505799161 12/02/2019

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE: CORRECTIVE ASSIGNMENT **NATURE OF CONVEYANCE:** Corrective Assignment to correct the THE SPELLING OF AN INVENTOR'S NAME previously recorded on Reel 046015 Frame 0873. Assignor(s) hereby confirms the ASSIGNMENT.

CONVEYING PARTY DATA

Name	Execution Date
YU-LING CHANG CHIEN	11/12/2019
CHIEN-CHIH CHEN	11/22/2019
CHIN-HSIANG LIN	11/22/2019
CHING-YU CHANG	11/12/2019
YAHRU CHENG	11/12/2019

RECEIVING PARTY DATA

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Postal Code:	300		

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15905501

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ATTORNEY DOCKET NUMBER: 095714-0372 NAME OF SUBMITTER: LYNN CRUZ SIGNATURE: /LYNN CRUZ/ 12/02/2019 DATE SIGNED:

PATENT **REEL: 051159 FRAME: 0896** 505799161

Total Attachments: 4

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PATENT REEL: 051159 FRAME: 0897 Attorney Docket No. 095714-0372 (P20170572US00)

COMBINED DECLARATION AND ASSIGNMENT FOR PATENT APPLICATION

As a below named inventor, I hereby declare that:

I believe I am the original or an original joint inventor of a claimed invention in the application for which a patent is sought on the invention entitled:

METHOD FOR MANUFACTURING A SEMICONDUCTOR DEVICE AND A COATING MATERIAL

which	application is:
	attached, or
⊠ 	United States application number or PCT international application number 905,501 filed on <u>February 26, 2018</u>
The al	pove-identified application was made or authorized to be made by me.
In the	event that the filing date and/or application number are not entered above at

In the event that the filing date and/or application number are not entered above at the time I execute this document, and if such information is deemed necessary, I hereby authorize and request the registered practitioners of McDermott Will & Emery LLP, associated with the Customer Number 20277, to insert above the filing date and/or application number of the application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

ASSIGNMENT

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I hereby assign to

TAIWAN SEMICONDUCTOR MANUFACTURING CO., LTD. No. 8, Li-Hsin Rd. 6, Science Based Industrial Park, Hsinchu, Taiwan 300

(hereinafter designated as the Assignee), the entire (100%) right, title and interest for the United States as defined in 35 USC §100, in the invention described in the application identified in this document.

I hereby confirm any prior assignment to Assignee, and to the extent that I have not already done so, agree to assign, and hereby do, sell, assign and transfer unto Assignee and its successors in interest, the full and exclusive right, title and interest in the United States of America and throughout the world, including the right to claim priority under the laws of the United States, the Paris Convention, and any foreign countries, to the inventions as described in the aforesaid application, to the aforesaid application itself, and all divisions, continuations, continuations-in-part, or other applications claiming priority directly or indirectly from the aforesaid application, and any United States or foreign Letters Patent, utility model, or other similar rights which may be granted thereon, including reissues, reexaminations and extensions thereof, and all copyright rights throughout the world in the aforesaid application and the subject matter disclosed therein, these rights, title and interest to be held and enjoyed by Assignee to the full end of the term for which the Letters Patent, utility model, or other similar rights, are granted and any extensions thereof as fully and entirely as the same would have been held by the undersigned had this assignment and sale not been made, and the right to sue for, and recover for past infringements of, or liabilities for, any of the rights relating to any of the applications, patents, utility models, or other similar rights, resulting therefrom, and the copyright rights;

I hereby covenant and agree to execute all instruments or documents required or requested for the making and prosecution of any applications of any type for patent, utility model, or other similar rights, and for copyright, in the United States and in all foreign countries including, but not limited to, any provisional, continuation, continuation-in-part, divisional, renewal or substitute thereof, and as to letters patent any reissue, re-examination, or extension thereof, and for litigation regarding, or for the purpose of protecting title and to the said invention, the United States application for patent, or Letters Patent therefor, and to testify in support thereof, for the benefit of Assignee without further or other compensation than that above set forth;

I hereby covenant that no assignment, sale, license, agreement or encumbrance has been or will be entered into which would conflict with this Assignment.

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Attorney Docket No. 095714-0372 (P20170572US00)

Legal name of inventor	
Yu-Ling Chang CHIEN	
Inventor's signature	Date
Ta-Ling Chang CHIEN	2019/11/1:
Legal name of inventor	
Chien-Chih CHEN	
Inventor's signature	Date
	1
Legal name of inventor Chin-Hsiang LIN	
Inventor's signature	Date
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Legal name of inventor	
Ching-Yu CHANG	
Inventor's signature	Date
Ching-yn change	2018/11/12
Legal name of inventor	
Yahru CHENG	
Inventor's signature	Date
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Attorney Docket No. 095714-0372 (P20170572US00)

Legal name of inventor	
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Inventor's signature	Date
Legal name of inventor	3
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