

## PATENT ASSIGNMENT COVER SHEET

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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>KUO-YU CHENG</td> <td>11/27/2013</td> </tr> <tr> <td>WEI-KUNG TSAI</td> <td>11/27/2013</td> </tr> <tr> <td>KUAN-CHI TSAI</td> <td>11/27/2013</td> </tr> </tbody> </table>		Name	Execution Date	KUO-YU CHENG	11/27/2013	WEI-KUNG TSAI	11/27/2013	KUAN-CHI TSAI	11/27/2013		
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<table border="1"> <tr> <td>Name:</td> <td>TAIWAN SEMICONDUCTOR MANUFACTURING CO., LTD.</td> </tr> <tr> <td>Street Address:</td> <td>NO. 8, LI-HSIN ROAD. 6, 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 CO., LTD.	Street Address:	NO. 8, LI-HSIN ROAD. 6, SCIENCE-BASED INDUSTRIAL PARK	City:	HSIN-CHU	State/Country:	TAIWAN	Postal Code:	300-77
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Application Number:	14081624										
CORRESPONDENCE DATA											
Fax Number:	(703)205-8050										
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<i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i>											
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ATTORNEY DOCKET NUMBER:	0941-2854PUS1										
NAME OF SUBMITTER:	KARA E CRESTWELL										
Signature:	/kara e crestwell/										
Date:	12/24/2013										
Total Attachments: 2 source=2013_12_26_ASSIGNMENT_0941-2854PUS1#page1.tif source=2013_12_26_ASSIGNMENT_0941-2854PUS1#page2.tif											

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**ASSIGNMENT**

WHEREAS, Kuo-Yu CHENG, Wei-Kung TSAI, and Kuan-Chi TSAI  
hereafter referred to as ASSIGNOR, has/have invented certain new and useful improvements as described and set forth in the below identified application for United States Letters Patent:

Title: MECHANISMS FOR FORMING SEMICONDUCTOR DEVICE STRUCTURE  
WITH FLOATING SPACER

Filed: November 15, 2013 Serial No. 14/081,624

Executed on: November 27, 2013

WHEREAS, Taiwan Semiconductor Manufacturing Co., Ltd. of No.8, Li-Hsin Road, 6, Science-Based Industrial Park, Hsin-Chu, Taiwan 300-77, R.O.C., hereinafter referred to as ASSIGNEES, is desirous of acquiring ASSIGNOR'S interest in the said invention and application and in any U.S. Letters Patent which may be granted on the same;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for good and valuable consideration, receipt of which is hereby acknowledged by Assignor, Assignor has/have sold, assigned and transferred, and by these presents does/do sell, assign and transfer unto the said Assignee, and Assignee's successors and assigns, all his/her/their rights, title and interest in and to the said invention and application and all future improvements thereon, and in and to any Letters Patent which may hereafter be granted on the same in the United States, the said interest to be held and enjoyed by said Assignee as fully and exclusively as it would have been held and enjoyed by said Assignor had this Assignment and transfer not been made, to the full end and term of any Letters Patent which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

Assignor further agrees/agree that he/she/they will, without charge to said Assignee, but at Assignee's expense, cooperate with Assignee in the prosecution of said application and/or applications, execute, verify, acknowledge and deliver all such further papers, including applications for Letters Patent and for the reissue thereof, and instruments of assignment and transfer thereof, and will perform such other acts as Assignee lawfully may request, to obtain or maintain Letters Patent for said invention and improvement, and to vest title thereto in said Assignee, or Assignee's successors and assigns.

IN TESTIMONY WHEREOF, Assignor has/have signed his/her/their name(s) on the date(s) indicated.

### ASSIGNMENT

2013/11/27      Kuo-Yu Cheng.  
 Date                      Name: Kuo-Yu CHENG                      (Last name: CHENG)

2013/11/27      Wei-Kung Tsai  
 Date                      Name: Wei-Kung TSAI                      (Last name: TSAI)

2013/12/14      Kuan-Chi Tsai  
 Date                      Name: Kuan-Chi TSAI                      (Last name: TSAI)