PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5079803

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MIN-YING TSAI	03/22/2016
YEUR-LUEN TU	03/22/2016

RECEIVING PARTY DATA

Name:	TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY LTD.	
Street Address:	NO. 8, LI-HSIN RD. 6	
Internal Address:	HSINCHU SCIENCE PARK	
City:	HSINCHU	
State/Country:	TAIWAN	
Postal Code:	300-78	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16046495

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	20151333 / 24061.3501US02	
NAME OF SUBMITTER:	JANIE MARTINEZ-HOLM	
SIGNATURE:	/Janie Martinez-Holm/	
DATE SIGNED:	08/02/2018	

Total Attachments: 2

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PATENT REEL: 046537 FRAME: 0076 505033052

ASSIGNMENT

WHEREAS, I(we), <u>TSAI, MIN-YING</u>, <u>TU, YEUR-LUEN</u> whose post office address(es) appear(s) below, hereinafter referred to as ASSIGNOR, have invented certain new and useful invention entitled

SEMICONDUCTOR STRUCTURE AND MANUFACTURING METHOD THEREOF

(hereinafter referred to as the INVENTION) for which an application for United States Letters Patent /Utility Patent is executed on even date herewith unless at least one of the following is checked:

☐ United States Design Patent was
☐ executed on:
☐ filed on:
☐ established by PCT International Patent Application No.:
☐ established by PCT International Patent Application No.:
☐ issued on _____ as U.S. Patent No.:______

WHEREAS, <u>TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY LTD.</u> whose post office address is <u>NO.8</u>, <u>LI-HSIN RD. 6</u>, <u>HSINCHU SCIENCE PARK</u>, <u>HSINCHU</u>, <u>TAIWAN</u>, <u>R.O.C.</u> hereinafter referred to as ASSIGNEE, is desirous of acquiring the entire right, title and interest in and to the same in the United States and its territorial possessions;

NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, I (we), ASSIGNOR, by these presents do sell, assign and transfer unto said ASSIGNEE, the entire right, title, and interest in and to said INVENTION and application throughout the United States of America, including any and all Letters Patent granted on any division, continuation, continuation-in-part and reissue of said application for the full term or terms for which the same may be granted, including all priority rights under any International Convention.

ASSIGNOR further covenants that no assignments, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this Assignment;

ALSO, ASSIGNOR hereby agrees to execute any documents that legally may be required in connection with the filing, prosecution and maintenance of said application or any other patent application(s) in the United States for said INVENTION, including additional documents that may be required to affirm the rights of ASSIGNEE in and to said INVENTION, all without further consideration. ASSIGNOR also agrees, without further consideration and at ASSIGNEE'S expense, to identify and communicate to ASSIGNEE at ASSIGNEE'S request documents and information concerning the INVENTION that are within ASSIGNOR'S possession or control, and to provide further assurances and testimony on behalf of ASSIGNEE that lawfully may be required of ASSIGNOR in respect of the prosecution, maintenance, litigation and defense of any patent application or patent encompassed within the terms of this instrument. ASSIGNOR'S obligations under this instrument shall extend to ASSIGNOR'S heirs, executors, administrators and other legal representatives.

ALSO, ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all Letters Patent referred to above to ASSIGNEE, as the ASSIGNEE of the entire right, title and interest in and to the same, for ASSIGNEE'S sole use and behoof; and for the use and behoof of ASSIGNEE'S legal representatives and successors, to the full end of the term for which such Letters Patent may be granted, as fully and entirely as the same would have been held by ASSIGNOR had this assignment and sale not been made.

Assignor Name TSAI, MIN-YING	Address NO.8, LI-HSIN RD. 6, HSINCHU SCIENCE PARK, HSINCHU, TAIWAN (R.O.C.)
Signature of Assignor (X) Min-Ying TS W	Date of Signature (X) 2016, $3/22$.
Name of Witness (optional)	Name of Witness (optional)
Signature of Witness (optional)	Signature of Witness (Optional)

PATENT REEL: 046537 FRAME: 0077

Assignor Name TU, YEUR-LUEN	Address NO. 3-6, LANE 12, GONG-XUE RD., TAICHUNG, TAIWAN (R.O.C.)
Signature of Assignor (X) Name of Winess (optional)	Date of Signature (X) 70/6, 3/22 Name of Witness (optional)
Signature of Witness (optional)	Signature of Witness (Optional)

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