# 504071475 10/28/2016

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4118142

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT	
NATURE OF CONVEYANCE:	Corrective Assignment to correct the RECEIVING PARTY DATA. CORRECT A WORD IN THE RECEIVING PARTY NAME FROM "COMPANY" TO "CO." previously recorded on Reel 039296 Frame 0357. Assignor(s) hereby confirms the CORRECTIVE ASSIGNMENT.	
RESUBMIT DOCUMENT ID:	504041220	

#### **CONVEYING PARTY DATA**

Name	Execution Date
JIA-RUI HU	04/26/2016
CHIH-MING KE	04/26/2016
CHE-YUAN SUN	04/29/2016
SHU-CHUAN CHUANG	04/29/2016

#### **RECEIVING PARTY DATA**

Name:	: TAIWAN SEMICONDUCTOR MANUFACTURING CO., LTD.	
Street Address:	NO. 8, LI-HSIN ROAD 6,	
Internal Address:	dress: SCIENCE-BASED INDUSTRIAL PARK	
City: HSIN-CHU		
State/Country:	TAIWAN	
Postal Code:	300-77	

### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	15168785

#### **CORRESPONDENCE DATA**

**Fax Number:** (214)651-5940

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:	20150953/24061.3225US01
NAME OF SUBMITTER:	JANIE MARTINEZ-HOLM
SIGNATURE:	/Janie Martinez-Holm/

Total Attachments: 6
source=3225US01 - Corrected Patent Assignment Cover Sheet#page1.tif
source=3225US01 - Corrected Notice of Recordation 08-01-2016#page1.tif
source=3225US01 - Corrected Notice of Recordation 08-01-2016#page2.tif
source=3225US01 - Assignment#page1.tif
source=3225US01 - Assignment#page2.tif

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# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3985645

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
JIA-RUI HU	04/26/2016
CHIH-MING KE	04/26/2016
CHE-YUAN SUN	04/29/2016
SHU-CHUAN CHUANG	04/29/2016

## **RECEIVING PARTY DATA**

Name:	TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY, LTD. Co.
Street Address:	NO. 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:	15168785	

### **CORRESPONDENCE DATA**

Fax Number: (214)651-5940

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.

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Email: ipdocketing@haynesboone.com

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ATTORNEY DOCKET NUMBER:	24061.3225US01
NAME OF SUBMITTER:	LADONNA JOHNSON
SIGNATURE:	/LADONNA JOHNSON/
DATE SIGNED:	07/29/2016

**Total Attachments: 3** 

Docket No.: P20150953US00 / 24061.3225US01

Customer No.: 000042717

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### ASSIGNMENT

WHEREAS,	we,		
(1)	Jia-Rui Hu	of	Taichung City, Taiwan (R.O.C.)
(2)	Chih-Ming Ke	of	Hsinchu City, Taiwan (R.O.C.)
(3)	Che-Yuan Sun	of	Hsin-Chu, Taiwan (R.O.C.)
(4)	Shu-Chuan Chuang	of	Hsin-Chu, Taiwan (R.O.C.)

have invented certain improvements in

# METHOD OF EXTRACTING DEFECTS

for which we have executed an application for Letters Patent of the United States of America, of even date filed herewith; and filed on \_\_\_\_\_\_ 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 Co., 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.

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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:	Jia-Rui Hu
Residence Address:	11F2, No.96-30, Gongyequ 1st Rd., Xitun Dist., Taichung City 407, Taiwan (R.O.C.)
Dated: 4/26	12016 Inventor Signature
THE COLUMN	
Inventor Name:	Chih-Ming Ke
Residence Address:	9F, No.17, Alley 7, Lane 298, Sec. 2, Guangfu Rd., Hsinchu City 300, Taiwan (R.O.C.)
Dated: 4/26	Inventor Signature
Inventor Name:	Che-Yuan Sun
Residence Address:	No. 8, Li-Hsin Rd. 6, Science-Based Industrial Park Hsin-Chu, 300-77, Taiwan (R.O.C.)
Dated: 4/29/	2016 Cheyuan Sum Inventor Signature

Docket No.: P20150953US00 / 24061.3225US01

Customer No.: 000042717

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Inventor Name:

Shu-Chuan Chuang

Residence Address:

No. 8, Li-Hsin Rd. 6, Science-Based Industrial Park Hsin-Chu,

300-77, Taiwan (R.O.C.)

Dated: 4/29/2016

Inventor Signature

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