502212938 01/30/2013

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Tien-I Bao	01/15/2013

RECEIVING PARTY DATA

Name:	Taiwan Semiconductor Manufacturing Company, Ltd.		
Street Address:	o. 8, Li-Hsin Road 6		
Internal Address:	Science-Based Industrial Park		
City:	Hsin-Chu		
State/Country:	TAIWAN		
Postal Code:	300-77		

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13744781

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	24061.2293/2012-0845	
NAME OF SUBMITTER:	David M. O'Dell	

Total Attachments: 3

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> **PATENT** REEL: 029721 FRAME: 0367

Docket No.: 2012-0845 / 24061.2293

Customer No.: 000042717

ASSIGNMENT

WHERE	AS, we,
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(1)	Hsin-Yen Huang	of	1F, No.13, Ln. 45, Bo-ai Street Yonghe City, Taipei County Taiwan R.O.C.
(2)	Yu-Sheng Chang	of	2F., No. 5, Aly. 26, Ln. 190, Sec. 7, Zhongshan N. Rd., Shilin District Taipei City 111, Taiwan R.O.C.
(3)	Hai-Ching Chen	of	15F5, No.37, Jianzhong 1st Road Hsinchu City, Taiwan R.O.C.
(4)	Tien-I Bao	of	6F., No. 366, Sec. 4, Linghang N. Road Dayuan Township, Taoyuan County 337 Taiwan R.O.C.

have invented certain improvements in

SEMICONDUCTOR INTEGRATED CIRCUIT AND FABRICATING THE SAME

for which we have executed an application for Letters Patent of the United States of America,

X	of even date	of even date filed herewith; and			
	filed on	a	and assigned application	number	_; and

WHEREAS, we authorize the attorney of record to update this document to include Patent Office information as deemed necessary (i.e., filing date, serial number, etc.);

WHEREAS, Taiwan Semiconductor Manufacturing Company, Ltd., ("TSMC"), No. 8, Li-Hsin Rd. 6, Science-Based Industrial Park Hsin-Chu, Taiwan 300-77, Republic of China. is desirous of obtaining the entire right, title, and interest in, to and under the said invention and the said application in the United States of America and in any and all countries foreign thereto;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, and other good and valuable consideration, we have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said TSMC, its successors, legal representatives, and assigns, the entire right, title, and interest in, to and under the said invention, and the said application, and all divisional, renewal, substitutional, and continuing applications thereof, and all Letters Patent of the United States of America which may be granted thereon and all reissues and extensions thereof, and all applications for Letters Patent which may be filed for said invention in any country or countries foreign to the United States of America, and all extensions, renewals, and reissues thereof, and all prior patents and patent applications from which a filing priority of the above-described patent application may be obtained, including the right to collect past damages; and we hereby authorize and request the Commissioner of Patents of the United States of America, and any official of any country or countries foreign to the United States of America, whose duty it is to issue patents on

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applications as aforesaid, to issue all Letters Patent for said invention to the said TSMC, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant that we have full right to convey the entire interest herein assigned, and that we have not executed, and will not execute, any agreement in conflict herewith.

AND WE HEREBY further covenant and agree that we will communicate to said TSMC, its successors, legal representatives and assigns, any facts known to us respecting said invention, and testify in any legal proceedings, sign all lawful papers, execute all divisional, renewal, substitutional, continuing, and reissue applications, make all rightful declarations and/or oaths and generally do everything possible to aid the said TSMC, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said invention in all countries.

Inventor Name:

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Hsin-Yen Huang

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Dated: 1/15/>013.

Inventor Signature

Inventor Name:

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Inventor Signature

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Docket No.: 2012-0845 / 24061.2293

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Dated: 2013.1.15

Inventor Signature

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RECORDED: 01/30/2013

PATENT REEL: 029721 FRAME: 0370