

## 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>Cheok-Kei LEI</td> <td>02/28/2012</td> </tr> <tr> <td>Yi-Tang LIN</td> <td>03/01/2012</td> </tr> <tr> <td>Hsiao-Hui CHEN</td> <td>02/29/2012</td> </tr> <tr> <td>Yu-Ning CHANG</td> <td>02/29/2012</td> </tr> <tr> <td>Shu-Yu CHEN</td> <td>02/28/2012</td> </tr> <tr> <td>Chien-Wen CHEN</td> <td>02/29/2012</td> </tr> <tr> <td>Chih-Sheng CHANG</td> <td>03/02/2012</td> </tr> <tr> <td>Clement Hsingjen WANN</td> <td>03/07/2012</td> </tr> </tbody> </table>		Name	Execution Date	Cheok-Kei LEI	02/28/2012	Yi-Tang LIN	03/01/2012	Hsiao-Hui CHEN	02/29/2012	Yu-Ning CHANG	02/29/2012	Shu-Yu CHEN	02/28/2012	Chien-Wen CHEN	02/29/2012	Chih-Sheng CHANG	03/02/2012	Clement Hsingjen WANN	03/07/2012
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<table border="1"> <tr> <td>Name:</td> <td>TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY, LTD.</td> </tr> <tr> <td>Street Address:</td> <td>No. 8, Li-Hsin Rd. VI, Hsinchu Science Park</td> </tr> <tr> <td>City:</td> <td>Hsinchu</td> </tr> <tr> <td>State/Country:</td> <td>TAIWAN</td> </tr> <tr> <td>Postal Code:</td> <td>300</td> </tr> </table>		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								
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Application Number:	13416642																		
CORRESPONDENCE DATA																			
Fax Number:	(703)518-5499																		
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<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>																			
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ATTORNEY DOCKET NUMBER:	T5057-B463U
NAME OF SUBMITTER:	Randy A. Noranbrock
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Docket No. T5057-B463U  
TSMC2010-1184

## 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) Cheok-Kei LEI  | 5) Shu-Yu CHEN           |
| 2) Yi-Tang LIN    | 6) Chien-Wen CHEN        |
| 3) Hsiao-Hui CHEN | 7) Chih-Sheng CHANG      |
| 4) Yu-Ning CHANG  | 8) Clement Hsingjen WANN |

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

SYSTEM AND METHODS FOR CONVERTING PLANAR DESIGN TO FINFET DESIGN

(a) for which an application for United States Letters Patent was filed on 2012-03-09, and identified by United States Patent Application No. 13/416,642; 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) LEI CHEOK KEI 李煒基  
Name: Cheok-Kei LEI

2012/02/28  
Date:

2) Yi-Tang Lin 林以唐  
Name: Yi-Tang LIN

2012/03/01  
Date:

3) Hsiao-Hui Chen 陳小惠  
Name: Hsiao-Hui CHEN

2012/02/29  
Date:

4) Yu-Ning Chang 張祐寧  
Name: Yu-Ning CHANG

5) Shu-Yu Chen 陳姝宇  
Name: Shu-Yu CHEN

6) Chien-Wen Chen 陳建文  
Name: Chien-Wen CHEN

7) Chih-Sheng Chang 張智勝  
Name: Chih-Sheng CHANG

8) Clement Wan  
Name: Clement Hsingjen WANN

2012/02/29  
Date:

2012/02/28  
Date:

2012/02/28  
Date:

2012/03/02  
Date:

3/7/2012  
Date: