505729919 10/18/2019

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT		
NATURE OF CONVEYANCE:	ASSIGNMENT		

CONVEYING PARTY DATA

Name	Execution Date
JU-WANG HSU	04/25/2007
CHIH-YUAN TING	04/25/2007
TANG-XUAN ZHONG	04/25/2007
YI-NIEN SU	04/25/2007
JANG-SHIANG TSAI	04/25/2007

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:	16657035				

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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Address Line 2: SUITE 550

Address Line 4: ATLANTA, GEORGIA 30339

ATTORNEY DOCKET NUMBER:	252011-4322
NAME OF SUBMITTER:	DANIEL R. MCCLURE
SIGNATURE:	/Daniel R. McClure/
DATE SIGNED:	10/18/2019

Total Attachments: 2

PATENT REEL: 050759 FRAME: 0527

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> PATENT REEL: 050759 FRAME: 0528

ASSIGNMENT

WHEREAS, Ju-Wang HSU, Chih-Yuan Ting, Tang-Xuan ZHONG, Yi-Nien SU and Jang-Shiang TSAI 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:	FIN	FIELD	EFFECT	TRANSISTOR	AND	METHOD	OF	FORMING	THE	SAME	
Filed:						Serial	No.				
Execut	ed on:	Apri	1 25, 2	007							

WHEREAS, Taiwan Semiconductor Manufacturing Co., Ltd. of No. 8, Li-Hsin Rd. 6, Science-Based Industrial Park, Hsin-Chu, Taiwan 300-77, R.O.C. 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.

Assigner further agrees/agree that he/she/they will, without charge to said Assignee, but at Assignees 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.

TSMC2004-1294/0503-A31711US

PATENT REEL: 050759 FRAME: 0529

Ju-Wang HSU	4/75/2007 Date:
Chih-Yuan Ting	4(25 / 2007) Date:
Tang-Xuan Zhong Tang-Xuan ZHONG	4/zt /2 007 Date:
Men (w Yi-Nien Su	707 / 04 / 75 Date:
Jang-Shiang TSAI	2007/08/25

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PATENT REEL: 050759 FRAME: 0530

RECORDED: 10/18/2019