

# PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT																		
NATURE OF CONVEYANCE:	ASSIGNMENT																		
<b>CONVEYING PARTY DATA</b>																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr><td>Albert Wu</td><td>01/25/2011</td></tr> <tr><td>Roawen Chen</td><td>01/25/2011</td></tr> <tr><td>Chung Chyung Han</td><td>01/25/2011</td></tr> <tr><td>Shiann-Ming Liou</td><td>01/25/2011</td></tr> <tr><td>Chien-Chuan Wei</td><td>01/25/2011</td></tr> <tr><td>Runzi Chang</td><td>01/25/2011</td></tr> <tr><td>Scott Wu</td><td>01/25/2011</td></tr> <tr><td>Chuan-Cheng Cheng</td><td>01/25/2011</td></tr> </tbody> </table>		Name	Execution Date	Albert Wu	01/25/2011	Roawen Chen	01/25/2011	Chung Chyung Han	01/25/2011	Shiann-Ming Liou	01/25/2011	Chien-Chuan Wei	01/25/2011	Runzi Chang	01/25/2011	Scott Wu	01/25/2011	Chuan-Cheng Cheng	01/25/2011
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<b>RECEIVING PARTY DATA</b>																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 20%;">Name:</td><td>Marvell Semiconductor, Inc.</td></tr> <tr><td>Street Address:</td><td>5488 Marvell Lane</td></tr> <tr><td>City:</td><td>Santa Clara</td></tr> <tr><td>State/Country:</td><td>CALIFORNIA</td></tr> <tr><td>Postal Code:</td><td>95054</td></tr> </table>		Name:	Marvell Semiconductor, Inc.	Street Address:	5488 Marvell Lane	City:	Santa Clara	State/Country:	CALIFORNIA	Postal Code:	95054								
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<b>CORRESPONDENCE DATA</b>																			
Fax Number: (408)222-2755 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> Phone: 408-222-2500 Email: hng@marvell.com Correspondent Name: Horace Ng Address Line 1: 5488 Marvell Lane Address Line 4: Santa Clara, CALIFORNIA 95054																			
ATTORNEY DOCKET NUMBER:	MP3885																		

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**REEL: 025724 FRAME: 0906**

**PATENT**

NAME OF SUBMITTER:

Horace Ng

Total Attachments: 2

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ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, I, the undersigned,

**Albert Wu, Roawen Chen, Chung Chyung Han, Shiann-Ming Liou, Chien-Chuan Wei,  
Runzi Chang, Scott Wu and Chuan-Cheng Cheng**

who have created a certain invention for which an application for United States Letters Patent was executed by me concurrently herewith and entitled:

**RECESSED SEMICONDUCTOR SUBSTRATES AND ASSOCIATED TECHNIQUES**

Do hereby sell, assign and transfer to Marvell Semiconductor, Inc., a corporation of California, having a place of business at 5488 Marvell Lane, Santa Clara, CA 95054, its successors, assigns, and legal representatives, the full and exclusive right to said invention and said application and to any and all inventions described in said application for the United States, its territorial possessions and all foreign countries, and the entire right, title and interest in and to any and all Letters Patent which may be granted therefore in the United States, its territorial possessions and all foreign countries; and in and to any and all continuations-in-part, continuations, divisions, substitutes, reissues, extensions thereof, and all other applications for Letters Patent relating thereto which have been or shall be filed in the United States, its territorial possessions and/or any foreign countries, and all rights, together with all priority rights, under any of the international conventions, unions, agreements, acts, and treaties, including all future conventions, unions, agreements, acts, and treaties;

