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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
Chung-Shi Liu	12/03/2008
Hsiang-Yi Wang	12/09/2008
Cheng-Tung Lin	12/09/2008
Chen-Hua Yu	12/09/2008

#### **RECEIVING PARTY DATA**

Name:	Taiwan Semiconductor Manufacturing Company, Ltd.	
Street Address:	No. 8, Li-Hsin Road 6	
City:	Hsin-Chu	
State/Country:	TAIWAN	
Postal Code:	300-77	

### PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12354558

### **CORRESPONDENCE DATA**

Fax Number: (214)200-0853

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

Address Line 2: Suite 700

Address Line 4: Dallas, TEXAS 75219

ATTORNEY DOCKET NUMBER:	24061.1160
NAME OF SUBMITTER:	Liem T. Do

Total Attachments: 4

PATENT REEL: 022115 FRAME: 0392

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> PATENT REEL: 022115 FRAME: 0393

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Docket No.: 2008-0373 / 24061.1160

Customer No.: 42717

#### ASSIGNMENT

WHEREAS, we,			
(1)	Chung-Shi Liu	of	No. 10, Alley 41, Lanc 139, Chia-Chiao Road Shin-Chu, Taiwan, R. O.C.
(2)	Hsiang-Yi Wang	of	Room B, 5F, No. 33, Jinshan 9th Street Hsin-Chu City 300, Taiwan, R.O.C.
(3)	Cheng-Tung Lin	of	5F, No. 6, Alley 39, Lane 152, Sec. 2, Jhongsing Rd. Hsinchu 300, Taiwan, R.O.C.
(4)	Chen-Hua Yu	of	No. 3, 38 Waterfront Road 2 Hsin-Chu, Taiwan, R.O.C.

have invented certain improvements in

## ADVANCED METAL GATE METHOD AND DEVICE

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 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, 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.

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R-1160 - Assignment

Docket No.: 2008-0373 / 24061.1160

Customer No.: 42717

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:	Chung-Shi Liu	
Residence Address:	No. 10, Alley 41, Lane 139, C Shin-Chu, Taiwan, R. O.C.	_
Dated: 2008/	1 ×/3	Lhung-Shi Ch Inventor Signature
Inventor Name:	Hsiang-Yi Wang	
Residence Address:	Room B, 5F, No. 33, Jinshan Hsin-Chu City 300, Taiwan, F	
Dated:	<del></del>	Inventor Signature
Inventor Name:	Cheng-Tung Lin	
Residence Address:	5F, No. 6, Alley 39, Lane 152 Hsinchu 300, Taiwan, R.O.C.	, Sec. 2, Jhongsing Rd.
Dated:		Inventor Signature
		-

Docket No.: 2008-0373 / 24061.1160

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Inventor Name:	Chung-Shi Liu
Residence Address:	No. 10, Alley 41, Lane 139, Chia-Chiao Road Shin-Chu, Taiwan, R. O.C.
Dated:	Inventor Signature
Inventor Name:	Hsiang-Yi Wang
Residence Address:	Room B, 5F, No. 33, Jinshan 9th Street Hsin-Chu City 300, Taiwan, R.O.C.
Dated: >008/	12/09 HSiang-Yi Wang Inventor Signature
Inventor Name:	Cheng-Tung Lin
Residence Address:	5F, No. 6, Alley 39, Lane 152, Sec. 2, Jhongsing Rd. Hsinchu 300, Taiwan, R.O.C.
Dated: 2008/12/	Open Clarg - Tung Lin Inventor Signature (

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Docket No.: 2008-0373 / 24061.1160

Customer No.: 42717

Inventor Name:

Chen-Hua Yu

Residence Address:

No. 3, 38 Waterfront Road 2

Hsin-Chu, Taiwan, R.O.C.

nventor Signature

R-1160 - Assignment

**RECORDED: 01/15/2009** 

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PATENT REEL: 022115 FRAME: 0397