#### 12/21/2017 504700331

## PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
CHAO-CHING CHENG	10/26/2017
YU-LIN YANG	10/26/2017
WEI-SHENG YUN	10/26/2017
CHEN-FENG HSU	10/26/2017
TUNG YING LEE	10/26/2017
TZU-CHIANG CHEN	10/26/2017

### **RECEIVING PARTY DATA**

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

### **PROPERTY NUMBERS Total: 1**

Property Type	Number	
Application Number:	15798270	

## **CORRESPONDENCE DATA**

Fax Number: (202)756-8087

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 202-756-8000

fdellishad@mwe.com, ipdocketmwe@mwe.com, Email:

wdcipptsclerks@mwe.com

**Correspondent Name:** MCDERMOTT WILL & EMERY LLP Address Line 1: 500 NORTH CAPITOL STREET, N.W.

Address Line 4: WASHINGTON, D.C. 20001

ATTORNEY DOCKET NUMBER:	095714-0376
NAME OF SUBMITTER:	TAKASHI SAITO
SIGNATURE:	/Takashi Saito/
DATE SIGNED:	12/21/2017

## **Total Attachments: 3**

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(2)

Attorney Docket No. 095714-0376 (P20171334US00)

(TT)

## **COMBINED DECLARATION AND ASSIGNMENT FOR PATENT APPLICATION**

As a below named inventor, I hereby declare that:

which application is:

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 OF MANUFACTURING A SEMICONDUCTOR DEVICE AND A SEMICONDUCTOR DEVICE

	••
$\boxtimes$	attached, or
	United States application number or PCT international application number filed on
Γhe al	pove-identified application was made or authorized to be made by me.
ime l autho associ	event that the filing date and/or application number are not entered above at the execute this document, and if such information is deemed necessary, I hereby rize and request the registered practitioners of <b>McDermott Will &amp; Emery LLP</b> , ated with the Customer Number <b>20277</b> , to insert above the filing date and/or ation number of the application.
	eby acknowledge that any willful false statement made in this declaration is hable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years h.

### **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.

Page 2 of 3

Legal name of inventor	
Chao-Ching Cheng	
Inventor's signature	Date
	2017-10.36.
Chao-Ching Cheng	1201/-10.20.
Legal name of inventor	
Yu-Lin Yang Inventor's signature	Data
inventor's signature	Date
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Las Lin Pany	
V	
Legal name of inventor	:
Wei-Sheng Yun	
Inventor's signature	Date
Wei-Shenz Yun	2017,00.26
Legal name of inventor	
Chen-Feng Hsu	
Inventor's signature	Date
7 11	2017 10, 26
Chen-Feng Msu	101/10, 10,
J	
Legal name of inventor	
Tung Ying Lee	
Inventor's signature	Date
Turker	2017,10,26
Tung Try Lac	
•	
Legal name of inventor	
Tzu-Chiang Chen	
Inventor's signature	Date
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1zh-Chiang Chen	2017,10,76
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Page 3 of 3

**RECORDED: 12/21/2017**