

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>Ryan Chia-Jen CHEN</td><td>11/10/2008</td></tr> <tr><td>Yih-Ann LIN</td><td>11/10/2008</td></tr> <tr><td>Jr Jung LIN</td><td>11/10/2008</td></tr> <tr><td>Yi-Shien MOR</td><td>11/10/2008</td></tr> <tr><td>Chien-Hao CHEN</td><td>11/10/2008</td></tr> <tr><td>Kuo-Tai HUANG</td><td>11/11/2008</td></tr> <tr><td>Yi-Hsing CHEN</td><td>11/10/2008</td></tr> </tbody> </table>		Name	Execution Date	Ryan Chia-Jen CHEN	11/10/2008	Yih-Ann LIN	11/10/2008	Jr Jung LIN	11/10/2008	Yi-Shien MOR	11/10/2008	Chien-Hao CHEN	11/10/2008	Kuo-Tai HUANG	11/11/2008	Yi-Hsing CHEN	11/10/2008
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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Name:</td><td>TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY, LTD.</td></tr> <tr><td>Street Address:</td><td>No. 8, Li-Hsin Rd. 6</td></tr> <tr><td>Internal Address:</td><td>Science-Based Industrial Park</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 Rd. 6	Internal Address:	Science-Based Industrial Park	City:	Hsin-Chu	State/Country:	TAIWAN	Postal Code:	300-77				
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CORRESPONDENCE DATA																	
<p>Fax Number: (214)200-0853</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 972-739-8635</p> <p>Email: eppsl@haynesboone.com</p> <p>Correspondent Name: David M. O'Dell</p> <p>Address Line 1: HAYNES AND BOONE, LLP IP Section</p> <p>Address Line 2: 2323 Victory Avenue, Suite 700</p> <p>Address Line 4: Dallas, TEXAS 75219</p>																	

CH \$40.00 12478509

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PATENT
REEL: 023185 FRAME: 0059

ATTORNEY DOCKET NUMBER:	24061.1080
NAME OF SUBMITTER:	David M. O'Dell
<p>Total Attachments: 4</p> <p>source=1080_assignment#page1.tif</p> <p>source=1080_assignment#page2.tif</p> <p>source=1080_assignment#page3.tif</p> <p>source=1080_assignment#page4.tif</p>	

Docket No.: 2008-0367 (-0388) / 24061.1080
Customer No.: 42717

ASSIGNMENT

WHEREAS, we,

- | | | | |
|-----|--------------------|----|---|
| (1) | Ryan Chia-Jen Chen | of | No. 182, Minchuan Road
Chiayi, Taiwan, R.O.C. |
| (2) | Yih-Ann Lin | of | No. 21, Lane 66, Fuguei Street
Jhudong Township, Hsinchu County 310, Taiwan, R.O.C. |
| (3) | Jr Jung Lin | of | No. 21, Lane 495, Sec. 1, Jhongshan Road
Wurih Township, Taichung County 414, Taiwan, R.O.C. |
| (4) | Yi-Shien Mor | of | 3F, No. 221, Guandong Road
Hsinchu City 300, Taiwan, R.O.C. |
| (5) | Chien-Hao Chen | of | No. 37, Sec. 6, Chuangbin Road
Chuangwei Township, Ilan County, Taiwan, R.O.C. |
| (6) | Kuo-Tai Huang | of | 17 Alley 37, Lane 72, Kwanghua 2nd Street
Hsinchu, Taiwan, R.O.C. |
| (7) | Yi-Hsing Chen | of | No. 3-1, Lane 128, Cihsiou Road
Changhua City, Changhua County 500, Taiwan, R.O.C. |

have invented certain improvements in

METHOD OF INTEGRATING HIGH-K/METAL GATE IN CMOS PROCES FLOW

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

_____ of even date filed herewith; and
_____ filed on _____ and assigned application no. _____ 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,

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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.

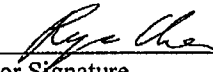
AND WE HEREBY covenant that we have full right to convey the entire interest herein assigned, and that we have not executed, and will not execute, any agreement in conflict herewith.

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 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: Ryan Chia-Jen Chen

Residence Address: No. 182, Minchuan Road
Chiayi, Taiwan, R.O.C.


Dated: 11/10/08'


Inventor Signature

Inventor Name: Yih-Ann Lin

Residence Address: No. 21, Lane 66, Fuguei Street
Jhudong Township, Hsinchu County 310, Taiwan, R.O.C.

Dated: Yih-Ann Lin
11/10/08'


Inventor Signature

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Inventor Name: Jr Jung Lin

Residence Address: No. 21, Lane 495, Sec. 1, Jhongshan Road
Wurih Township, Taichung County 414, Taiwan, R.O.C.

Dated: 11/10/08

Lin Jr Jung
Inventor Signature

Inventor Name: Yi-Shien Mor

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Dated: 11/10 2008

Yi-Shien Mor
Inventor Signature

Inventor Name: Chien-Hao Chen

Residence Address: No. 37, Sec. 6, Chuangbin Road
Chuangwei Township, Ilan County, Taiwan, R.O.C.

Dated: 11/10 2008

Chien-Hao Chen
Inventor Signature

Inventor Name: Kuo-Tai Huang

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Dated: 11/11 2008

Kuo-Tai Huang
Inventor Signature

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Inventor Name: Yi-Hsing Chen

Residence Address: 3F, No. 2-6, Bamboo Rd., 7th Hsinchu Science Park
Changhua City, Changhua County 500, Taiwan, R.O.C.

Dated: 11/10 '08

Yi-Hsing Chen
Inventor Signature
