PATENT ASSIGNMENT

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SUBMISSION TYPE: NEW ASSIGNMENT

NATURE OF CONVEYANCE: ASSIGNMENT

CONVEYING PARTY DATA

	Name	Execution Date
Cł	hing-Yu CHANG	08/14/2009

RECEIVING PARTY DATA

Nar	me:	TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY, LTD.
Stre	eet Address:	No. 8, Li-Hsin Rd. 6
Inte	ernal Address:	Science-Based Industrial Park
City	y :	Hsin-Chu
Sta	te/Country:	TAIWAN
Pos	stal Code:	300-77

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12536805

CORRESPONDENCE DATA

Fax Number: (214)200-0853

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

Phone: 2146515000

Email: eppsl@haynesboone.com

Correspondent Name: Haynes and Boone, LLP - IP Section
Address Line 1: 2323 Victory Avenue, Suite 700

Address Line 4: Dallas, TEXAS 75219

ATTORNEY DOCKET NUMBER: 24061.1138

NAME OF SUBMITTER: David M. O'Dell

Total Attachments: 2

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PATENT REEL: 023712 FRAME: 0174 12536

CH \$40.00

Docket No.: 2008-0498 / 24061.1138

Customer No. 42717

ASSIGNMENT

WHEREAS, I

Ching-Yu Chang

of

No. 17, Hsinchen Road, Yuansun Village Yilang County 264, Taiwan, R.O.C.

has invented certain improvements in

METHOD OF FORMING A SACRIFICIAL LAYER

for which I have ex	secuted an application for Letters Patent of the United States of America,
xx	of even date filed herewith; and filed on <u>August 6, 2009</u> and assigned application number <u>12/536,805</u> and

WHEREAS, I 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 One Dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, and other good and valuable consideration, I 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 I 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 I HEREBY covenant that I have full right to convey the entire interest herein assigned, and that I have not executed, and will not execute, any agreement in conflict herewith.

AND I HEREBY further covenant and agree that I 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.

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Docket No.: 2008-0498 / 24061.1138

Customer No. 42717

Inventor Name:

Ching-Yu Chang

Residence Address:

No. 17, Hsinchen Road, Yuansun Village

Yilang County 264, Taiwan, R.O.C.

Dated: / Sug 14, 2009

Inventor Signature

R-232416

RECORDED: 12/29/2009

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