

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>Hung-Pin CHANG</td> <td>03/05/2010</td> </tr> <tr> <td>Wen-Chih CHIOU</td> <td>03/05/2010</td> </tr> <tr> <td>Chen-Hua YU</td> <td>03/05/2010</td> </tr> </tbody> </table>		Name	Execution Date	Hung-Pin CHANG	03/05/2010	Wen-Chih CHIOU	03/05/2010	Chen-Hua YU	03/05/2010
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Hung-Pin CHANG	03/05/2010								
Wen-Chih CHIOU	03/05/2010								
Chen-Hua YU	03/05/2010								
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>12722949</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12722949				
Property Type	Number								
Application Number:	12722949								
CORRESPONDENCE DATA									
Fax Number:	(703)518-5499								
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>									
Phone:	7036841111								
Email:	sramunto@ipfirm.com								
Correspondent Name:	LOWE HAUPTMAN HAM & BERNER, LLP								
Address Line 1:	1700 DIAGONAL ROAD								
Address Line 2:	SUITE 300								
Address Line 4:	ALEXANDRIA, VIRGINIA 22314								
ATTORNEY DOCKET NUMBER:	T5057-Y020U								
NAME OF SUBMITTER:	Yoon S. Ham								
Total Attachments: 1 source=efiledassgn#page1.tif									

OP \$40.00 12722949

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) **Hung-Pin CHANG**
- 2) **Wen-Chih CHIOU**
- 3) **Chen-Hua YU**

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, Taiwan 300, 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

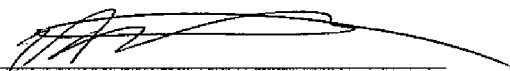
VIA STRUCTURE AND VIA ETCHING PROCESS OF FORMING THE SAME

- (a) for which an application for United States Letters Patent was filed on 3-12-10, and identified by United States Patent Application No. 12/722,949; 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.

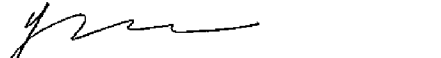
SIGNED on the date indicated aside my signature:

1) 
Name: **Hung-Pin CHANG**

03/05/2010
Date:

2) 
Name: **Wen-Chih CHIOU**

3/5 2010
Date:

3) 
Name: **Chen-Hua YU**

3/5/10
Date: