505287588 01/21/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5334363

| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|----------------|----------------|
| XINSHU CAI | 01/18/2019 |
| SHYUE SENG TAN | 01/18/2019 |
| ENG HUAT TOH | 01/18/2019 |

RECEIVING PARTY DATA

| Name: | GLOBALFOUNDRIES SINGAPORE PTE. LTD. | |
|-----------------|---|--|
| Street Address: | 60 WOODLANDS INDUSTRIAL PARK D STREET 2 | |
| City: | SINGAPORE | |
| State/Country: | SINGAPORE | |
| Postal Code: | 738406 | |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 16251129 |

CORRESPONDENCE DATA

Fax Number: (617)849-5451

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

Email: globalfoundries@vjp.de

Correspondent Name: VIERING, JENTSCHURA & PARTNER MBB

Address Line 1: C/O 444 BRICKELL AVENUE.

Address Line 2: SUITE 51270

Address Line 4: MIAMI, FLORIDA 33131

| ATTORNEY DOCKET NUMBER: P115363US | |
|---|----------------|
| NAME OF SUBMITTER: | NATALIE A. LEE |
| SIGNATURE: /Natalie A. Lee, Reg.# 67,023/ | |
| DATE SIGNED: | 01/21/2019 |

Total Attachments: 3

source=P115363US_Declaration_Assignment#page1.tif source=P115363US_Declaration_Assignment#page2.tif source=P115363US_Declaration_Assignment#page3.tif

PATENT 505287588 REEL: 048066 FRAME: 0105

GF SG Ref. No.: KSG079

COMBINED DECLARATION and ASSIGNMENT (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

| Title of Invention | AN ANTI-FUSE MEMORY CELL AND A METHOD FOR FORMING THE ANTI- FUSE MEMORY CELL |
|---|---|
| DECLARATION | |
| As the below | named inventor, I hereby declare that: |
| This declarati | 16.71 |
| | United States application or PCT international application numberfiled on |
| The above-identified application was made or authorized to be made by me. | |
| I believe that | I am the original inventor or an original joint inventor of a claimed invention in the application. |
| I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both. | |
| I have reviewed and understand the contents of the application and am aware of the duty to disclose to the US Patent and Trademark Office all information known to me to be material to patentability as defined in 37 CFR § 1.56. | |
| ASSIGNMENT | |
| For good and valuable consideration, the receipt, sufficiency and adequacy of which are hereby acknowledged, I hereby sell, assign, transfer, to GLOBALFOUNDRIES Singapore Ptc. Ltd. having a business address of 60 Woodlands Industrial Park D Street 2, Singapore 738406 its successors and assigns, absolutely and forever, my entire right, title and interest in and to the invention listed above, together with the Application, any and all Patents that may issue in the United States and/or any foreign countries, and any reissues, re-examinations, renewals, continuations, continuation-inparts, divisionals or extensions thereof that may be issued or granted, and all right, title and interest to the inventions contained in said Patents and Applications, for the United States and all foreign countries, and all the rights and privileges relating thereto including but not limited to the priority rights arising from said Applications, the right to recover and take all such proceedings as may be necessary for the recovery of damages or otherwise in respect of past, present and future infringement, and the right to apply for, take and maintain patents on said inventions. | |
| If any portion of this Combined Declaration or Assignment is held unenforceable, then remaining portions hereof shall nevertheless remain in full force and effect. | |
| | |
| LEGAL NAME OF INVENTOR | |
| inventor; | Xinshu CAI Date: 70/9.0(.) |
| Signature: | Gradalus |
| Note: An appl | ication data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. |

Use an additional form for each additional inventor.

magagasta, s

PATENT REEL: 048066 FRAME: 0106

GF SG Ref. No.: KSG079

COMBINED DECLARATION and ASSIGNMENT (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

