

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

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>Sheng-Chen Chung</td> <td>12/28/2011</td> </tr> <tr> <td>Ming Zhu</td> <td>12/28/2011</td> </tr> <tr> <td>Harry-Hak-Lay Chuang</td> <td>12/28/2011</td> </tr> <tr> <td>Bao-Ru Young</td> <td>12/28/2011</td> </tr> <tr> <td>Wei-Cheng Wu</td> <td>12/28/2011</td> </tr> <tr> <td>Chia Ming Liang</td> <td>12/28/2011</td> </tr> <tr> <td>Sin-Hua Wu</td> <td>12/28/2011</td> </tr> </tbody> </table>		Name	Execution Date	Sheng-Chen Chung	12/28/2011	Ming Zhu	12/28/2011	Harry-Hak-Lay Chuang	12/28/2011	Bao-Ru Young	12/28/2011	Wei-Cheng Wu	12/28/2011	Chia Ming Liang	12/28/2011	Sin-Hua Wu	12/28/2011
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Application Number:	13331214																
CORRESPONDENCE DATA																	
Fax Number:	(972)732-9218																
Phone:	972-732-1001																
Email:	docketing@slater-matsil.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:	Slater & Matsil, L.L.P.																
Address Line 1:	17950 Preston Road																
Address Line 2:	Suite 1000																
Address Line 4:	Dallas, TEXAS 75252																

PATENT

ATTORNEY DOCKET NUMBER:	TSM11-1110
NAME OF SUBMITTER:	Kasey Edwards
Total Attachments: 2 source=TSM11-1110_Assignment#page1.tif source=TSM11-1110_Assignment#page2.tif	

ATTORNEY DOCKET NO.
TSM11-1110

ASSIGNMENT

WHEREAS, I, the undersigned inventor (or one of the undersigned joint inventors), of residence as listed, having invented certain new and useful improvements as below entitled, for which application for United States Letters Patent is made, the said application having been executed on the date set forth below; and

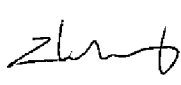
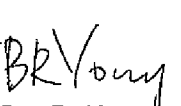
WHEREAS, Taiwan Semiconductor Manufacturing Company, Ltd. (TSMC), a corporation organized and existing under the laws of Taiwan, the Republic of China, with its principal office at No. 8, Li-Hsin Rd. 6, Science-Based Industrial Park, Hsin-Chu, Taiwan 300-77, R.O.C., is desirous of acquiring my entire right, title and interest in and to the said invention, and to the said application and any Letters Patent that may issue thereon in the United States and all other countries throughout the world;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I hereby sell and assign to the said TSMC, its successors and assigns, my entire right, title and interest in and to the said invention and in to the said application and all patents which may be granted therefor, and all divisions, reissues, substitutions, continuations, and extensions thereof; and I hereby authorize and request the Commissioner for Patents to issue all patents for said invention, or patent resulting therefrom, insofar as my interest is concerned, to the said TSMC, as assignee of my entire right, title and interest. I declare that I have not executed and will not execute any agreement in conflict herewith.

I also hereby sell and assign to TSMC, its successors and assigns, my foreign rights to the invention disclosed in said application, in all countries of the world, including, but not limited to, the right to file applications and obtain patents under the terms of the International Convention for the Protection of Industrial Property, and of the European Patent Convention, and further agree to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such patent rights.

I hereby further agree that I will communicate to said TSMC, or to its successors, assigns, and legal representatives, any facts known to me respecting said invention or the file history thereof, and at the expense of said assignee company, testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, reissue and substitute applications, make all lawful oaths, and generally do everything possible to aid said TSMC, its successors, assigns and nominees to obtain and enforce proper patent protection for said invention in all countries.

IN WITNESS WHEREOF, I hereunto set my hand and seal this day and year;

TITLE OF INVENTION	CMOS Devices with Metal Gates and Methods for Forming the Same			
SIGNATURE OF INVENTOR AND NAME	 Sheng-Chen Chung	 Ming Zhu	 Harry-Hak-Lay Chuang	 Bao-Ru Young
DATE	12/28 '2011	12/28 2011	2011-12-28	12/28 '2011
RESIDENCE (City, County, State)	Jhubei City, Taiwan	Singapore	Singapore	Zhubei City, Taiwan

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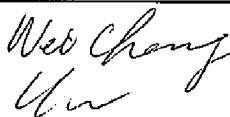
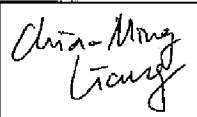
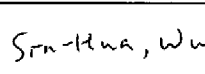
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TITLE OF INVENTION	CMOS Devices with Metal Gates and Methods for Forming the Same			
SIGNATURE OF INVENTOR AND NAME	 Wei-Cheng Wu	 Chia Ming Liang	 Sin-Hua Wu	
DATE	2011/12/28	2011/12/28	2011/12/28	
RESIDENCE (City, County, State)	Zhubei City, Taiwan	Taipei, Taiwan	Zhubei City, Taiwan	