

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>Wei-Yuan LU</td> <td>01/20/2012</td> </tr> <tr> <td>Li-Ping HUANG</td> <td>02/01/2012</td> </tr> <tr> <td>Han-Ting TSAI</td> <td>02/01/2012</td> </tr> <tr> <td>Wei-Ching WANG</td> <td>02/01/2012</td> </tr> <tr> <td>Ming-Shuan LI</td> <td>02/03/2012</td> </tr> <tr> <td>Hsueh-Jen YANG</td> <td>02/03/2012</td> </tr> <tr> <td>Kuan-Chung CHEN</td> <td>02/01/2012</td> </tr> </tbody> </table>		Name	Execution Date	Wei-Yuan LU	01/20/2012	Li-Ping HUANG	02/01/2012	Han-Ting TSAI	02/01/2012	Wei-Ching WANG	02/01/2012	Ming-Shuan LI	02/03/2012	Hsueh-Jen YANG	02/03/2012	Kuan-Chung CHEN	02/01/2012
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RECEIVING PARTY DATA																	
Name:	TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY, LTD.																
Street Address:	No. 8, Li-Hsin Rd. VI, Hsinchu Science Park																
City:	Hsinchu																
State/Country:	TAIWAN																
Postal Code:	300																
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>13356207</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13356207												
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Application Number:	13356207																
CORRESPONDENCE DATA																	
Fax Number:	(703)518-5499																
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Email:	tsmc@ipfirm.com																
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>																	
Correspondent Name:	Lowe Hauptman Ham & Berner, LLP (TSMC)																
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OP \$40.00 13356207

NAME OF SUBMITTER:

Randy A. Noranbrock

Total Attachments: 2

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ASSIGNMENT

In consideration of the premises and other good and valuable consideration in hand paid, the receipt and sufficiency of which is hereby acknowledged, the undersigned,

- 1) Wei-Yuan LU
- 2) Li-Ping HUANG
- 3) Han-Ting TSAI
- 4) Wei-Ching WANG
- 5) Ming-Shuan LI
- 6) Hsueh-Jen YANG
- 7) Kuan-Chung CHEN

who has made a certain new and useful invention, hereby sells, assigns and transfers unto

TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY, LTD. having a place of business at No. 8, Li-Hsin Rd. VI, Hsinchu Science Park, Hsinchu 300, Taiwan (R.O.C.)

its successors and assigns (hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100 in the invention entitled

SEMICONDUCTOR DEVICE AND METHOD OF FORMING THE SAME

(a) for which an application for United States Letters Patent was filed on 2012-01-23, and identified by United States Patent Application No. 13/356,207; or

(b) for which an application for United States Letters Patent was executed on _____,

and the undersigned hereby authorizes and requests the United States Commissioner of Patents and Trademarks to issue any and all United States Letters Patent which may be granted therefore and any and all extensions, divisions, reissues, continuations, or continuations-in-part thereof, and the right to all benefits under the International Convention for the Protection of Industrial Property to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agrees that the attorneys of record in said application shall hereafter act on behalf of said ASSIGNEE;

AND the undersigned hereby agrees to transfer a like interest, and to render all necessary assistance in making application for and obtaining original, divisional, reissued or extended Letters Patent of the United States, upon request of the said ASSIGNEE, its successors, assigns and legal representatives, and without further remuneration, in and to any improvements, and applications for patent based thereon, growing out of or related to the said invention; and to execute any papers by the said ASSIGNEE, its successors, assigns and legal representatives, deemed essential to ASSIGNEE's full protection and title in and to the invention hereby transferred.

SIGNED on the date indicated aside my signature:

1) ✓ Wei-Yuan LU
Name: Wei-Yuan LU

✓ 2012/01/20
Date:

2) ✓ Li-Ping HUANG
Name: Li-Ping HUANG

✓ 2012/2/1
Date:

3) ✓ Han-Ting TSAI
Name: Han-Ting TSAI

✓ 2012/2/1
Date:

4) ✓ Wei-ching Wang
Name: Wei-Ching WANG

✓ 2012/2/1
Date:

5) ✓ Ming-Shuan-Li
Name: Ming-Shuan LI

✓ 2012/2/3
Date:

6) ✓ Hsueh-Jen Yang
Name: Hsueh-Jen YANG

✓ 2012/4/3
Date:

7) ✓ Kuan-Chung CHEN
Name: Kuan-Chung CHEN

✓ 2012/2/1
Date: