE	8853796	2014-10-07	13/110922	2011-05-19	GLOBALFOUNDRIES Singapore Pte Ltd. and International Business Machines Corp.	Granted
FORMATION OF THE DIELECTRIC CAP LAYER FOR A REPLACEMENT GATE STRUCTURE	8957465	2015-02-17	14/285852	2014-05-23	GLOBALFOUNDRIES Singapore Pte Ltd. and International Business Machines Corp.	Granted
RRAM CELL WITH BOTTOM ELECTRODE(S) POSITIONED IN A SEMICONDUCTOR SUBSTRATE	9024286	2015-05-05	14/087183	2013-11-22	GLOBALFOUNDRIES Singapore PTE Ltd. and Nanyang Technological University	Granted
METHOD FOR FABRICATING SEMICONDUCTOR DEVICES WITH REDUCED JUNCTION DIFFUSION	8053340	2011-11-08	11/862213	2007-09-27	GLOBALFOUNDRIES Singapore Pte Ltd. and Nanyang Technological University of Singapore	Granted
TRANSFORMER WITH EFFECTIVE HIGH TURN RATIO	8242872	2012-08-14	11/779892	2007-07-19	GLOBALFOUNDRIES Singapore Pte Ltd. and Nanyang Technological University of Singapore	Granted
METHOD FOR FABRICATING NANO DEVICES	8338280	2012-12-25	12/832082	2009-04-08	GLOBALFOUNDRIES Singapore Pte Ltd. and Nanyang Technological University of Singapore	Granted
METHOD FOR FABRICATING SEMICONDUCTOR DEVICES WITH REDUCED JUNCTION DIFFUSION	8354321	2013-01-15	13/277197	2011-10-19	GLOBALFOUNDRIES Singapore Pte Ltd. and National University of Singapore	Granted
METHOD OF FORMING A NANOSTRUCTURE	8668833	2014-03-11	12/125030	2008-05-21	GLOBALFOUNDRIES Singapore Pte Ltd. and National University of Singapore	Granted
TUNNELING TRANSISTOR	8933435	2015-01-13	13/727547	2012-12-26	GLOBALFOUNDRIES Singapore Pte Ltd. and National University of Singapore	Granted
METHOD TO REDUCE DEPTH DELTA BETWEEN DENSE AND WIDE FEATURES IN DUAL DAMASCENE STRUCTURES	8822342	2014-09-02	12/981519	2010-12-30	GLOBALFOUNDRIES Singapore Pte Ltd., Advanced Micro Devices Inc., Toshiba America Electronic Components Inc., International Business Machine Corporation, and Infineon Technologies North America Corporation	Granted
METHOD FOR FORMING A SHALLOW JUNCTION REGION USING DEFECT ENGINEERING AND LASER ANNEALING	7888224	2011-02-15	12/271262	2008-11-14	GLOBALFOUNDRIES Singapore Pte Ltd., National University of Singapore, and Nanyang Technological University of Singapore	Granted
IP PROTECTION	9069923	2015-06-30	13/161514	2011-06-16	GLOBALFOUNDRIES Singapore Pte Ltd., Renesas Electronics Corp and International Business Machines Corp.	Granted
METHODS OF FORMING CMOS TRANSISTORS USING TENSILE STRESS LAYERS AND HYDROGEN PLASMA TREATMENT	8790972	2014-07-29	12/859644	2010-08-19	GLOBALFOUNDRIES Singapore Pte Ltd., Samsung Electronics Co Ltd., International Business Machines Corp and NXP USA Inc.	Granted
METHOD FOR PERFORMING A SHELF-LIFETIME ACCELERATION TEST STRAIN LAYER	8061224	2011-11-22	12/15550	2008-05-06	GLOBALFOUNDRIES Singapore PTE, Ltd.	Granted
HIGH PERFORMANCE LDMOS DEVICE HAVING ENHANCED DIELECTRIC STRAIN LAYER	8163621	2012-04-24	12/134860	2008-06-06	GLOBALFOUNDRIES Singapore PTE, Ltd.	Granted

PLANARIZED PASSIVATION LAYER FOR SEMICONDUCTOR DEVICES	8264088	2012-09-11	131/79573	2011-07-11	GLOBALFOUNDRIES Singapore PTE, Ltd.	Granted
INTEGRATED CIRCUIT SYSTEM WITH SEALRING AND METHOD OF MANUFACTURE THEREOF	8283193	2012-10-09	12/541373	2009-08-14	GLOBALFOUNDRIES Singapore PTE, Ltd.	Granted
CHANNEL SURFACE TECHNIQUE FOR FABRICATION OF FINFET DEVICES	8896072	2014-11-25	13/736546	2013-01-08	GLOBALFOUNDRIES Singapore PTE, Ltd.	Granted
POWER CLAMP FOR HIGH VOLTAGE INTEGRATED CIRCUITS	8908341	2014-12-09	13/439426	2012-04-04	GLOBALFOUNDRIES Singapore PTE, Ltd.	Granted
