PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4840938

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

CONVEYING PARTY DATA

| Name | Execution Date |
|--------------------|----------------|
| DAVID C. PRITCHARD | 10/14/2016 |
| TUHIN GUBA NEOGI | 10/14/2016 |
| SCOTT LUNING | 10/13/2016 |
| DAVID DOMAN | 10/13/2016 |

RECEIVING PARTY DATA

| Name: | GLOBALFOUNDRIES INC. |
|-------------------|----------------------|
| Street Address: | P.O. BOX 309 |
| Internal Address: | UGLAND HOUSE |
| City: | GRAND CAYMAN |
| State/Country: | CAYMAN ISLANDS |
| Postal Code: | KY1-1104 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 15905621 |

CORRESPONDENCE DATA

Fax Number: (713)934-7011

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: 713-934-4097

Email: nnolan@wmalaw.com

Correspondent Name: WILLIAMS MORGAN, P.C.

Address Line 1: 710 N. POST OAK ROAD

Address Line 2: SUITE 350

Address Line 4: HOUSTON, TEXAS 77024

| ATTORNEY DOCKET NUMBER: | HU014DIV/4014.261382 |
|-------------------------|------------------------------------------------------------|
| NAME OF SUBMITTER: | RAYMUND F. EICH, PH.D. |
| SIGNATURE: | /Raymund F. Eich, Ph.D./ |
| DATE SIGNED: | 02/26/2018 |
| | This document serves as an Oath/Declaration (37 CFR 1.63). |

PATENT REEL: 045043 FRAME: 0150

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Total Attachments: 4source=Combined_Declaration_and_Assignment#page1.tif source=Combined_Declaration_and_Assignment#page2.tif source=Combined_Declaration_and_Assignment#page3.tif

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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 | METHOD, APPARATUS, AND SYSTEM FOR USING A COVER MASK FOR ENABLING METAL LINE JUMPING OVER MOL FEATURES IN A STANDARD CELL |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| | DECLARATION |
| As the below | named inventor, I hereby declare that: |
| This declaration | |
| | United States application or PCT international application numberfiled 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. |
| | owledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by onment 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 Inc. having a business address of PO Box 309, Ugland House, Grand Cayman KY1-1104 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 NA | ME OF INVENTOR |
| Inventor: David C. Pritchard Date: 14 Oct 2016 | |
| Signature | |
| | ication data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. |

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| The above-id | entified application was made or authorized to be made by me. |
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| For good and valuable consideration, the receipt, sufficiency and adequacy of which are hereby acknowledged, I hereby sell, assign, transfer, to GLOBALFOUNDRIES Inc. having a business address of PO Box 309, Ugland House, Grand Cayman KY1-1104 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 NAI | ME OF INVENTOR |
| Inventor: | Tuhin Guha Neogi Date: 10/14/2016 |
| Signature | Tuhun Gruha Neog. |
| | ication data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. |

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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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| 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: | Scott Luning Date: /4/3/16 |
| Signature: | 1 (feet production of the second of the sec |
| Note: An appl Use an additio | lication data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. nal form for each additional inventor. |

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| NNTTHE CO. | |
| LEGAL NAM | E OF INVENTOR |
| Inventor: David Doman Date: 10/13/16 | |
| Signature: | Nord Norm |
| Note: An applic | ation data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. If form for each additional inventor. |

84625460v1 **RECORDED: 02/26/2018**