

## 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>MENG-FAN CHANG</td> <td>03/20/2012</td> </tr> <tr> <td>TSUNG-HSIEN HUANG</td> <td>03/23/2012</td> </tr> </tbody> </table>		Name	Execution Date	MENG-FAN CHANG	03/20/2012	TSUNG-HSIEN HUANG	03/23/2012
Name	Execution Date						
MENG-FAN CHANG	03/20/2012						
TSUNG-HSIEN HUANG	03/23/2012						
RECEIVING PARTY DATA							
Name:	NATIONAL TSING HUA UNIVERSITY						
Street Address:	#101, SECTION 2, KUANG FU ROAD						
City:	HSIN CHU CITY						
State/Country:	TAIWAN						
Postal Code:	30013						
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>13541590</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13541590		
Property Type	Number						
Application Number:	13541590						
CORRESPONDENCE DATA							
Fax Number:	(949)788-9969						
Phone:	9497889961						
Email:	patents@shimokaji.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:	SHIMOKAJI & ASSOCIATES, P.C.						
Address Line 1:	8911 RESEARCH DRIVE						
Address Line 4:	IRVINE, CALIFORNIA 92618						
ATTORNEY DOCKET NUMBER:	P2809US-30 (323-0150)						
NAME OF SUBMITTER:	ALEXIS SAENZ						
Total Attachments: 2 source=P2809US-30_FiledAssignment_7-3-2012_323-0150#page1.tif source=P2809US-30_FiledAssignment_7-3-2012_323-0150#page2.tif							

OP \$40.00 13541590

**ASSIGNMENT**

WHEREAS, the undersigned inventor(s) (hereinafter individually and collectively referred to as "ASSIGNOR") has/have invented:

**3D-IC Differential Sensing and Charge Sharing Scheme**

(hereinafter "the invention") for which application for Letters Patent of the United States:

has been executed on even date herewith;

was executed on \_\_\_\_\_;

was filed on \_\_\_\_\_ and assigned U.S. Application Serial No. \_\_\_\_\_;

AND WHEREAS, National Tsing Hua University, a Taiwan, R.O.C. university having a place of business at #101, Section 2, Kuang Fu Road, Hsin Chu City, Taiwan 30013, R.O.C. (hereinafter "ASSIGNEE"), and successors, assigns, and legal representatives, is desirous of acquiring the entire right, title, and interest therein;

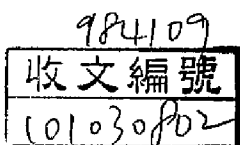
AND WHEREAS, a "formal application," as referred to herein, shall mean any provisional, nonprovisional, continuation, continuation in part, continued prosecution, substitute, renewal, extension, divisional, reissue, reexamination, foreign, Patent Cooperation Treaty (PCT) or other patent application, inventor's certificate, utility model, or like document;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNOR does hereby sell, assign and transfer unto ASSIGNEE, its successors, assigns, and legal representatives, the entire right, title and interest in and to the aforesaid application, to the invention as described in the aforesaid application, and to any formal application which may be filed based in whole or in part on the aforesaid application, in the United States and all foreign countries, together with the right of priority under any international conventions, treaties and/or agreements to which the United States currently adheres and adheres to in the future, and hereby authorizes and requests the Commissioner of Patents to issue said Letters Patent to ASSIGNEE, for the sole use and benefit of ASSIGNEE, its successors, assigns, and legal representatives;

AND ASSIGNOR authorizes ASSIGNEE, its successors, assigns, and legal representatives, or anyone it may properly designate, to apply for Letters Patent, in its own name if desired, in any and all foreign countries, and additionally to claim the filing date of aforesaid application and/or otherwise take advantage of the provisions of any international convention, treaty and/or agreement;

AND ASSIGNOR FURTHERMORE authorizes ASSIGNEE, its successors, assigns, and legal representatives, or anyone it may properly designate, to insert in this instrument the filing date and/or serial number of said application when ascertained;

AND ASSIGNOR AGREEING, FURTHERMORE, upon request of ASSIGNEE, and without further remuneration, but at no expense to ASSIGNOR, that ASSIGNOR or



United States Patent Application  
Attorney Docket No.: P2809US-30 (323-0150)  
First Named Inventor: Chang, Meng-fan

ASSIGNOR'S executors or administrators will provide all reasonable assistance to obtain, maintain, and assert the fullest measure of legal protection that ASSIGNEE desires to obtain or assert for the invention, any related inventions, any formal application based thereon, and any resulting patents, including executing any and all papers desired by ASSIGNEE for the filing and granting of formal applications, the perfecting of title in ASSIGNEE, and in enforcing any rights in the invention, any related inventions, and any formal application or patent based thereon.

If any provision of this assignment is held by any court to be unenforceable, such provision shall be interpreted to accomplish the objectives of the original provision to the fullest extent allowed by law and the remainder of this assignment shall remain in full force and effect.

**EXECUTED** as of the date(s) written below by ASSIGNOR:

Chang Meng-fan  
Chang, Meng-fan

Date: March 20, 2012

Huang Tsung-hsien  
Huang, Tsung-hsien

Date: 2012.3.23