

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>Han-Pin Chung</td> <td>03/05/2010</td> </tr> <tr> <td>Bor Chiu-an Hsieh</td> <td>03/05/2010</td> </tr> <tr> <td>Shiang-Bau Wang</td> <td>03/05/2010</td> </tr> <tr> <td>Ming-Jie Huang</td> <td>03/05/2010</td> </tr> </tbody> </table>		Name	Execution Date	Han-Pin Chung	03/05/2010	Bor Chiu-an Hsieh	03/05/2010	Shiang-Bau Wang	03/05/2010	Ming-Jie Huang	03/05/2010
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Ming-Jie Huang	03/05/2010										
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>12721399</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12721399						
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Application Number:	12721399										
CORRESPONDENCE DATA											
Fax Number:	(214)200-0853										
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
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ATTORNEY DOCKET NUMBER:	24061.1444										
NAME OF SUBMITTER:	Liem T. Do										
Total Attachments: 3											

CH \$40.00 12721399

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**PATENT
 REEL: 024061 FRAME: 0171**

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Docket No.: 2009-0203 / 24061.1444
Customer No.: 42717

ASSIGNMENT

WHEREAS, we,

- | | | | |
|-----|------------------|----|---|
| (1) | Han-Pin Chung | of | No. 108, Nanjiang Street
Fongyuan City, Taichung County 830, Taiwan, R.O.C. |
| (2) | Bor Chiuan Hsieh | of | 9F, No. 22-2, Sec. 2, Dasing W. Road
Taoyuan City, Taoyuan County 330, Taiwan, R.O.C. |
| (3) | Shiang-Bau Wang | of | 6F, No. 2, Lane 65, Guangming Road
Pingzcheng City, Taoyuan County 324, Taiwan, R.O.C. |
| (4) | Ming-Jie Huang | of | 10F-2, No. 383, Sec. 2, Gongdao 5th Road, East District
Hsinchu City 300, Taiwan, R.O.C. |

have invented certain improvements in

METHOD OF DUAL EPI PROCESS FOR SEMICONDUCTOR DEVICE

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

_____ of even date filed herewith; and
_____ filed on March 10, 2010 and
assigned application no. 12/721,399 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.

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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: Han-Pin Chung

Residence Address: No. 108, Nanjiang Street
Fongyuan City, Taichung County 830, Taiwan, R.O.C.

Dated: 2010.03.05

Han Pin Chung
Inventor Signature

Inventor Name: Bor Chiuan Hsieh

Residence Address: 9F, No. 22-2, Sec. 2, Dasing W. Road
Taoyuan City, Taoyuan County 330, Taiwan, R.O.C.

Dated: Bor Chiuan Hsieh
2010.03.05

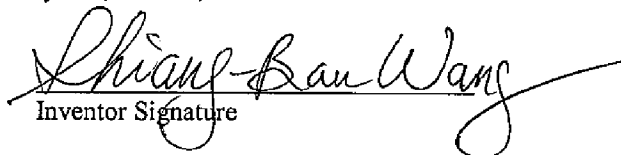
Bor Chiuan Hsieh
Inventor Signature

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Inventor Name: Shiang-Bau Wang

Residence Address: 6F, No. 2, Lane 65, Guangming Road
Pingzcheng City, Taoyuan County 324, Taiwan, R.O.C.

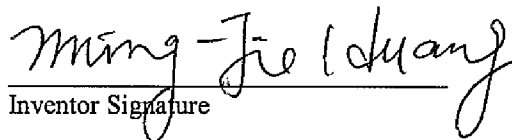
Dated: 3/5/2010


Inventor Signature

Inventor Name: Ming-Jie Huang

Residence Address: 10F-2, No. 383, Sec. 2, Gongdao 5th Road, East District
Hsinchu City 300, Taiwan, R.O.C.

Dated: 3/5/2010


Inventor Signature