

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| CHIA-YING TIEN | 03/30/2015 |
| CHIA-LIN HSUEH | 03/30/2015 |
| RECEIVING PARTY DATA | |
| Name: | TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY, LTD. |
| Street Address: | NO. 8, LI-HSIN RD. 6, HSINCHU SCIENCE PARK |
| City: | 300-78 |
| State/Country: | TAIWAN |
| Postal Code: | 300-78 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 17095938 |
| CORRESPONDENCE DATA | |
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| NAME OF SUBMITTER: | DANIEL R. MCCLURE |
| SIGNATURE: | /Daniel R. McClure/ |
| DATE SIGNED: | 11/12/2020 |
| Total Attachments: 1 | |
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ASSIGNMENT

WHEREAS, Chia-Ying TIEN, and Chia-Lin HSUEH

hereafter referred to as ASSIGNOR, has/have invented certain new and useful improvements as described and set forth in the below identified application for United States Letters Patent:

Title: METHOD AND SYSTEM FOR CLEANSING WAFER IN CMP PROCESS OF SEMICONDUCTOR MANUFACTURING FABRICATION

Filed: 2015-03-31

Serial No. 14/674,138

Executed on: _____

WHEREAS, Taiwan Semiconductor Manufacturing Co., Ltd. of No.8, Li-Hsin Road, 6, Science-Based Industrial Park, Hsin-Chu, Taiwan 300-77, R.O.C. hereinafter referred to as ASSIGNEE, is desirous of acquiring ASSIGNOR'S interest in the said invention and application and in any U.S. Letters Patent which may be granted on the same;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for good and valuable consideration, receipt of which is hereby acknowledged by Assignor, Assignor has/have sold, assigned and transferred, and by these presents does/do sell, assign and transfer unto the said Assignee, and Assignee's successors and assigns, all his/her/their rights, title and interest in and to the said invention and application and all future improvements thereon, and in and to any Letters Patent which may hereafter be granted on the same in the United States, the said interest to be held and enjoyed by said Assignee as fully and exclusively as it would have been held and enjoyed by said Assignor had this Assignment and transfer not been made, to the full end and term of any Letters Patent which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

Assignor further agrees/agree that he/she/they will, without charge to said Assignee, but at Assignee's expense, cooperate with Assignee in the prosecution of said application and/or applications, execute, verify, acknowledge and deliver all such further papers, including applications for Letters Patent and for the reissue thereof, and instruments of assignment and transfer thereof, and will perform such other acts as Assignee lawfully may request, to obtain or maintain Letters Patent for said invention and improvement, and to vest title thereto in said Assignee, or Assignee's successors and assigns.

IN TESTIMONY WHEREOF, Assignor has/have signed his/her/their name(s) on the date(s) indicated.

03/30/2015 Chia-Ying Tien
Date Name: Chia-Ying TIEN (Last name: TIEN)

03/30/2015 Chia-Lin Hsueh
Date Name: Chia-Lin HSUEH (Last name: HSUEH)