503677594 02/03/2016

PATENT ASSIGNMENT COVER SHEET

EPAS ID: PAT3724230

Electronic Version v1.1 Stylesheet Version v1.2

SUBMISSION TYPE: CORRECTIVE ASSIGNMENT **NATURE OF CONVEYANCE:** Corrective Assignment to correct the NAME OF THE ASSIGNEE previously recorded on Reel 036678 Frame 0449. Assignor(s) hereby confirms the CORRECTION OF THE WORD "MANUFĂCTORING" TO "MANUFACTURING" IN ASSIGNEE'S NAME.

CONVEYING PARTY DATA

Name	Execution Date
CHIEH-HAN WU	12/04/2013
CHUNG-JU LEE	12/04/2013
CHENG-HSIUNG TSAI	12/04/2013
MING-FENG SHIEH	12/06/2013
RU-GUN LIU	12/11/2013
TIEN-I BAO	12/04/2013
SHAU-LIN SHUE	12/04/2013

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:	14853857

CORRESPONDENCE DATA

Fax Number: (214)200-0853

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 214-651-5000

Email: ipdocketing@haynesboone.com

HAYNES AND BOONE, LLP IP SECTION Correspondent Name:

Address Line 1: 2323 VICTORY AVENUE

Address Line 2: SUITE 700

Address Line 4: DALLAS, TEXAS 75219

20130978/24061.2640US02 ATTORNEY DOCKET NUMBER:

REEL: 037686 FRAME: 0190 503677594

PAIENI

NAME OF SUBMITTER: JANIE MARTINEZ-HOLM		
SIGNATURE: /Janie Martinez-Holm/		
DATE SIGNED: 02/03/2016		
Total Attachments: 6 source=24061-2640US02_Corrective_Recordation_Notice#page1.tif		

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PATENT REEL: 037686 FRAME: 0191

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09/29/2015

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3546836

NATURE OF CONVEYANCE: ASSIGNMENT	
MATCHE OF CONVETANCE.	

CONVEYING PARTY DATA

Name	Execution Date	
CHIEH-HAN WU	12/04/2013	
CHUNG-JU LEE	12/04/2013	
CHENG-HSIUNG TSAI	12/04/2013	
MING-FENG SHIEH	12/06/2013	
RU-GUN LIU	12/11/2013	
TIEN-I BAO	12/04/2013	
SHAU-LIN SHUE	12/04/2013	

RECEIVING PARTY DATA

MANUFACTURING

Name:	TAIWAN SEMICONDUCTOR MANUFACTORING 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:	14853857

CORRESPONDENCE DATA

Fax Number:

(214)200-0853

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone:

214-651-5000

Email:

ipdocketing@haynesboone.com

Correspondent Name:

HAYNES AND BOONE, LLP IP SECTION

Address Line 1:

2323 VICTORY AVENUE

Address Line 2:

SUITE 700

Address Line 4:

DALLAS, TEXAS 75219

ATTORNEY DOCKET NUMBER:	20130978 / 24061.2640US02
NAME OF SUBMITTER:	JANIE MARTINEZ-HOLM
SIGNATURE:	/Janie Martinez-Holm/

PATENT REEL: 037686 FRAME: 0192

Docket No.: 2013-0978/24061,2640 Customer No.: 000042717

ASSIGNMENT

WHEREAS, v	ve,		
(1)	Chieh-Han Wu	of	80655 No. 308, Guangxi Road Qianzhen District, Kaohsiung City 806 Taiwan, R.O.C.
(2)	Chung-Ju Lee	of	6F, No. 65, Lane 19, Quan-Xin Road Xin-Zhuang Settlement, Hsinchu City Taiwan, R.O.C.
(3)	Cheng-Hsiung Tsai	of	No. 11, Lane 103, Huaxing Street Zhunan Township, Miaoli County 350 Taiwan, R.O.C.
(4)	Ming-Feng Shieh	of	No. 68, Lane 186, Shenglong Street Yongkang City, Tainan County 71089 Taiwan, R.O.C.
(5)	Ru-Gun Liu	of	No. 90, Chenggong 5th Street Zhubei City, Hsinchu County 302 Taiwan, R.O.C.
(6)	Tien-I Bao	of	6F., No. 366, Section 4, Linghang N. Road Dayuan Township, Taoyuan County 337 Taiwan, R.O.C.
(7)	Shau-Lin Shue	of	5F, No. 25, Alley 6, Lane 485, Kwung-Fu Road I Hsinchu, Taiwan, R.O.C.
have invented	certain improvements in		,,
METHOD FOR INTEGRATED CIRCUIT PATTERNING			

______ of even date filed herewith; and ______ 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.);

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

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

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PATENT REEL: 037686 FRAME: 0193

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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.

	·
Inventor Name:	Chieh-Han Wu
Residence Address:	80655 No. 308, Guangxi Road, Qianzhen District, Kaohsiung City 806 Taiwan, R.O.C.
Dated: 12/04/	2013 V Chieh Han Wu
	Inventor Signature
Inventor Name:	Chung-Ju Lee
Residence Address:	6F, No. 65, Lane 19, Quan-Xin Road, Xin-Zhuang Settlement Hsinchu City Taiwan, R.O.C.
Dated: 1704	Note of the second seco
Inventor Name	Cheng-Hsinng Tsai

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Residence Address:

-2-

No. 11, Lane 103, Huaxing Street, Zhunan Township

Miaoli County 350 Taiwan, R.O.C.

1>14/>013 (hong/sing/son)
Inventor Signature

Docket No.: 2013-0978/24061.2640

Customer No.: 000042717

Inventor Name:

Ming-Feng Shieh

Residence Address:

No. 68, Lane 186, Shenglong Street

Yongkang City, Tainan County 71089 Taiwan, R.O.C.

Dated: 2013, 12/6

V Myrg-Feng Shich Inventor Signature

Inventor Name:

Ru-Gun Liu

Residence Address:

No. 90, Chenggong 5th Street

Zhubei City, Hsinchu County 302 Taiwan, R.O.C.

Inventor Signature

Inventor Name:

Tien-I Bao

Residence Address:

6F., No. 366, Section 4, Linghang N. Road

Dayuan Township, Taoyuan County 337, Taiwan, R.O.C.

Dated: (2/04/2013

Inventor Name:

Shau-Lin Shue

Residence Address:

5F, No. 25, Alley 6, Lane 485, Kwung-Fu Road I

Hsinchu Taiwan, R.O.C.

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RECORDED: 02/03/2016

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