# 505589674 07/25/2019

# **PATENT ASSIGNMENT COVER SHEET**

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Stylesheet Version v1.2

EPAS ID: PAT5636474

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
WEI-HAN LAI	12/23/2016
CHIEN-WEI WANG	12/23/2016
CHING-YU CHANG	12/23/2016
CHIN-HSIANG LIN	12/29/2016

#### **RECEIVING PARTY DATA**

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

## **PROPERTY NUMBERS Total: 1**

Property Type	Number	
Application Number:	16228259	

### **CORRESPONDENCE DATA**

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ATTORNEY DOCKET NUMBER: 20160637 / 24061.3418US02	
NAME OF SUBMITTER:	JANIE MARTINEZ-HOLM
SIGNATURE: /Janie Martinez-Holm/	
<b>DATE SIGNED:</b> 07/25/2019	

**Total Attachments: 2** 

PATENT REEL: 049861 FRAME: 0632

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PATENT REEL: 049861 FRAME: 0633

Docket No.: 20160637 / 24061.3418US01

Customer No.: 000042717

#### ASSIGNMENT

WHEREAS, we,

(1)	Wei-Han LAI	of	New Taipei City, Taiwan (R.O.C.)
(2)	Chien-Wei WANG	of	Hsinchu County, Taiwan (R.O.C.)
(3)	Ching-Yu CHANG	of :	Yilang County, Taiwan (R.O.C.)
(4)	Chin-Hsiang LIN	of	Hsin-Chus, Taiwan (R.O.C.)

have invented certain improvements in

# MATERIAL COMPOSITION AND PROCESS FOR SUBSTRATE MODIFICATION

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

of even date filed herewith; and

X filed on <u>December 15, 2016</u> and assigned application number <u>15/380,911</u>; 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 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.

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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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Wei-Han LAI

Residence Address:

2F, No. 54, Jinbauli St., Jihshan Dist., New Taipei City 208, Taiwan (R.O.C.)

Dated: ≥016,12、23

Wei-Han La

Inventor Signature

Inventor Name:

Chien-Wei WANG

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Dated: 70/6/12.73

Inventor Signature

Inventor Name:

Ching-Yu CHANG

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Dated: # 12/23 20/6

Inventor Signature

Inventor Name:

Chin-Hsiang LIN

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Dated: 2016, 12, 29

Inventor Signature

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