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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
HUNG-LI CHIANG	07/11/2017
I-SHENG CHEN	07/11/2017
TZU-CHIANG CHEN	07/11/2017
CHAO-CHING CHENG	07/11/2017
CHIH-CHIEH YEH	07/11/2017
YEE-CHIA YEO	07/11/2017

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:	15652628

CORRESPONDENCE DATA

Fax Number: (404)521-4286

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.

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MCCLURE, QUALEY & RODACK, LLP **Correspondent Name:** 3100 INTERSTATE NORTH CIRCLE Address Line 1:

Address Line 2: **SUITE 150**

Address Line 4: ATLANTA, GEORGIA 30339

ATTORNEY DOCKET NUMBER:	252011-6700
NAME OF SUBMITTER:	DANIEL R. MCCLURE
SIGNATURE:	/Daniel R. McClure/
DATE SIGNED:	07/26/2017

Total Attachments: 2 source=00476320#page1.tif

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ASSIGNMENT

WHEREAS, Hung-Li CHIANG, I-Sheng CHEN, Tzu-Chiang CHEN, Chao-Ching CHENG, Chih-Chieh YEH, and Yee-Chia YEO

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:

Tiuc.	SEMICONDUCTOR DEVICE	SIKUCIUKE WI	<u>i ii semiicondu</u>	LIOK WIKE
Filed:	2017-07-18	Serial No.	15/652,628	
Execu	ited on:			

Tide SEMICONDUCTOD BEVICE STRUCTURE WITH SEMICONDUCTOR WIDE

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.

P20170603US00/0503-B32302-US

ASSIGNMENT

2017. 67.11	Hung-Li CHIANG	hiang
Date	Name: Hung-Li CHIANG	(Last name: CHIANG)
<u>>017.67.11</u> Date	I - Sheng CHEN Name: I-Sheng CHEN	(Last name: CHEN)
2017.07.11	Tzh-Chrang Name: Tzu-Chiang CHEN	Chen
Date	Name: Tzu-Chiang CHEN V	(Last name: CHEN)
7017.07.11	Chao-Ching (Theng.
Date	Name: Chao-Ching CHENG	(Last name: CHENG)
$\frac{2\sqrt{1}}{\text{Date}} = \frac{1}{\sqrt{1}} $	Name: Chih-Chieh YEH	(Last name: YEH)
Jul. 11, 2017	Yee-Chri	Ywo.
Date	Name: Yee-Chia YEO	(Last name: YEO)

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RECORDED: 07/26/2017

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