

PATENT ASSIGNMENT COVER SHEET

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| CONVEYING PARTY DATA | | |
| | Name | Execution Date |
| | FEI ZHOU | 09/28/2016 |
| RECEIVING PARTY DATA | | |
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| PROPERTY NUMBERS Total: 1 | | |
| Property Type | Number | |
| Application Number: | 16383531 | |
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| NAME OF SUBMITTER: | THUY DIEP |
| SIGNATURE: | / Thuy Diep / |
| DATE SIGNED: | 04/12/2019 |
| Total Attachments: 2 source=Assignment_087720-042610US-1135016#page1.tif source=Assignment_087720-042610US-1135016#page2.tif | |

ASSIGNMENT
(Patent Application)

I, the undersigned, have invented certain inventions and improvements disclosed in a utility non-provisional patent application entitled

"METHOD AND STRUCTURE FOR CMOS METAL GATE STACK,"

the specification of which is provided with this Assignment and identified by the Attorney Docket No. above.

For other good and valuable consideration, the receipt and sufficiency of which I acknowledge, I:

1. Agree to assign, transfer, convey, and sell, hereby assign, transfer, convey, and sell and have assigned, transferred, conveyed, and sold to **Semiconductor Manufacturing International (Shanghai) Corporation**, a corporation of People's Republic of China, having a principal place of business at 18 Zhang Jiang Road, Pudong New Area, Shanghai, 201203, People's Republic of China *and* **Semiconductor Manufacturing International (Beijing) Corporation**, a corporation of People's Republic of China, having a principal place of business at 18 Wen Chang Road, Economical-Technological Development Area, Daxing District, Beijing, 100176, People's Republic of China, ("Assignees"), the entire right, title, and interest in and to:
 - (a) all intellectual property (including, without limitation, any innovation, information, invention, discovery, product, process, work or design) disclosed, embodied, shown, or claimed in the above-referenced patent application, implicitly or explicitly;
 - (b) the above-referenced patent application, the right to claim priority to the above-referenced patent application, all applications based in whole or in part upon the above-referenced patent application, including, without limitation, all applications that are a provisional, non-provisional, design, divisional, continuation, continuation-in-part, registration, utility model, industrial design, reissue, renewal, substitute, extension, reexamination, post-grant review, inter partes review, supplemental examination or non-U.S. patent application or application for other rights based in whole or in part on the above-referenced patent application;
 - (c) all patents (including, without limitation, all U.S. and non-U.S. patents, registrations, utility models, industrial designs, design patents, counterparts, continuations, continuations-in-part, divisionals, reissues,

renewals, substitutes, extensions, reexaminations, post-grant reviews, inter partes reviews and supplemental examinations) that are granted or issued upon, or that claim priority to, any and all applications described in (b) of this paragraph or that disclose or claim intellectual property described in (a) of this paragraph, in whole or in part; and

- (d) all claims for damages by reason of past infringement of any rights under the applications or patents described in (a), (b) or (c) of this paragraph (including provisional rights to reasonable royalties pursuant to 35 U.S.C. §154(d)) and the right to sue for and collect such damages and royalties for Assignee's own use.
2. Authorize and request the U.S. Patent and Trademark Office or any other U.S. or non-U.S. agency to issue to the Assignee any and all patent(s), or other rights or documents, resulting from the intellectual property, patent application(s) and patents described in paragraph 1 of this Assignment.
 3. Agree to sign all papers and documents, including without limitation, applications, declarations, oaths and petitions, and, at the Assignee's expense, perform any other acts that are necessary in connection with prosecution of patent application(s) or intellectual property described in paragraph 1 of this Assignment and the enforcement of patent(s) or other rights resulting from such patent application(s) or intellectual property.
 4. Agree that the terms, covenants, and conditions of this Assignment shall inure to the benefit of the Assignee, its successors, assigns and other legal representative, and shall be binding upon me, as well as my heirs, legal representatives, and assigns.
 5. Promise and affirm that I have not entered, and will not enter, into any assignment, contract, or understanding that conflicts with this Assignment.
 6. Authorize Kilpatrick Townsend & Stockton to insert above the application number and filing date of the above-described patent application when known.

Signed on the date indicated beside my signature.

Signature: FEI ZHOU
FEI ZHOU

Date: 2011.9.28