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|---|--|
| Title of Invention | AN ANTI-FUSE MEMORY CELL AND A METHOD FOR FORMING THE ANTI- FUSE MEMORY CELL |
| | DECLARATION |
| As the below | named inventor, I hereby declare that: |
| This declarati | |
| is directed to: | |
| | United States application or PCT international application number filed on |
| | |
| The above-id | entified application was made or authorized to be made by me. |
| I believe that | I am the original inventor or an original joint inventor of a claimed invention in the application. |
| I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (S) years, or both. | |
| I have reviewed and understand the contents of the application and am aware of the duty to disclose to the US Patent and Trademark Office all information known to me to be material to patentability as defined in 37 CFR § 1.56. | |
| | ASSIGNMENT |
| For good and valuable consideration, the receipt, sufficiency and adequacy of which are hereby acknowledged, I hereby sell, assign, transfer, to GLOBALFOUNDRIES Singapore Pte. Ltd. having a business address of 60 Woodlands Industrial Park D Street 2, Singapore 738406 its successors and assigns, absolutely and forever, my entire right, title and interest in and to the invention listed above, together with the Application, any and all Patents that may issue in the United States and/or any foreign countries, and any reissues, re-examinations, renewals, continuations, continuation-inparts, divisionals or extensions thereof that may be issued or granted, and all right, title and interest to the inventions contained in said Patents and Applications, for the United States and all foreign countries, and all the rights and privileges relating thereto including but not limited to the priority rights arising from said Applications, the right to recover and take all such proceedings as may be necessary for the recovery of damages or otherwise in respect of past, present and future infringement, and the right to apply for, take and maintain patents on said inventions. | |
| If any portion of this Combined Declaration or Assignment is held unenforceable, then remaining portions hereof shall nevertheless remain in full force and effect. | |
| | |
| LEGAL NAN | AE OF INVENTOR |
| Inventor: | Shyue Seng TAN Date: 18 Jan 2019 |
| Signature: | HJ- |
| Note: An appl | eation data sheet (FTC/SB/14 or conivalent), including naming the entire inventive cutity, must accommony this form. |

Note: An application data sheet (FTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. Use an additional form for each additional inventor.

Automorphy a

PATENT REEL: 048066 FRAME: 0107

GF SG Ref. No.: KSG079

COMBINED DECLARATION and ASSIGNMENT (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

| Title of Invention | AN ANTI-FUSE MEMORY CELL AND A METHOD FOR FORMING THE ANTI- FUSE MEMORY CELL | |
|--|---|--|
| DECLARATION | | |
| As the below | named inventor, I hereby declare that: | |
| This declarati | 1/ \ | |
| | United States application or PCT international application number filed on | |
| The above-identified application was made or authorized to be made by me. | | |
| I believe that | I am the original inventor or an original joint inventor of a claimed invention in the application. | |
| I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both. | | |
| I have reviewed and understand the contents of the application and am aware of the duty to disclose to the US Patent and Trademark Office all information known to me to be material to patentability as defined in 37 CFR § 1.56. | | |
| | ASSIGNMENT | |
| For good and valuable consideration, the receipt, sufficiency and adequacy of which are hereby acknowledged, I hereby sell, assign, transfer, to GLOBALFOUNDRIES Singapore Pte. Ltd. having a business address of 60 Woodlands Industrial Park D Street 2, Singapore 738406 its successors and assigns, absolutely and forever, my entire right, title and interest in and to the invention listed above, together with the Application, any and all Patents that may issue in the United States and/or any foreign countries, and any reissues, re-examinations, renewals, continuations, continuation-in-parts, divisionals or extensions thereof that may be issued or granted, and all right, title and interest to the inventions contained in said Patents and Applications, for the United States and all foreign countries, and all the rights and privileges relating thereto including but not limited to the priority rights arising from said Applications, the right to recover and take all such proceedings as may be necessary for the recovery of damages or otherwise in respect of past, present and future infringement, and the right to apply for, take and maintain patents on said inventions. | | |
| If any portion of this Combined Declaration or Assignment is held unenforceable, then remaining portions hereof shall nevertheless remain in full force and effect. | | |
| | | |
| LEGAL NAME OF INVENTOR | | |
| Inventor: | Eng Huat TOH Date: 18 Jan 19 | |
| Signature: | <u> </u> | |
| | ication data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. nal form for each additional inventor. | |

PATENT REEL: 048066 FRAME: 0108

RECORDED: 01/21/2019