504415704 06/15/2017

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4462404

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

CONVEYING PARTY DATA

| Name | Execution Date |
|-------------|----------------|
| RUILONG XIE | 04/05/2016 |

RECEIVING PARTY DATA

| Name: | GLOBALFOUNDRIES, INC. |
|-------------------|-----------------------|
| Street Address: | P.O. BOX 309 |
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| State/Country: | CAYMAN ISLANDS |
| Postal Code: | KY1-1104 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 15623758 |

CORRESPONDENCE DATA

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| ATTORNEY DOCKET NUMBER: | YOR920160081US02 |
|-------------------------|--|
| NAME OF SUBMITTER: | DUANE P. MINLEY |
| SIGNATURE: | /Duane P. Minley/ |
| DATE SIGNED: | 06/15/2017 |
| | This document serves as an Oath/Declaration (37 CFR 1.63). |

Total Attachments: 1

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PATENT 504415704 REEL: 042725 FRAME: 0309

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 | TWO-DIMENSIONAL SELF-ALIGNED SUPER VIA INTEGRATION ON SELF-ALIGNED GATE CONTACT | |
|--|---|--|
| As the below | named inventor, I hereby declare that: | |
| This declaration | | |
| | United States application or PCT international application number | |
| The above-id | entified application was made or authorized to be made by me. | |
| I believe that application. | I am the original inventor or an original joint inventor of a claimed invention in the | |
| 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 review US Patent and 37 CFR § 1.56 | ed and understand the contents of the application and am aware of the duty to disclose to the large Trademark Office all information known to me to be material to patentability as defined in S. | |
| | 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 KYI-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 any reissues, 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 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. | | |
| Inventor: RUILONG XIE Signature: RUILONG XIE Date: 4/05/20/6 | | |
| ote: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must ecompany this form. Use an additional form for each additional inventor. | | |

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RECORDED: 06/15/2017

PATENT REEL: 042725 FRAME: 0310