

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Chiung-Han Yeh</td> <td>02/20/2009</td> </tr> <tr> <td>Sheng-Chen Chung</td> <td>02/20/2009</td> </tr> <tr> <td>Kong-Beng Thei</td> <td>02/20/2009</td> </tr> <tr> <td>Harry Chuang</td> <td>02/20/2009</td> </tr> </tbody> </table>		Name	Execution Date	Chiung-Han Yeh	02/20/2009	Sheng-Chen Chung	02/20/2009	Kong-Beng Thei	02/20/2009	Harry Chuang	02/20/2009
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Kong-Beng Thei	02/20/2009										
Harry Chuang	02/20/2009										
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											
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12488960</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12488960						
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CORRESPONDENCE DATA											
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ATTORNEY DOCKET NUMBER:	24061.1144										
NAME OF SUBMITTER:	Liem T. Do										

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**PATENT
 REEL: 022857 FRAME: 0486**

Total Attachments: 3

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ASSIGNMENT

WHEREAS, we,

- (1) Chiung-Han Yeh of No. 214, Dawu Street, North District
Tainan City 704, Taiwan, R.O.C.
- (2) Sheng-Chen Chung of 6F, No. 55-1, Jhuangjing 5th Street
Jhubei City, Hsinchu County 302, Taiwan, R.O.C.
- (3) Kong-Beng Thei of No. 186, Nan-Kang Road, Pao-Shan Village
Hsin-Chu Country, Taiwan, R.O.C.
- (4) Harry Chuang of 18-59 Lane 85, Fu-Chuan Street
Hsin-Chu City, Taiwan, R.O.C.

have invented certain improvements in

**METHOD FOR TUNING A WORK FUNCTION OF
HIGH-K METAL GATE DEVICES**

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

_____ of even date filed herewith; and
_____ filed on 6-22-2009 and assigned application number 12/488,960; 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 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.

Docket No.: 2008-0507 / 24061.1144

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: Chiung-Han Yeh

Residence Address: No. 214, Dawu Street, North District
Tainan City 704, Taiwan, R.O.C.

Dated: 2/20 '09

Chiung-Han Yeh
Inventor Signature

Inventor Name: Sheng-Chen Chung

Residence Address: 6F, No. 55-1, Jhuangjing 5th Street
Jhubei City, Hsinchu County 302, Taiwan, R.O.C.

Dated: 2/20 '09

[Signature]
Inventor Signature

Inventor Name: Kong-Beng Thei

Residence Address: No. 186, Nan-Kang Road, Pao-Shan Village
Hsin-Chu Country, Taiwan, R.O.C.

Dated: 2/20 '09

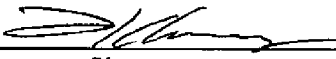
[Signature]
Inventor Signature

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Inventor Name: Harry Chuang

Residence Address: 18-59 Lane 85, Fu-Chuan Street
Hsin-Chu City, Taiwan, R.O.C.

Dated: 2-20-2009


Inventor Signature