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PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
KAM-TOU SIO	03/13/2017
JIANN-TYNG TZENG	03/13/2017
CHARLES CHEW-YUEN YOUNG	03/24/2017
YI-MING SHEU	03/16/2017
CHUN-FU CHENG	03/24/2017
YI-HAN WANG	03/24/2017

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15471318

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	252011-6370
NAME OF SUBMITTER:	DANIEL R. MCCLURE
SIGNATURE:	/Daniel R. McClure/
DATE SIGNED:	03/28/2017

Total Attachments: 3 source=00441634#page1.tif source=00441634#page2.tif source=00441634#page3.tif

ASSIGNMENT

WHEREAS, Kam-Tou SIO, Jiann-Tyng TZENG, Charles Chew-Yuen YOUNG, Yi-Ming SHEU, Chun-Fu CHENG, and Yi-Han WANG

hereafter referred to as ASSIGNOR, has/have invented certain new and useful improvements as described and set forth in the below identified application for United States Letters Patent:

Title:	STRUCTURE	AND	FORMATION	METHOD	OF	SEMI	ICONDUC	TOR	DEVICE
	<u> JCTURE</u>					_			
Filed: Execu	ited on:			Serial No.					
WHE	REAS. Taiwan S	Semico	nductor Manufac	turing Co	 Ltd	of No	R Li-Hein		

WHEREAS, <u>Taiwan Semiconductor Manufacturing Co., Ltd.</u>, of <u>No. 8, Li-Hsin Rd. 6, Hsinchu Science Park, Hsinchu 300-78, Taiwan R.O.C.</u>, hereinafter referred to as ASSIGNEE, is desirous of acquiring ASSIGNOR'S interest in the said invention and application and in any U.S. Letters Patent which may be granted on the same;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for good and valuable consideration, receipt of which is hereby acknowledged by Assignor, Assignor has/have sold, assigned and transferred, and by these presents does/do sell, assign and transfer unto the said Assignee, and Assignee's successors and assigns, all his/her/their rights, title and interest in and to the said invention and application and all future improvements thereon, and in and to any Letters Patent which may hereafter be granted on the same in the United States, the said interest to be held and enjoyed by said Assignee as fully and exclusively as it would have been held and enjoyed by said Assignor had this Assignment and transfer not been made, to the full end and term of any Letters Patent which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

Assignor further agrees/agree that he/she/they will, without charge to said Assignee, but at Assignee's expense, cooperate with Assignee in the prosecution of said application and/or applications, execute, verify, acknowledge and deliver all such further papers, including applications for Letters Patent and for the reissue thereof, and instruments of assignment and transfer thereof, and will perform such other acts as Assignee lawfully may request, to obtain or maintain Letters Patent for said invention and improvement, and to vest title thereto in said Assignee, or Assignee's successors and assigns.

IN TESTIMONY WHEREOF, Assignor has/have signed his/her/their name(s) on the date(s) indicated.

P20160951US00/0503-B31638-US

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ASSIGNMENT

2017.3.13.	Kar Tar Sio.	
Date	Name: Kam-Tou SIO	(Last name: SIO)
901/) 3, /3 Date	John Tyng Frag Name: Jiann-Tyng TZENG	(Leather TZTING)
	Name. Sami-Tyng 12.6NG	(Last name: TZENG)
2017. 3, W	Name: Charles Chew Yuen YOUNG	(Lort rows VOLDIC)
Sate	Name: Charles Chew-then 100NG	(Last name: YOUNG)
Deta		
Date	Name: Yi-Ming SHEU	(Last name: SHEU)
2017. 3. 24.	Chur-Fu Cheng	
Date	Name: Chun-Fu CHENG	(Last name: CHENG)
2017,3,24	Yi Han Wang Name: Yi-Han WANG	
Date	Name: Yi-Han WANG	(Last name: WANG)

ASSIGNIVILIY I

Date	Name: Kam-Tou SIO	(Last name: SIO)
Date	Name: Jiann-Tyng TZENG	(Last name: TZENG)
Date	Name: Charles Chew-Yuen YOUNG	(Last name: YOUNG)
Maw/16/2017 Date	Name: Yi-Ming SHEU	(Last name: SHEU)
	V	
Date	Name: Chun-Fu CHENG	(Last name: CHENG)
Date	Name: Yi-Han WANG	(Last name: WANG)

RECORDED: 03/28/2017

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