LATERAL DOUBLE-DIFFUSED HIGH VOLTAGE DEVICE	8912066	2014-12-16	13/831981	2013-03-15	GLOBALFOUNDRIES Singapore PTE, Ltd.	Granted
LASER ANNEALING	8912102	2014-12-16	12/396441	2009-03-02	GLOBALFOUNDRIES Singapore PTE, Ltd.	Granted
ESD PROTECTION CIRCUIT	8913357	2014-12-16	13/488932	2012-06-01	GLOBALFOUNDRIES Singapore PTE, Ltd.	Granted
LATCH-UP IMMUNE ESD PROTECTION	8913358	2014-12-16	13/533314	2012-06-27	GLOBALFOUNDRIES Singapore PTE, Ltd.	Granted
LATCH-UP FREE RC-BASED NMOS ESD POWER CLAMP IN HV USE	8913359	2014-12-16	13/710700	2012-12-11	GLOBALFOUNDRIES Singapore PTE, Ltd.	Granted
METHODS FOR FABRICATING INTEGRATED CIRCUITS WITH THE IMPLANTATION OF NITROGEN	8916430	2014-12-23	13/897088	2013-05-17	GLOBALFOUNDRIES Singapore PTE, Ltd.	Granted
STRESS LINER FOR STRESS ENGINEERING	8999863	2015-04-07	12/133375	2008-06-05	GLOBALFOUNDRIES Singapore PTE, Ltd.	Granted
METHOD AND APPARATUS FOR CREATING AND MANAGING WAIVER DESCRIPTIONS FOR DESIGN VERIFICATION	9032346	2015-05-12	13/111418	2011-05-19	GLOBALFOUNDRIES Singapore PTE, Ltd.	Granted
NONVOLATILE MEMORY WITH FILAMENT	9082964	2015-07-14	14/141478	2013-12-27	GLOBALFOUNDRIES Singapore PTE, Ltd.	Granted
METHOD OF FORMING SPLIT-GATE CELL FOR NON-VOLATILE MEMORY DEVICES	9111866	2015-08-18	13/788174	2013-03-07	GLOBALFOUNDRIES Singapore PTE, Ltd.	Granted
NON-VOLATILE MEMORY DEVICE WITH TS/TSV APPLICATION	9111941	2015-08-18	13/906289	2013-05-30	GLOBALFOUNDRIES Singapore PTE, Ltd.	Granted
SEMICONDUCTOR DEVICE INCLUDING AN N-WELL STRUCTURE	9111992	2015-08-18	13/231934	2011-09-13	GLOBALFOUNDRIES Singapore PTE, Ltd.	Granted
METHODS OF FORMING REPLACEMENT GATE STRUCTURES FOR SEMICONDUCTOR DEVICES AND THE RESULTING SEMICONDUCTOR PRODUCTS	9117908	2015-08-25	14/107279	2013-12-16	GLOBALFOUNDRIES Singapore PTE, Ltd.	Granted
METHOD AND APPARATUS FOR PERFORMING OPTICAL PROXIMITY AND PHOTOMASK CORRECTION	9122160	2015-09-01	13/832557	2013-03-15	GLOBALFOUNDRIES Singapore PTE, Ltd.	Granted
THREE-DIMENSIONAL NON-VOLATILE MEMORY	9171855	2015-10-27	14/144442	2013-12-30	GLOBALFOUNDRIES Singapore PTE, Ltd.	Granted
WAFER EDGE PROTECTION	9236240	2016-01-12	13/779776	2013-02-28	GLOBALFOUNDRIES Singapore PTE, Ltd.	Granted
METHOD OF FORMING SPLIT-GATE CELL FOR NON-VOLATILE MEMORY DEVICES	9236391	2016-01-12	14/733867	2015-06-08	GLOBALFOUNDRIES Singapore PTE, Ltd.	Granted
CMP HEAD STRUCTURE	9242338	2016-01-26	14/059448	2013-10-22	GLOBALFOUNDRIES Singapore PTE, Ltd.	Granted
CMP HEAD STRUCTURE	9242341	2016-01-26	14/059451	2013-10-22	GLOBALFOUNDRIES Singapore PTE, Ltd.	Granted
SYSTEM AND METHODS FOR OPC MODEL ACCURACY MANAGEMENT AND DISPOSITION	9286435	2016-03-15	14/730244	2015-06-04	GLOBALFOUNDRIES Singapore PTE, Ltd.	Granted
THROUGH SILICON VIAS	9287197	2016-03-15	13/831898	2013-03-15	GLOBALFOUNDRIES Singapore PTE, Ltd.	Granted
INTEGRATED CIRCUITS WITH HALL EFFECT SENSORS AND METHODS FOR PRODUCING SUCH INTEGRATED CIRCUITS	9287497	2016-03-15	14/295547	2014-06-04	GLOBALFOUNDRIES Singapore PTE, Ltd.	Granted
THROUGH SILICON VIAS	9437547	2016-09-06	15/063526	2016-03-08	GLOBALFOUNDRIES Singapore PTE, Ltd.	Granted
TSV WITHOUT ZERO ALIGNMENT MARKS	9437550	2016-09-06	14/106870	2013-12-16	GLOBALFOUNDRIES Singapore PTE, Ltd.	Granted
MAGNETIC MEMORY CELLS WITH FAST READ/WRITE SPEED	9570138	2017-02-14	15/012736	2016-02-01	GLOBALFOUNDRIES Singapore PTE, Ltd.	Granted
