PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:		NEW ASSIGNMENT					
NATURE OF CONVEYANCE:		ASSIGNMENT					
CONVEYING PARTY DATA							
<u> </u>			lame	Execution Date			
Kuo-Cheng Ching				07/29/2013			
Ting-Hung Hsu				07/28/2013			
RECEIVING PARTY DATA							
Name:	Taiwan Semiconductor Manufacturing Company, Ltd.						
Street Address:	No. 8, Li-Hsin	No. 8, Li-Hsin Rd. 6, Science-Based Industrial Park					
City:	Hsin-Chu	Hsin-Chu					
State/Country:							
Postal Code:	300-77	300-77					
PROPERTY NUMBERS Total: 1							
Property Type			Number				
Application Number: 13957		139575	00				
CORRESPONDENCE DATA Fax Number: 2142000853 Correspondence will be sent via US Mail when the fax attempt is unsuccessful.							
Fax Number:2142000853Correspondence will be sent via US Mail when the fax attempt is unsuccessful.Phone:972-739-8635Email:ipdocketing@haynesboone.comCorrespondent Name:HAYNES AND BOONE, LLP IP SectionAddress Line 1:2323 Victory AvenueAddress Line 2:Suite 700Address Line 4:Dallas, TEXAS 75219							
ATTORNEY DOCKET NUMBER:			24061.2538				
NAME OF SUBMITTER:		Linda Ingram					
Signature:			/Linda Ingram/				
Date:			08/02/2013				
Total Attachments: 2 source=2538_Assignment#page1.tif source=2538_Assignment#page2.tif							

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ASSIGNMENT

WHEREAS, we,

(1)	Kuo-Cheng Ching	of	5F., No.8-3, Guangming 9th Rd. Zhubei City, Hsinchu County 302 Taiwan R.O.C.
(2)	Ting-Hung Hsu	of	No. 1-57, ChiaMing Community ChiaHsin Village, MiaoLi Taiwan R.O.C.

have invented certain improvements in

SEMICONDUCTOR DEVICE AND FABRICATING THE SAME

for which we have executed an application for Letters Patent of the United States of America,

_____ of even date filed herewith; and filed on August 2, 2013, and assigned application number <u>13/957,500</u>; and

WHEREAS, we authorize the attorney of record to update this document to include Patent Office information as deemed necessary (i.e., filing date, serial number, etc.);

WHEREAS, Taiwan Semiconductor Manufacturing Company, Ltd., ("TSMC"), No. 8, Li-Hsin Rd. 6, Science-Based Industrial Park Hsin-Chu, Taiwan 300-77, Republic of China. is desirous of obtaining the entire right, title, and interest in, to and under the said invention and the said application in the United States of America and in any and all countries foreign thereto;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, and other good and valuable consideration, we have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said TSMC, its successors, legal representatives, and assigns, the entire right, title, and interest in, to and under the said invention, and the said application, and all divisional, renewal, substitutional, and continuing applications thereof, and all Letters Patent of the United States of America which may be granted thereon and all reissues and extensions thereof, and all applications for Letters Patent which may be filed for said invention in any country or countries foreign to the United States of America, and all extensions, renewals, and reissues thereof, and all prior patents and patent applications from which a filing priority of the above-described patent application may be obtained, including the right to collect past damages; and we hereby authorize and request the Commissioner of Patents of the United States of America, and any official of any country or countries foreign to the United States of America, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said invention to the said TSMC, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant that we have full right to convey the entire interest herein assigned, and that we have not executed, and will not execute, any agreement in conflict herewith.

AND WE HEREBY further covenant and agree that we will communicate to said TSMC, its successors, legal representatives and assigns, any facts known to us respecting said invention, and testify in any legal proceedings, sign all lawful papers, execute all divisional, renewal,

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substitutional, continuing, and reissue applications, make all rightful declarations and/or oaths and generally do everything possible to aid the said TSMC, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said invention in all countries.

Kuo-Cheng Ching Inventor Name: Residence Address: 5F., No.8-3, Guangming 9th Rd. Zhubei City, Hsinchu County 302 Taiwan R.O.C. $\frac{w - (Mu)}{\text{Inventor Signature}}$ Dated: 2013 /--07 Inventor Name: Ting-Hung Hsu Residence Address: No. 1-57, ChiaMing Community ChiaHsin Village, MiaoLi, Taiwan R.O.C. <u>Tàp-Hung</u>, Hsu Inventor Signature 013 101/21 Dated: - 2 -R-2538 - Assignment (7-25).docx

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