PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Hung-Wen Hsu	05/06/2013
Tung-Ting Wu	05/07/2013
Jiech-Fun Lu	05/06/2013
Yeur-Luen Tu	05/06/2013
Chia-Shiung Tsai	05/06/2013

RECEIVING PARTY DATA

Name:	Taiwan Semiconductor Manufacturing Company, Ltd.	
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:	13802732	

CORRESPONDENCE DATA

Fax Number:

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 214-651-5000

Email: ipdocketing@haynesboone.com

Correspondent Name: Haynes and Boone, LLP

Address Line 1: 2323 Victory Avenue Suite 700

Address Line 4: Dallas, TEXAS 75219

ATTORNEY DOCKET NUMBER: 2012-1013/24061.2341

NAME OF SUBMITTER: Scott Matthews

REEL: 030533 FRAME: 0426

PATENT

D \$40.00 13802732

502369359

Signature:	/sm82918/
Date:	06/03/2013
Total Attachments: 3 source=Assign13802732#page1.tif source=Assign13802732#page2.tif source=Assign13802732#page3.tif	

PATENT REEL: 030533 FRAME: 0427

Docket No.: 2012-1013 / 24061.2341

Customer No.: 42717

ASSIGNMENT

WHEREAS, we,

(1)	Hung-Wen Hsu	of	No.2, Alley 42, Lane 111, Sec. 6, Jun-an Road Annan District, Tainan City 709, Taiwan R.O.C.
(2)	Tung-Ting Wu	of	5F., No.5, Alley 1, Lane 343, Sec. 3, Neihu Road Neihu District, Taipei City 114, Taiwan R.O.C.
(3)	Jiech-Fun Lu	of	No.157-2, Jhongshan Road Madou Township, Tainan County 721, Taiwan R.O.C.
(4)	Yeur-Luen Tu	of	No. 3-6, Lane 12, Gong-Xue Road Taichung, Taiwan R.O.C.
(5)	Chia-Shiung Tsai	of	No. 5, 50 Alley, 62 Lane, Gua-Tsuey Road Hsin-Chu, Taiwan R.O.C.

have invented certain improvements in

SYSTEM AND METHOD FOR PREVENTING ETCH ARCING DURING SEMICONDUCTOR PROCESSING

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

	of even date filed herewith; and			
X	filed on 03/14/2013 and assigned application number 13/802,732; as	nd		

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

-1-

Docket No.: 2012-1013 / 24061.2341

Customer No.: 42717

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 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:
HIACHIOL	rame.

Hung-Wen Hsu

Residence Address:

No.2, Alley 42, Lane 111, Sec. 6, Jun-an Road

Annan District, Tainan City 709, Taiwan R.O.C.

Dated: Hung-Wan Han

Hurg-Wen Hen
Inventor Signature

Inventor Name:

Tung-Ting Wu

Residence Address:

5F., No.5, Alley 1, Lane 343, Sec. 3, Neihu Road Neihu District, Taipei City 114, Taiwan R.O.C.

Dated: 2013,05.07

Tarib C

Inventor Name:

Jiech-Fun Lu

Residence Address:

No.157-2, Jhongshan Road

Madou Township, Tainan County 721, Taiwan R.O.C.

Dated: 3013,05.06

Trech Fran Lu Inventor Signature

Docket No.: 2012-1013 / 24061.2341

Customer No.: 42717

Inventor Name:

Yeur-Luen Tu

Residence Address:

No. 3-6, Lane 12, Gong-Xue Road

Taichung, Taiwan R.O.C.

Dated: 2013,05.06

Inventor Signature

Inventor Name:

Chia-Shiung Tsai

Residence Address:

No. 5, 50 Alley, 62 Lane, Gua-Tsuey Road

Hsin-Chu, Taiwan R.O.C.

Dated: 201), " 5.

Inventor Signature

R-24061.2341 - Assignment.docx

RECORDED: 06/03/2013

PATENT REEL: 030533 FRAME: 0430