MAGNETISM-CONTROLLABLE DUMMY STRUCTURES IN MEMORY DEVICE	9698200	2017-07-04	15/287771	2016-10-07	GLOBALFOUNDRIES Singapore PTE, Ltd.	Granted
ELECTRONIC DEVICES INCLUDING SUBSTANTIALLY HERMETICALLY SEALED CAVITIES AND GETTER FILMS WITH KELVIN MEASUREMENT ARRANGEMENT FOR EVALUATING THE GETTER FILMS AND METHODS FOR FABRICATING THE SAME	9718672	2017-08-01	14/985093	2015-12-30	GLOBALFOUNDRIES Singapore PTE, Ltd.	Granted
MAGNETIC MEMORY CELLS WITH HIGH WRITE CURRENT AND READ STABILITY	9734882	2017-08-15	15/012813	2016-02-01	GLOBALFOUNDRIES Singapore PTE, Ltd.	Granted

INTEGRATED CIRCUITS HAVING MULTIPLE GATE DEVICES WITH DUAL THRESHOLD VOLTAGES AND METHODS FOR FABRICATING SUCH INTEGRATED CIRCUITS	9754939	2017-09-05	14/938499	2015-11-11	GLOBALFOUNDRIES Singapore PTE, Ltd.	Granted
INTEGRATED CIRCUITS WITH LATERAL BIPOLAR TRANSISTORS AND METHODS FOR FABRICATING THE SAME	9761664	2017-09-12	15/133488	2016-04-20	GLOBALFOUNDRIES Singapore PTE, Ltd.	Granted
3D MRAM WITH THROUGH SILICON VIAS OR THROUGH SILICON TRENCHES MAGNETIC SHIELDING	9786839	2017-10-10	15/259032	2016-09-07	GLOBALFOUNDRIES Singapore PTE, Ltd.	Granted
INTEGRATED CIRCUITS INCLUDING LDMOS TRANSISTOR STRUCTURES AND METHODS FOR FABRICATING LDMOS TRANSISTOR STRUCTURES	9793394	2017-10-17	15/181780	2016-06-14	GLOBALFOUNDRIES Singapore PTE, Ltd.	Granted
MAGNETIC MEMORY WITH HIGH THERMAL BUDGET	9842989	2017-12-12	15/057107	2016-02-29	GLOBALFOUNDRIES Singapore PTE, Ltd.	Granted
COMPACT RRAM STRUCTURE WITH CONTACT-LESS UNIT CELL	9847377	2017-12-19	15/144844	2016-05-03	GLOBALFOUNDRIES Singapore PTE, Ltd.	Granted
MAGNETIC SHIELDING OF MRAM PACKAGE	9875971	2018-01-23	15/080541	2016-03-24	GLOBALFOUNDRIES Singapore PTE, Ltd.	Granted
MAGNETIC MEMORY WITH TUNNELING MAGNETORESISTANCE ENHANCED SPACER LAYER	9876163	2018-01-23	15/060647	2016-03-04	GLOBALFOUNDRIES Singapore PTE, Ltd.	Granted
INTEGRATED CIRCUITS WITH COPPER HILLOCK-DETECTING STRUCTURES AND METHODS FOR DETECTING COPPER HILLOCKS USING THE SAME	9881844	2018-01-30	14/134412	2013-12-19	GLOBALFOUNDRIES Singapore PTE, Ltd.	Granted
SEMICONDUCTOR DEVICES WITH CAVITIES AND METHODS FOR FABRICATING SEMICONDUCTOR DEVICES WITH CAVITIES	9932224	2018-04-03	14/973319	2015-12-17	GLOBALFOUNDRIES Singapore PTE, Ltd.	Granted
INTEGRATED CIRCUITS INCLUDING A DUMMY METAL FEATURE AND METHODS OF FORMING THE SAME	10062641	2018-08-28	15/263830	2016-09-13	GLOBALFOUNDRIES Singapore PTE, Ltd.	Granted
SELECTOR-RESISTIVE RANDOM ACCESS MEMORY CELL	N/A	N/A	14/483160	2014-09-11	GLOBALFOUNDRIES Singapore PTE, Ltd.	Pending
CD CONTROL	10103097	2018-10-16	14/484220	2014-09-11	GLOBALFOUNDRIES Singapore PTE, Ltd.	Granted
BOTTOM ELECTRODE FOR MAGNETIC MEMORY TO INCREASE TMR AND THERMAL BUDGET	N/A	N/A	15/075222	2016-03-21	GLOBALFOUNDRIES Singapore PTE, Ltd.	Pending
MAGNETIC SHIELDING FOR MTJ DEVICE OR BIT	N/A	N/A	15/162594	2016-05-23	GLOBALFOUNDRIES Singapore PTE, Ltd.	Pending
INTEGRATED MAGNETIC RANDOM ACCESS MEMORY WITH LOGIC DEVICE	N/A	N/A	15/164914	2016-05-26	GLOBALFOUNDRIES Singapore PTE, Ltd.	Pending
MAGNETIC TUNNEL JUNCTION ELEMENT	N/A	N/A	15/176172	2016-06-08	GLOBALFOUNDRIES Singapore PTE, Ltd.	Pending
VERTICAL RANDOM ACCESS MEMORY WITH SELECTORS	N/A	N/A	15/182625	2016-06-15	GLOBALFOUNDRIES Singapore PTE, Ltd.	Pending
MEMS DEVICE FOR HARVESTING SOUND ENERGY AND METHODS FOR FABRICATING SAME	N/A	N/A	15/185642	2016-06-17	GLOBALFOUNDRIES Singapore PTE, Ltd.	Pending
MRAM MAGNETIC SHIELDING WITH FAN-OUT WAFER LEVEL PACKAGING	N/A	N/A	15/241100	2016-08-19	GLOBALFOUNDRIES Singapore PTE, Ltd.	Pending