Do hereby further sell, assign and transfer to Marvell Semiconductor, Inc., its successors, assigns, and legal representatives, the full and exclusive right to United States Provisional Patent Applications(s) No(s). 61/301,125, filed February 3, 2010 entitled "RECESS SI SUBSTRATE WITH SIMPLE THRU SI VIA FOR 3D PACKAGING"; 61/316,282, filed March 22, 2010 entitled "RECESS SI SUBSTRATE WITH SIMPLE THRU SI VIA FOR 3D PACKAGING"; 61/321,068, filed April 5, 2010 entitled "RECESS SILICON/POLY-SI SUBSTRATE COMBINED WITH THIN THRU-SI VIA/TRENCH"; and 61/325,189, filed April 16, 2010 entitled "RECESS SILICON/POLY-SI SUBSTRATE COMBINED WITH THIN THRU-SI VIA/TRENCH", and to any and all inventions described in said provisional patent application for the United States, its territorial possessions and all foreign countries, and the entire right, title and interest in and to any and all Letters Patent which may be entitled to the benefit thereof in the United States, its territorial possessions and all foreign countries; and in and to any and all continuations-in-part, continuations, divisions, substitutes, reissues, extensions thereof, and all other applications for Letters Patent relating thereto which have been or shall be filed in the United States, its territorial possessions and/or any foreign countries, and all rights, together with all priority rights, under any of the international conventions, unions, agreements, acts, and treaties, including all future conventions, unions, agreements, acts, and treaties;

Agree that Marvell Semiconductor, Inc., hereinafter referred to as Assignee, may apply for and receive Letters Patent for said invention and said inventions, hereinafter referred to as said invention, in its own name, in the United States, its territorial possessions, and all foreign countries; and that, when requested to carry out in good faith the intent and purpose of this assignment, at the expense of said Assignee, its successors, assigns and legal representatives, the undersigned will execute all continuations-in-part, continuations, divisions, substitutes, reissues, extensions thereof, execute all rightful oaths, assignments, powers of attorney and other papers, testify in any legal or quasi legal proceedings; communicate to said Assignee, its successors, assigns or legal representatives all facts known to the undersigned relating to said invention and the history thereof; and generally do everything possible which said Assignee, its successors, assigns, or legal representatives shall consider desirable for aiding in securing, maintaining and enforcing proper patent protection for said invention and for vesting title to said invention and all applications for patents on said invention in said Assignee, its successors, assigns, or legal representatives; and

Covenant with said Assignee, its successors, assigns, or legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

IN TESTIMONY WHEREOF I have hereunto set MY signature on the date indicated below.

Full Name of First Inventor:

Albert Wu

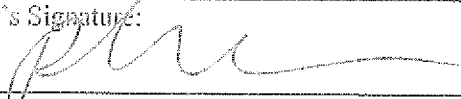
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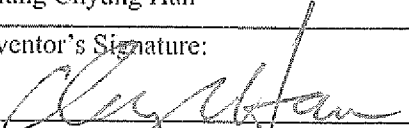


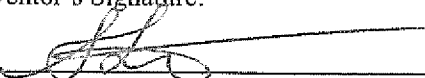
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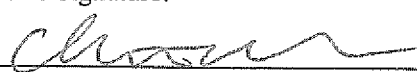
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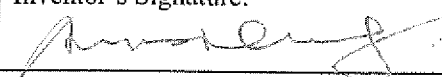
Docket No. MP3885


Full Name of Second Inventor:	
Roawen Chen	
Inventor's Signature: 	Date: Month/Day/Year 1/26/11

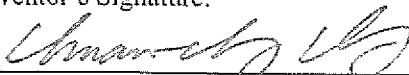
Full Name of Third Inventor:	
Chung Chyung Han	
Inventor's Signature: 	Date: Month/Day/Year 01/25/2011

Full Name of Fourth Inventor:	
Shiann-Ming Liou	
Inventor's Signature: 	Date: Month/Day/Year 1/25/11

Full Name of Fifth Inventor:	
Chien-Chuan Wei	
Inventor's Signature: 	Date: Month/Day/Year 1/25/11

Full Name of Sixth Inventor:	
Runzi Chang	
Inventor's Signature: 	Date: Month/Day/Year 01/25/11

Full Name of Seventh Inventor:	
Scott Wu	
Inventor's Signature: 	Date: Month/Day/Year 1/25/11

Full Name of Eighth Inventor:	
Chuan-Cheng Chen- Cheng <i>cc</i>	
Inventor's Signature: 	Date: Month/Day/Year 01/25/2011