

<b>PATENT ASSIGNMENT COVER SHEET</b>
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Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT3920230

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
WEI-CHENG SHEN	05/10/2016
YI-HSIEN CHANG	05/10/2016
YI-HENG TSAI	05/10/2016
CHUN-REN CHENG	05/10/2016
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY LTD.
<b>Street Address:</b>	NO.8, LI-HSIN RD. 6, HSINCHU SCIENCE PARK
<b>City:</b>	HSINCHU
<b>State/Country:</b>	TAIWAN
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15168848
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<b>NAME OF SUBMITTER:</b>	ANTHONY KING
<b>SIGNATURE:</b>	/Anthony King/
<b>DATE SIGNED:</b>	06/15/2016
<b>Total Attachments: 3</b>	
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source=Assignment_18506-1007#page2.tif	
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**ASSIGNMENT**

WHEREAS, I(we), SHEN, WEI-CHENG, CHANG, YI-HSIEN, TSAL, YI-HENG and CHENG, CHUN-REN whose post office address(es) appear(s) below, hereinafter referred to as ASSIGNOR, have invented certain new and useful invention entitled

**SEMICONDUCTOR STRUCTURE AND METHOD FOR FABRICATING THE SAME**

(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: \_\_\_\_\_ Serial No.: \_\_\_\_\_
- established by PCT International Patent Application No.: \_\_\_\_\_ filed: \_\_\_\_\_ designating the United States of America
- issued on \_\_\_\_\_ as U.S. Patent No.: \_\_\_\_\_

WHEREAS, TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY LTD., whose post office address is NO.8, LI-HSIN RD. 6, HSINCHU SCIENCE PARK, HSINCHU, TAIWAN, R.O.C. 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 SHEN, WEI-CHENG	Address NO.7, LN. 305, ZHENGQIANG ST., YONGKANG DIST., TAINAN CITY 710, TAIWAN (R.O.C.)
Signature of Assignor (X) <i>Wei-cheng, Shen</i>	Date of Signature (X) <i>2016.5/10</i>
Name of Witness (optional)	Name of Witness (optional)
Signature of Witness (optional)	Signature of Witness (Optional)

Assignor Name CHANG, YI-HSIEN	Address NO.28, ALY. 119, LN. 247, SEC. 2, YUANJI RD., SHETOU TOWNSHIP, CHANGHUA COUNTY 511, TAIWAN (R.O.C.)
Signature of Assignor (X) <i>Yi-Hsien Chang</i>	Date of Signature (X) 2016/5/10
Name of Witness (optional)	Name of Witness (optional)
Signature of Witness (optional)	Signature of Witness (Optional)

Assignor Name TSAI, YI-HENG	Address 3F-2, NO. 40, LANE 576, SEC. 1, GUANG-FU RD, HSINCHU, TAIWAN (R.O.C.)
Signature of Assignor (X) <i>Tsai Yi-Heng</i>	Date of Signature (X) 2016/5/10
Name of Witness (optional)	Name of Witness (optional)
Signature of Witness (optional)	Signature of Witness (Optional)

Assignor Name CHENG, CHUN-REN	Address 8F-2, 123-1, 89 ALLEY, KUANG-FU ROAD, HSIN-CHU CITY, TAIWAN (R.O.C.)
Signature of Assignor (X) <i>Cheng, Chun-Ren</i>	Date of Signature (X) 2016/5/10
Name of Witness (optional)	Name of Witness (optional)
Signature of Witness (optional)	Signature of Witness (Optional)

Anthony S. King, M.S., J.D.<sup>†</sup>  
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<sup>†</sup>Licensed to practice in California,  
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Patent & Trademark Office

June 15, 2016

### DECLARATION

I, the undersigned attorney of record, Anthony King, hereby declare as follow:

1. The herein attached Assignment document refers to U.S. Patent Application number 15/168,848.
2. The herein attached Assignment was signed by the inventors prior to the U.S. patent filing date, but was not recorded with the Office of Assignment Recordation on the U.S. patent filing date to due clerical error.
3. The purpose of this Declaration is to link the attached Assignment document to the respective U.S. patent application.
4. I hereby declare that all statements made herein of my own knowledge are true and that statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Title 18, United States Code, Section 1001, and that such willful false statements may jeopardized the validity of the application or any patent issued thereon.

Respectfully submitted,  
WPAT, P.C.

Anthony King  
Registration No. 49, 063