PIEZOELECTRIC MICRO-ELECTROMECHANICAL SYSTEM (MEMS)	N/A	N/A	15/256727	2016-09-05	GLOBALFOUNDRIES Singapore PTE, Ltd.	Pending
MOS VARACTORS AND METHODS FOR FABRICATING MOS VARACTORS	N/A	N/A	15/263590	2016-09-13	GLOBALFOUNDRIES Singapore PTE, Ltd.	Pending
MULTI-TIME PROGRAMMABLE (MTP) MEMORY CELLS, INTEGRATED CIRCUITS INCLUDING THE SAME, AND METHODS FOR FABRICATING THE SAME	N/A	N/A	15/267664	2016-09-16	GLOBALFOUNDRIES Singapore PTE, Ltd.	Pending
INTEGRATED CIRCUIT ELECTROSTATIC DISCHARGE PROTECTION WITH DISABLE-ENABLE	N/A	N/A	15/268703	2016-09-19	GLOBALFOUNDRIES Singapore PTE, Ltd.	Pending
ELECTRODE ARRANGEMENT FOR A PMUT AND PMUT TRANSDUCER ARRAY	N/A	N/A	15/278910	2016-09-28	GLOBALFOUNDRIES Singapore PTE, Ltd.	Pending
INTEGRATED III-V DEVICE AND DRIVER DEVICE UNITS AND METHODS FOR FABRICATING THE SAME	N/A	N/A	15/280115	2016-09-29	GLOBALFOUNDRIES Singapore PTE, Ltd.	Pending
HIGH DENSITY CROSS POINT RESISTIVE MEMORY STRUCTURES AND METHODS FOR FABRICATING THE SAME	N/A	N/A	15/280185	2016-09-29	GLOBALFOUNDRIES Singapore PTE, Ltd.	Pending
RELIABLE NON-VOLATILE MEMORY DEVICE	N/A	N/A	15/286592	2016-10-06	GLOBALFOUNDRIES Singapore PTE, Ltd.	Pending
SPACER LAYER FOR MAGNETORESISTIVE MEMORY	N/A	N/A	15/339928	2016-10-31	GLOBALFOUNDRIES Singapore PTE, Ltd.	Pending

CAPACITOR STRUCTURE	N/A	N/A	15/365953	2016-12-01	GLOBALFOUNDRIES Singapore PTE. Ltd.	Pending
TUNNELING FIELD EFFECT TRANSISTOR	N/A	N/A	15/365965	2016-12-01	GLOBALFOUNDRIES Singapore PTE. Ltd.	Pending
INTEGRATED CIRCUITS WITH SRAM DEVICES HAVING READ ASSIST CIRCUITS AND METHODS FOR OPERATING SUCH CIRCUITS	10115453	2018-10-30	15/383083	2016-12-19	GLOBALFOUNDRIES Singapore PTE. Ltd.	Granted
STRAINED CHANNEL, TRANSISTOR AND METHOD OF FABRICATION THEREOF	8912567	2014-12-16	12/852995	2010-08-09	International Business Machines Corporation and GLOBALFOUNDRIES Singapore Ptd Ltd.	Granted
INTERCONNECTS WITH IMPROVED TDDB	9281278	2016-03-08	13/286224	2011-11-01	GLOBALFOUNDRIES Singapore PTE. Ltd. and International Business Machines Corporation	Granted
INTEGRATED CIRCUIT SHIELD STRUCTURE	7652355	2010-01-26	11/832642	2007-08-01	GLOBALFOUNDRIES Singapore PTE. Ltd.	Granted
MASK AND METHOD TO PATTERN CHROMELESS PHASE LITHOGRAPHY CONTACT HOLE	7655388	2010-02-02	11/028421	2005-01-03	GLOBALFOUNDRIES Singapore PTE. Ltd.	Granted
THIN FILM ETCHING METHOD AND SEMICONDUCTOR DEVICE FABRICATION USING SAME	7879732	2011-02-01	11/959034	2007-12-18	GLOBALFOUNDRIES Singapore Pte. Ltd.	Granted
METHOD OF FABRICATING A NITROGENATED SILICON OXIDE LAYER AND MOS DEVICE HAVING SAME	7928020	2011-04-19	11/862865	2007-09-27	GLOBALFOUNDRIES Singapore Pte. Ltd.	Granted
POLY PROFILE ENGINEERING TO MODULATE SPACER INDUCED STRESS FOR DEVICE ENHANCEMENT	7993997	2011-08-09	11/865563	2007-10-01	GLOBALFOUNDRIES Singapore Pte. Ltd.	Granted
PROCESS FOR FABRICATING A SEMICONDUCTOR DEVICE HAVING EMBEDDED EPITAXIAL REGIONS	7994010	2011-08-09	11/965415	2007-12-27	GLOBALFOUNDRIES Singapore Pte. Ltd.	Granted
INTEGRATED CIRCUIT AND METHOD OF FABRICATION THEREOF	8058123	2011-11-15	11/946843	2007-11-29	GLOBALFOUNDRIES Singapore Pte. Ltd.	Granted
CRITICAL DIMENSION FOR TRENCH AND VIAS	8293545	2012-10-23	11/927658	2007-10-29	GLOBALFOUNDRIES Singapore Pte. Ltd.	Granted
STATISTICAL OPTICAL PROXIMITY CORRECTION	8372524	2013-10-29	11/943591	2007-11-21	GLOBALFOUNDRIES Singapore Pte. Ltd.	Granted
