PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
CHIN-MIN HUANG	08/06/2013
BO-HAN CHEN	08/06/2013
LUN-WEN YEH	08/06/2013
SHUN-SHING YANG	08/06/2013
CHIA-CHENG CHANG	08/06/2013
CHERNG-SHYAN TSAY	08/06/2013
LAI CHIEN WEN	08/06/2013
HUA-TAI LIN	08/06/2013

RECEIVING PARTY DATA

Name:	TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY, LTD.
Street Address:	NO. 8, LI-HSIN RD. 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:	13956962

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	24061.2548
NAME OF SUBMITTER:	DAVID M. O'DELL
Signature:	/David M. O'Dell/
Date:	10/24/2013

Total Attachments: 4
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Docket No.: 2013-0389/ 24061.2548
Customer No.: 000042717

ASSIGNMENT

WHEREAS, we,

(1) Chin-Min Huang of No. 21, Shuitou Lane, Jiahou Road
Waipu District
Taichung City 438, Taiwan R.O.C.

(2) Bo-Han Chen of 13F.-1, No. 8, Ln. 175, Wuling Road
North District
Hsinchu City 300, Taiwan R.O.C.

(3) Lun-Wen Yeh of No. 3, Aly. 40, Ln. 189, Jichang 1st St.
Ji-an Township
Hualien County 973, Taiwan R.O.C.

(4) Shun-Shing Yang of No. 15, Ln. 118, Yong 2nd Street
Yongkang District
Tainan City 710, Taiwan R.O.C.

(5) Chia-Cheng Chang of No. 40, Ln. 72, Aidisheng Road
Baoshan Township
Hsinchu County 308, Taiwan R.O.C.

(6) Cherng-Shyan Tsay of No. 42, Guanghua N. Rd.
Toufen Township
Miaoli County 351, Taiwan R.O.C.

(7) Chien Wen Lai of 6F.-5, No. 247, Nioupu E. Road
Hsinchu City 300, Taiwan R.O.C.

(8) Hua-Tai Lin of No. 26, Aly. 10, Ln. 194, Gaofeng Road
Hsinchu City 300, Taiwan R.O.C.

have invented certain improvements in

METHOD AND APPARATUS FOR INTEGRATED CIRCUIT MASK PATTERNING

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

________ of even date filed herewith; and
__X__ filed on August 1, 2013, and assigned application number 13/956,962; 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 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.

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Dated: 08/06/2013

Chin-Min Huang
Inventor Signature

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Dated: 08/06/2013

Bo-Han Chen
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Dated: 08/06/2013

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Dated: 2013.08.06

Shun-Shing YANG
Inventor Signature

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Dated: 2013.08.06

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Dated: 2013.08.06

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Docket No.: 2013-0389/ 24061.2548
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Dated: 2013/08/06

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