

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	DA-YUAN LEE	01/24/2014
	KUANG-YUAN HSU	01/24/2014
RECEIVING PARTY DATA		
Name:	Taiwan Semiconductor Manufacturing Company, Ltd., ("TSMC")	
Street Address:	No. 8, Li-Hsin Rd. 6	
Internal Address:	Science-Based Industrial Park	
City:	Hsin-Chu	
State/Country:	TAIWAN	
Postal Code:	300-77	
PROPERTY NUMBERS Total: 1		
Property Type	Number	
Application Number:	14104656	
CORRESPONDENCE DATA		
Fax Number:	(214)200-0853	
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>		
Phone:	5128678528	
Email:	Kim.Reyes@haynesboone.com	
Correspondent Name:	HAYNES AND BOONE, LLP	
Address Line 1:	IP SECTION, 2323 VICTORY AVENUE	
Address Line 2:	SUITE 700	
Address Line 4:	DALLAS, TEXAS 75219	
ATTORNEY DOCKET NUMBER:	2011-0185-D / 24061.2769	
NAME OF SUBMITTER:	Y. KIM REYES	
SIGNATURE:	/Y. Kim Reyes/	
DATE SIGNED:	03/10/2014	
Total Attachments: 2		
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ASSIGNMENT

WHEREAS, we,

(1) **Da-Yuan Lee** of 10F., No.172, Section 2, Jiafong S. Road
Jhubei City, Hsinchu County
302 Taiwan (R.O.C.)

(2) **Kuang-Yuan Hsu** of No. 7, Lane 190, Beiyang Road
Fengyuan District
Taichung City 420, Taiwan (R.O.C.)

have invented certain improvements in

GATE DIELECTRIC OF SEMICONDUCTOR DEVICE

for which we have executed an application for Letters Patent of the United States of America, filed on December 12, 2013 and assigned application number 14/104,656; 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, substitutional, continuing, and reissue

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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.

Inventor Name: **Da-Yuan Lee**

Residence Address: 10F., No.172, Section 2, Jiafong S. Road
Jhubei City, Hsinchu County
302 Taiwan (R.O.C.)

Dated: 01/24/2014

Da-Yuan Lee
Inventor Signature

Inventor Name: **Kuang-Yuan Hsu**

Residence Address: No. 7, Lane 190, Beiyang Road
Fengyuan District
Taichung City 420, Taiwan (R.O.C.)

Dated: 01/24/2014

Kuang-Yuan Hsu
Inventor Signature