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PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT3961717

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
CHUN-WEI HSU	07/11/2016
CHI-JEN LIU	07/11/2016
CHENG-CHUN CHANG	07/11/2016
YI-SHENG LIN	07/11/2016
LIANG-GUANG CHEN	07/11/2016

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:	15210037

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	252011-6010
NAME OF SUBMITTER:	DANIEL R. MCCLURE
SIGNATURE:	/Daniel R. McClure/
DATE SIGNED:	07/14/2016

Total Attachments: 2

PATENT REEL: 039157 FRAME: 0386 source=00365276#page1.tif source=00365276#page2.tif

> PATENT REEL: 039157 FRAME: 0387

ASSIGNMENT

WHEREAS, Chun-Wei HSU, Chi-Jen LIU, Cheng-Chun CHANG, Yi-Sheng LIN, and					
Liang-Guang CHEN					
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: FORMATION METHOD OF SEMICONDUCTOR DEVICE STRUCTURE					
Filed: Serial No.					
Executed on:					
WHEREAS, Taiwan Semiconductor Manufacturing Co., Ltd., of No. 8, Li-Hsin Rd. 6, Hsinchu					
WHEREAS, Taiwan Semiconductor Manufacturing Co., Ltd., of No. 8, Li-Hsin Rd. 6, Hsinchu					
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					

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.

P20160370US00/0503-B31182-US

Patent which may be granted on the same:

PATENT REEL: 039157 FRAME: 0388

ASSIGNMENT

2016.7.11	Chan Wei Hav	,
Date	Name: Chun-Wei HSU	(Last name: HSU)
2016.7.11	Chi-Ten Liu	
Date	Name: Chi-Jen LIU	(Last name: LIU)
2016, 7.11 Date	Meng - Chun Chang Name: Cheng-Chun CHANG	(Last name: CHANG)
2016. 7. 11 Date	Yi-Sheng Lin Name: Yi-Sheng LIN	(Last name: LIN)
20 (b. 5.11 Date	Liang-Guang Chen Name: Liang-Guang CHEN	(Last name: CHEN)