METHOD FOR FORMING N-SHAPED BOTTOM STRESS LINER	866616	2014-03-11	14/026640	2013-09-13	GLOBALFOUNDRIES SINGAPORE Pte. Ltd.	Granted
INTEGRATED CIRCUIT SYSTEM WITH SUB-GEOMETRY REMOVAL AND METHOD OF MANUFACTURE THEREOF	8692380	2014-04-08	13/657797	2012-10-22	GLOBALFOUNDRIES SINGAPORE Pte. Ltd.	Granted
SPACER PROFILE ENGINEERING USING FILMS WITH CONTINUOUSLY INCREASED ETCH RATE FROM INNER TO OUTER SURFACE	8828858	2014-09-09	13/353684	2012-01-19	GLOBALFOUNDRIES Singapore Pte. Ltd.	Granted
METHOD AND APPARATUS TO REDUCE THERMAL VARIATIONS WITHIN AN INTEGRATED CIRCUIT DIE USING THERMAL PROXIMITY CORRECTION	8860142	2014-10-14	13/648905	2012-10-10	GLOBALFOUNDRIES SINGAPORE Pte. Ltd.	Granted
MIDDLE IN-SITU DOPED SIGE JUNCTIONS FOR PMOS DEVICES ON 28 NM LOW POWER/HIGH PERFORMANCE TECHNOLOGIES USING A SILICON OXIDE ENCAPSULATION, EARLY HALO AND EXTENSION IMPLANTATIONS	8975704	2015-03-10	14/196517	2014-03-04	GLOBALFOUNDRIES SINGAPORE Pte. Ltd.	Granted
RECESSING AND CAPPING OF GATE STRUCTURES WITH VARYING METAL COMPOSITIONS	9130029	2015-09-08	14/181304	2014-02-14	GLOBALFOUNDRIES SINGAPORE Pte. Ltd.	Granted
METHODS FOR CONVERTING PLANAR DESIGNS TO FINFET DESIGNS IN THE DESIGN AND FABRICATION OF INTEGRATED CIRCUITS	9336345	2016-05-10	14/040037	2013-09-27	GLOBALFOUNDRIES SINGAPORE Pte. Ltd.	Granted
MOS WITH RECESSED LIGHTLY-DOPED DRAIN	9343571	2016-05-17	14/326893	2014-07-09	GLOBALFOUNDRIES SINGAPORE Pte. Ltd.	Granted
SELF-ALIGNED CONTACT FOR REPLACEMENT METAL GATE AND SILICIDE LAST PROCESSES	9362274	2016-06-07	13/867684	2013-04-22	GLOBALFOUNDRIES SINGAPORE Pte. Ltd.	Granted
PELLICLES AND DEVICES COMPRISING A PHOTOMASK AND THE PELLICLE	9395621	2016-07-19	14/543069	2014-11-17	GLOBALFOUNDRIES Singapore Pte. Ltd.	Granted
FINFET	9406801	2016-08-02	14/542676	2014-11-17	GLOBALFOUNDRIES Singapore Pte. Ltd.	Granted
METHOD FOR FORMING AN AIR GAP AROUND A THROUGH-SILICON VIA	9425127	2016-08-23	14/542130	2014-11-14	GLOBALFOUNDRIES Singapore Pte. Ltd.	Granted

INTEGRATED CIRCUIT STRUCTURES WITH SPIN TORQUE TRANSFER MAGNETIC RANDOM ACCESS MEMORY UTILIZING ALUMINUM METALLIZATION LAYERS AND METHODS FOR FABRICATING THE SAME	9490423	2016-11-08	14537955	2014-11-11	GLOBALFOUNDRIES Singapore Pte. Ltd.	Granted
MAGNETIC MEMORY CELLS WITH LOW SWITCHING CURRENT DENSITY	9542987	2017-01-10	15012798	2016-02-01	GLOBALFOUNDRIES Singapore Pte. Ltd.	Granted
SMALL PITCH AND HIGH DENSITY CONTACT ARRAY	9543502	2017-01-10	14720856	2015-05-25	GLOBALFOUNDRIES Singapore Pte. Ltd.	Granted
INTEGRATED CIRCUITS INCLUDING MAGNETIC CORE INDUCTORS AND METHODS FOR FABRICATING THE SAME	9613897	2017-04-04	14537942	2014-11-11	GLOBALFOUNDRIES Singapore Pte. Ltd.	Granted
METHODS FOR FABRICATING INTEGRATED CIRCUITS WITH IMPROVED ACTIVE REGIONS	9620418	2017-04-11	14538850	2014-11-12	GLOBALFOUNDRIES Singapore Pte. Ltd.	Granted
HIGH VOLTAGE DEVICE	9735102	2017-08-15	14660955	2015-03-18	GLOBALFOUNDRIES Singapore Pte. Ltd.	Granted
LOW POWER EMBEDDED ONE-TIME PROGRAMMABLE (OTP) STRUCTURES	9735164	2017-08-15	148884747	2015-10-15	GLOBALFOUNDRIES Singapore Pte. Ltd.	Granted
DEFECT ISOLATION METHODS AND SYSTEMS	9739831	2017-08-22	14824104	2015-08-12	GLOBALFOUNDRIES Singapore Pte. Ltd.	Granted
INTEGRATED CIRCUITS RESISTANT TO ELECTROSTATIC DISCHARGE AND METHODS FOR PRODUCING THE SAME	9741849	2017-08-22	15094635	2016-04-08	GLOBALFOUNDRIES Singapore Pte. Ltd.	Granted
EDGE STRUCTURE FOR BACKGRINDING ASYMMETRICAL BONDED WAFER	9761561	2017-09-12	14660949	2015-03-18	GLOBALFOUNDRIES Singapore Pte. Ltd.	Granted
