

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT														
NATURE OF CONVEYANCE:	ASSIGNMENT														
CONVEYING PARTY DATA															
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr><td>Matt Yeh</td><td>09/03/2009</td></tr> <tr><td>Hui Ouyang</td><td>09/03/2009</td></tr> <tr><td>Da-Yuan Lee</td><td>09/04/2009</td></tr> <tr><td>Kuang-Yuan Hsu</td><td>09/04/2009</td></tr> <tr><td>Hun-Jan Tao</td><td>09/04/2009</td></tr> <tr><td>Xiong-Fei Yu</td><td>09/04/2009</td></tr> </tbody> </table>		Name	Execution Date	Matt Yeh	09/03/2009	Hui Ouyang	09/03/2009	Da-Yuan Lee	09/04/2009	Kuang-Yuan Hsu	09/04/2009	Hun-Jan Tao	09/04/2009	Xiong-Fei Yu	09/04/2009
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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 20%;">Name:</td><td>Taiwan Semiconductor Manufacturing Company, Ltd.</td></tr> <tr><td>Street Address:</td><td>No. 8, Li-Hsin Road 6</td></tr> <tr><td>City:</td><td>Hsin-Chu</td></tr> <tr><td>State/Country:</td><td>TAIWAN</td></tr> <tr><td>Postal Code:</td><td>300-77</td></tr> </table>		Name:	Taiwan Semiconductor Manufacturing Company, Ltd.	Street Address:	No. 8, Li-Hsin Road 6	City:	Hsin-Chu	State/Country:	TAIWAN	Postal Code:	300-77				
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CORRESPONDENCE DATA															
<p>Fax Number: (214)200-0853 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 214-651-5000 Email: ipdocketing@haynesboone.com</p> <p>Correspondent Name: HAYNES AND BOONE, LLP Address Line 1: 2323 Victory Avenue Address Line 2: Suite 700 Address Line 4: Dallas, TEXAS 75219</p>															
ATTORNEY DOCKET NUMBER:	24061.1303														

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PATENT
REEL: 023340 FRAME: 0825

NAME OF SUBMITTER:

Rachel L.I. Davis

Total Attachments: 3

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Docket No.: 2009-0298 (2009-0308) / 24061.1303
Customer No.: 42717

ASSIGNMENT

WHEREAS, we,

- | | | | |
|-----|----------------|----|--|
| (1) | Matt Yeh | of | 6F, 6, Ching-San Street 28
Hsinchun, Taiwan, R.O.C. |
| (2) | Hui Ouyang | of | 7F, No. 288, Wenping Road
Chubei City, Hsinchu County 302, Taiwan, R.O.C. |
| (3) | Da-Yuan Lee | of | 10F, No. 172, Sec. 2, Jiafong S. Road
Jhubei City, Hsinchu County 302, Taiwan, R.O.C. |
| (4) | Kuang-Yuan Hsu | of | No. 7, Lane 190, Beiyang Road
Fongyuan City, Taichung County 402, Taiwan, R.O.C. |
| (5) | Hun-Jan Tao | of | 13F-3, No. 17, Lane 175, Wu-Ling Road
Hsinchu, Taiwan, R.O.C. |
| (6) | Xiong-Fei Yu | of | No. 59, #2F-1, North Jinshan Street 2
Hsinchu 300, Taiwan R.O.C. |

have invented certain improvements in

METHODS FOR A GATE REPLACEMENT PROCESS

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 10-7-09 and assigned application number _____; 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 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

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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 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: Matt Yeh

Residence Address: 6F, 6, Ching-San Street 28
Hsinchun, Taiwan, R.O.C.

Dated: 9/3 '09

Matt Yeh
Inventor Signature

Inventor Name: Hui Ouyang

Residence Address: 7F, No. 288, Wenping Road
Chubei City, Hsinchu County 302, Taiwan, R.O.C.

Dated: 9/3 '09

Hui Ouyang
Inventor Signature

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Inventor Name: Da-Yuan Lee

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

Dated: 2009. Sept. 04

Da-Yuan Lee
Inventor Signature

Inventor Name: Kuang-Yuan Hsu

Residence Address: No. 7, Lane 190, Beiyang Road
Fongyuan City, Taichung County 402, Taiwan, R.O.C.

Dated: 2009/9/4

Kuang-Yuan Hsu
Inventor Signature

Inventor Name: Hun-Jan Tao

Residence Address: 13F-3, No. 17, Lane 175, Wu-Ling Road
Hsinchu, Taiwan, R.O.C.

Dated: 2009/9/4

Hun-Jan Tao
Inventor Signature

Inventor Name: Xiong-Fei Yu

Residence Address: No. 1, Lane 188, Yuping Road, East District
Hsinchu 300, Taiwan R.O.C.

Dated: 2009/9/4

yu xiongfei.
Inventor Signature