

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| HSIEN-CHIEH TSAI | 11/06/2013 |
| TZ-WEI LIN | 11/06/2013 |
| SHENG-JEN YANG | 11/06/2013 |
| HUNG-YIN LIN | 11/06/2013 |
| CHERNG-CHANG TSUEI | 11/06/2013 |
| CHEN-HSIANG LU | 11/06/2013 |
| RECEIVING PARTY DATA | |
| Name: | TAIWAN SEMICONDUCTOR MANUFACTURING CO., LTD. |
| Street Address: | NO. 8, LI-HSIN RD. 6, SCIENCE-BASED |
| Internal Address: | INDUSTRIAL PARK |
| City: | HSINCHU |
| State/Country: | TAIWAN |
| Postal Code: | 300 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 14875409 |
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| NAME OF SUBMITTER: | BERNARD P. CODD |
| SIGNATURE: | /BERNARD P. CODD/ |
| DATE SIGNED: | 10/05/2015 |

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Total Attachments: 2

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NP-14152-US-B
TSMC-2-13-1100

Inventor(s)-to-Assignee

ASSIGNMENT

This assignment agreement is applicable to an invention entitled (Invention Title) ADVANCED PROCESS CONTROL METHOD FOR CONTROLLING WIDTH OF SPACER AND DUMMY SIDEWALL IN SEMICONDUCTOR DEVICE

The PATENT RIGHTS referred to in this agreement are:

- (check one) ☐ a patent application for this invention, executed by the ASSIGNOR(S) concurrently with this assignment.
- ☒ U.S. patent application Serial No. 14/081,623, filed on November 15, 2013
- ☐ a U.S. patent application based on PCT International Application No. _____ filed on (date) _____ (U.S. patent application Serial No. _____, if known).
- ☐ U.S. patent No. _____, issued _____.

The PATENT RIGHTS also include all divisions, reissues, continuations and extensions of the patents and patent applications identified above.

The PATENT RIGHTS assigned under this agreement are:

- (check one) ☒ U.S. patent rights only.
- ☐ Worldwide patent rights. In this case, the assignee shall have the right to claim the benefit of the filing date of any U.S. or foreign patent application for this invention.

The ASSIGNOR(S) referred to in this agreement is (or are) the inventor(s) whose signatures appear on page 2 of this Assignment and any Supplemental Sheet(s).

The ASSIGNEE referred to in this agreement is:

(Name of Assignee) TAIWAN SEMICONDUCTOR MANUFACTURING CO., LTD.
(Address) NO. 8, LI-HSIN RD. 6, SCIENCE-BASED INDUSTRIAL PARK, HSINCHU, TAIWAN 300, R.O.C.

The ASSIGNEE is:

- (check one) ☐ An individual.
- ☐ A Partnership.
- ☒ A Corporation of TAIWAN, R.O.C. (specify state or country)
- ☐ (other) _____

The ASSIGNOR(S), in consideration of \$10.00 paid by the ASSIGNEE, and other good and valuable consideration, receipt of which is acknowledged, hereby assign(s) the following rights to the ASSIGNEE, its successors and assigns:

the full and exclusive right to the invention;

the entire right, title and interest in and to the PATENT RIGHTS;

the right to sue and recover for any past infringement; and

the right to claim priority under 35 USC 119, 35 USC 120, or any other applicable provisions, based on any earlier patent applications for this invention.

PATENT

REEL: 036730 FRAME: 0716

NP-14152-US-B
TSMC-2-13-1100

THIS IS PAGE 2 OF AN ASSIGNMENT FROM THE INVENTOR(S) TO
ASSIGNEE: TAIWAN SEMICONDUCTOR MANUFACTURING CO., LTD.
INVENTION TITLE: ADVANCED PROCESS CONTROL METHOD FOR
CONTROLLING WIDTH OF SPACER AND DUMMY SIDEWALL IN
SEMICONDUCTOR DEVICE

As to all U.S. patent applications assigned under this agreement, the ASSIGNOR(S) hereby authorize(s) and request(s) the Commissioner of Patents and Trademark to issue all Letters Patent to the ASSIGNEE as the assignee of the entire right, title and interest, for the sole use and enjoyment of said ASSIGNEE, its successors and assigns.

Further, the ASSIGNOR(S) agree(s) to communicate to said ASSIGNEE, or its representatives, any fact known to the ASSIGNOR(S) with respect to said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal, reexamination and reissue applications; execute all necessary assignment papers to cause and all Letter Patent to be issued to said ASSIGNEE, make all rightful oaths and generally do everything necessary or desirable to aid said ASSIGNEE, its successors and assigns, to obtain and enforce proper protection for said invention.

The ASSIGNOR(S) authorize(s) the attorneys and agents who have the power of attorney in this application to check any appropriate boxes and to insert the Serial Number and filing date in this document after it has been executed.

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|---------------------------------|---------------------------|------------------|
| <u>Hsien-Chieh TSAI</u> | <u>Hsien-Chieh TSAI</u> | <u>2013/11/6</u> |
| Name of sole or first-inventor | Signature | Date |
| <u>Tz-Wei LIN</u> | <u>Tz-Wei LIN</u> | <u>2013/11/6</u> |
| Name of second inventor, if any | Signature | Date |
| <u>Sheng-Jen YANG</u> | <u>Sheng-Jen YANG</u> | <u>2013/11/6</u> |
| Name of third inventor, if any | Signature | Date |
| <u>Hung-Yin LIN</u> | <u>Hung-Yin LIN</u> | <u>2013/11/6</u> |
| Name of fourth inventor, if any | Signature | Date |
| <u>Cherng-Chang TSUEI</u> | <u>Cherng Chang Tsuei</u> | <u>11/6/2013</u> |
| Name of fifth inventor, if any | Signature | Date |
| <u>Chen-Hsiang LU</u> | <u>Chen-Hsiang LU</u> | <u>11/6/2013</u> |
| Name of sixth inventor, if any | Signature | Date |