WAFER STACK PROTECTION SEAL	9768089	2017-09-19	15224680	2016-08-01	GLOBALFOUNDRIES Singapore Pte. Ltd.	Granted
HIGH RECTIFYING RATIO DIODE	9768230	2017-09-19	14084633	2013-11-20	GLOBALFOUNDRIES Singapore Pte. Ltd.	Granted
INTEGRATED CIRCUITS WITH FLASH MEMORY AND METHODS FOR PRODUCING THE SAME	9780231	2017-10-03	15271528	2016-09-21	GLOBALFOUNDRIES Singapore Pte. Ltd.	Granted
MONITORING PATTERN FOR DEVICES	9791772	2017-10-17	14084552	2013-11-19	GLOBALFOUNDRIES Singapore Pte. Ltd.	Granted
TEST STRUCTURE FOR MONITORING LINER OXIDATION	9793185	2017-10-17	14538811	2014-11-12	GLOBALFOUNDRIES Singapore Pte. Ltd.	Granted
PLASMA DISCHARGE PATH	9793208	2017-10-17	14869963	2015-09-29	GLOBALFOUNDRIES Singapore Pte. Ltd.	Granted
INTEGRATED CIRCUITS WITH PROGRAMMABLE MEMORY CELLS AND METHODS FOR PROGRAMMING THE SAME	9799387	2017-10-24	15386200	2016-12-21	GLOBALFOUNDRIES Singapore Pte. Ltd.	Granted
METHODS FOR PRODUCING INTEGRATED CIRCUITS WITH INTERPOSERS AND INTEGRATED CIRCUITS PRODUCED FROM SUCH METHODS	9799571	2017-10-24	14799748	2015-07-15	GLOBALFOUNDRIES Singapore Pte. Ltd.	Granted
METHOD OF FORMING A VIA CONTACT	9805971	2017-10-31	14658261	2015-03-16	GLOBALFOUNDRIES Singapore Pte. Ltd.	Granted
SIMPLE AND COST-FREE MTP STRUCTURE	9818867	2017-11-14	14522606	2014-10-24	GLOBALFOUNDRIES Singapore Pte. Ltd.	Granted
MAPPING A LOOKUP TABLE TO PREFABRICATED TCAMS	9824756	2017-11-21	13966266	2013-08-13	GLOBALFOUNDRIES Singapore Pte. Ltd.	Granted
INTEGRATED CIRCUITS AND METHODS FOR FABRICATING INTEGRATED CIRCUITS WITH NON-VOLATILE MEMORY STRUCTURES	9825185	2017-11-21	15383048	2016-12-19	GLOBALFOUNDRIES Singapore Pte. Ltd.	Granted
FIN SELECTOR WITH GATED RRAM	9825223	2017-11-21	14689654	2015-04-17	GLOBALFOUNDRIES Singapore Pte. Ltd.	Granted
INTEGRATED CIRCUITS WITH DEEP TRENCH ISOLATIONS AND METHODS FOR PRODUCING THE SAME	9831304	2017-11-28	15271599	2016-09-21	GLOBALFOUNDRIES Singapore Pte. Ltd.	Granted
SYSTEMS AND METHODS FOR TESTING PERFORMANCE OF MEMORY MODULES	9837170	2017-12-05	14312837	2014-06-24	GLOBALFOUNDRIES Singapore Pte. Ltd.	Granted
PROGRAMMABLE ACTIVE COOLING DEVICE	9837334	2017-12-05	14673843	2015-03-30	GLOBALFOUNDRIES Singapore Pte. Ltd.	Granted
CONTACT STRAP FOR MEMORY ARRAY	9842844	2017-12-12	144491981	2014-09-20	GLOBALFOUNDRIES Singapore Pte. Ltd.	Granted
INTEGRATED CIRCUITS WITH LATERALLY DIFFUSED METAL OXIDE SEMICONDUCTOR STRUCTURES AND METHODS FOR FABRICATING THE SAME	9842903	2017-12-12	14518786	2014-10-20	GLOBALFOUNDRIES Singapore Pte. Ltd.	Granted
EFFICIENT TRANSFER OF MATERIALS USING AUTOMATED GUIDED VEHICLES IN SEMICONDUCTOR MANUFACTURING	9846415	2017-12-19	13746280	2013-01-21	GLOBALFOUNDRIES Singapore Pte. Ltd.	Granted
INTEGRATED CIRCUITS HAVING COPPER BONDING STRUCTURES WITH SILICON CARBON NITRIDE PASSIVATION LAYERS THEREON AND METHODS FOR FABRICATING SAME	9859236	2018-01-02	14816648	2015-08-03	GLOBALFOUNDRIES Singapore Pte. Ltd.	Granted
HIGH VOLTAGE TRANSISTOR	9859415	2018-01-02	14856574	2015-09-17	GLOBALFOUNDRIES Singapore Pte. Ltd.	Granted

INTEGRATED TWO-TERMINAL DEVICE AND LOGIC DEVICE WITH COMPACT INTERCONNECTS HAVING SHALLOW VIA FOR EMBEDDED APPLICATION	9865649	2018-01-09	15/247866	2016-08-25	GLOBALFOUNDRIES Singapore Pte. Ltd.	Granted
INTEGRATED CIRCUITS WITH MAGNETIC TUNNEL JUNCTIONS AND METHODS FOR PRODUCING THE SAME	9865801	2018-01-09	15/410088	2017-01-19	GLOBALFOUNDRIES Singapore Pte. Ltd.	Granted
RC-STACKED MOSFET CIRCUIT FOR HIGH VOLTAGE (HV) ELECTROSTATIC DISCHARGE (ESD) PROTECTION	9870939	2018-01-16	14/838375	2015-08-28	GLOBALFOUNDRIES Singapore Pte. Ltd.	Granted
GATE-GROUNDED METAL OXIDE SEMICONDUCTOR DEVICE	9871032	2018-01-16	14/848364	2015-09-09	GLOBALFOUNDRIES Singapore Pte. Ltd.	Granted
DOMAIN WALL MAGNETIC MEMORY	9871076	2018-01-16	15/091551	2016-04-05	GLOBALFOUNDRIES Singapore Pte. Ltd.	Granted
EXTENDED DRAIN METAL-OXIDE-SEMICONDUCTOR TRANSISTOR	9871132	2018-01-16	15/236494	2016-08-15	GLOBALFOUNDRIES Singapore Pte. Ltd.	Granted
INTEGRATED CIRCUITS WITH PROGRAMMABLE MEMORY AND METHODS FOR PRODUCING THE SAME	9876019	2018-01-23	15/209102	2016-07-13	GLOBALFOUNDRIES Singapore Pte. Ltd.	Granted
EXTENDED DRAIN METAL-OXIDE-SEMICONDUCTOR TRANSISTOR	9899514	2018-02-20	15/159830	2016-05-20	GLOBALFOUNDRIES Singapore Pte. Ltd.	Granted
TOP ELECTRODE DOME FORMATION	9905282	2018-02-27	15/608407	2017-05-30	GLOBALFOUNDRIES Singapore Pte. Ltd.	Granted
INTEGRATED CIRCUITS, METHODS OF FORMING THE SAME, AND METHODS OF DETERMINING GATE DIELECTRIC LAYER ELECTRICAL THICKNESS IN INTEGRATED CIRCUITS	9911665	2018-03-06	14/586466	2014-12-30	GLOBALFOUNDRIES Singapore Pte. Ltd.	Granted
FIN-BASED NONVOLATILE MEMORY STRUCTURES, INTEGRATED CIRCUITS WITH SUCH STRUCTURES, AND METHODS FOR FABRICATING SAME	9911867	2018-03-06	15/200347	2016-07-01	GLOBALFOUNDRIES Singapore Pte. Ltd.	Granted
INTEGRATED CIRCUITS WITH ALUMINUM VIA STRUCTURES AND METHODS FOR FABRICATING THE SAME	9917027	2018-03-13	14/988256	2015-12-30	GLOBALFOUNDRIES Singapore Pte. Ltd.	Granted
INTEGRATED CIRCUITS USING SILICON ON INSULATOR SUBSTRATES AND METHODS OF MANUFACTURING THE SAME	9922868	2018-03-20	14/662427	2015-03-19	GLOBALFOUNDRIES Singapore Pte. Ltd.	Granted
INTEGRATED CIRCUITS HAVING TRANSISTORS WITH HIGH HOLDING VOLTAGE AND METHODS OF PRODUCING THE SAME	9922969	2018-03-20	15/271560	2016-09-21	GLOBALFOUNDRIES Singapore Pte. Ltd.	Granted
METHOD FOR PRODUCING INTEGRATED CIRCUIT MEMORY CELLS WITH LESS DEDICATED LITHOGRAPHIC STEPS	9929165	2018-03-27	15/278112	2016-09-28	GLOBALFOUNDRIES Singapore Pte. Ltd.	Granted
INTEGRATED CIRCUITS HAVING DEVICE CONTACTS AND METHODS FOR FABRICATING THE SAME	9941160	2018-04-10	13/950366	2013-07-25	GLOBALFOUNDRIES Singapore Pte. Ltd.	Granted
HEAT DISSIPATION AND SERIES RESISTANCE REDUCTION OF PA AND RF SWITCH IN SILT BY BACKSIDE THICK METAL	9960115	2018-05-01	15/640928	2017-07-03	GLOBALFOUNDRIES Singapore Pte. Ltd.	Granted
RELIABLE NON-VOLATILE MEMORY DEVICE	9960172	2018-05-01	14/547155	2014-11-19	GLOBALFOUNDRIES Singapore Pte. Ltd.	Granted
SYSTEM FOR DETECTION OF A PHOTON EMISSION GENERATED BY A DEVICE AND METHODS FOR DETECTING THE SAME	9964589	2018-05-08	15/346025	2016-11-08	GLOBALFOUNDRIES Singapore Pte. Ltd.	Granted
INTEGRATED CIRCUITS AND COUPLED INDUCTORS WITH ISOTROPIC MAGNETIC CORES, AND METHODS FOR FABRICATING THE SAME	9966186	2018-05-08	15/394212	2016-12-29	GLOBALFOUNDRIES Singapore Pte. Ltd.	Granted
INTEGRATED CIRCUITS AND METHODS FOR FABRICATING INTEGRATED CIRCUITS AND ELECTRICAL INTERCONNECTS FOR III-V SEMICONDUCTOR DEVICES	9991230	2018-06-05	15/233235	2016-08-10	GLOBALFOUNDRIES Singapore Pte. Ltd.	Granted
SYSTEM AND METHOD FOR MODULAR SIMULATION OF SPIN TRANSFER TORQUE MAGNETIC RANDOM ACCESS MEMORY DEVICES	9997225	2018-06-12	14/963264	2015-12-09	GLOBALFOUNDRIES Singapore Pte. Ltd.	Granted
METHODS FOR FABRICATING INTEGRATED CIRCUITS INCLUDING SUBSTRATE CONTACTS	9997393	2018-06-12	15/616143	2017-06-07	GLOBALFOUNDRIES Singapore Pte. Ltd.	Granted
MRAM MEMORY DEVICE AND MANUFACTURING METHOD THEREOF	9997562	2018-06-12	15/458944	2017-03-14	GLOBALFOUNDRIES Singapore Pte. Ltd.	Granted
METHOD TO FORM THICKER ERASE GATE POLY SUPERFLASH NVN	10020372	2018-07-10	15/496752	2017-04-25	GLOBALFOUNDRIES Singapore Pte. Ltd.	Granted

EXTENDED DRAIN METAL-OXIDE-SEMICONDUCTOR TRANSISTOR	10020394	2018-07-10	15/883056	2018-01-29	GLOBALFOUNDRIES Singapore Pte. Ltd.	Granted
ELECTRONIC DEVICES WITH TUNABLE ELECTROSTATIC DISCHARGE PROTECTION AND METHODS FOR PRODUCING THE SAME	10032761	2018-07-24	15/481835	2017-04-07	GLOBALFOUNDRIES Singapore Pte. Ltd.	Granted
INTEGRATED CIRCUITS WITH ELECTROSTATIC DISCHARGE PROTECTION AND METHODS FOR PRODUCING THE SAME	10032765	2018-07-24	15/598764	2017-05-18	GLOBALFOUNDRIES Singapore Pte. Ltd.	Granted
VDMOS TRANSISTORS, BCD DEVICES INCLUDING VDMOS TRANSISTORS, AND METHODS FOR FABRICATING INTEGRATED CIRCUITS WITH SUCH DEVICES	10032766	2018-07-24	15/267627	2016-09-16	GLOBALFOUNDRIES Singapore Pte. Ltd.	Granted
INTEGRATED CIRCUITS WITH CAPACITORS AND METHODS FOR PRODUCING THE SAME	10032771	2018-07-24	15/479507	2017-04-05	GLOBALFOUNDRIES Singapore Pte. Ltd.	Granted
INTEGRATED CIRCUITS WITH HIGH VOLTAGE DEVICES AND METHODS FOR PRODUCING THE SAME	10032772	2018-07-24	15/268836	2016-09-19	GLOBALFOUNDRIES Singapore Pte. Ltd.	Granted
HALL ELEMENT FOR 3-D SENSING USING INTEGRATED PLANAR AND VERTICAL ELEMENTS AND METHOD FOR PRODUCING THE SAME	10050082	2018-08-14	15/678740	2017-08-16	GLOBALFOUNDRIES Singapore Pte. Ltd.	Granted
INTEGRATED CIRCUITS AND COUPLED INDUCTORS WITH ISOTROPIC MAGNETIC CORES, AND METHODS FOR FABRICATING THE SAME	10068694	2018-09-04	15/920961	2018-03-14	GLOBALFOUNDRIES SINGAPORE Pte. Ltd.	Granted
MULTI-TIME PROGRAMMABLE MEMORY	N/A	N/A	13/589176	2012-08-20	GLOBALFOUNDRIES SINGAPORE Pte. Ltd.	Granted
SEMICONDUCTOR DEVICES WITH CAVITIES AND METHODS FOR FABRICATING SEMICONDUCTOR DEVICES WITH CAVITIES	N/A	N/A	15/899785	2018-02-20	GLOBALFOUNDRIES SINGAPORE Pte. Ltd.	Granted
INTEGRATED MAGNETIC RANDOM ACCESS MEMORY WITH LOGIC DEVICE HAVING LOW-K INTERCONNECTS	N/A	N/A	15/949041	2018-04-09	GLOBALFOUNDRIES SINGAPORE Pte. Ltd.	Pending
INTEGRATED CIRCUIT SYSTEM EMPLOYING AN ELEVATED DRAIN	7951680	2011-05-31	12/262120	2008-10-30	Chartered Semiconductor Manufacturing Ltd. And GLOBALFOUNDRIES Singapore Pte. Ltd.	Granted
WAFER HANDLING SYSTEM FOR A LOADLOCK	8920097	2014-12-30	11/933810	2007-11-01	GLOBALFOUNDRIES Singapore Pte. Ltd. and Chartered Semiconductor Manufacturing Pte. Ltd.	Granted
TUNABLE HIGH QUALITY FACTOR INDUCTOR	8237531	2012-08-07	11/967270	2007-12-31	GLOBALFOUNDRIES Singapore Pte. Ltd. and Nanyang Technological University of Singapore	Granted
SEMICONDUCTOR FABRICATION PROCESS INCLUDING AN SIGE REWORK METHOD	7955936	2011-06-07	12/172756	2008-07-14	GLOBALFOUNDRIES Singapore Pte. Ltd., International Business Machine Corporation and Infineon Technologies AG	Granted
INTEGRATED CIRCUIT ISOLATION SYSTEM	7972921	2011-07-05	11/369239	2006-03-06	GLOBALFOUNDRIES Singapore Pte. Ltd., International Business Machine Corporation and Chartered Semiconductor Manufacturing Ltd.	Granted
SEMICONDUCTOR INTRA-FIELD DOSE CORRECTION	8350235	2013-01-08	12/509821	2009-07-27	GLOBALFOUNDRIES Singapore Pte. Ltd., International Business Machines Corporation, Samsung Electronics Co., Ltd., and NXP USA, Inc.	Granted

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