## 506011745 04/13/2020

# PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
PO-YU HUANG	03/20/2020
SHIH-CHE LIN	03/20/2020
CHAO-HSUN WANG	03/20/2020
KUO-YI CHAO	03/20/2020
MEI-YUN WANG	03/20/2020

### **RECEIVING PARTY DATA**

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City:	HSINCHU	
State/Country:	TAIWAN	
Postal Code:	300-78	

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

Property Type	Number
Application Number:	16846910

### **CORRESPONDENCE DATA**

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NAME OF SUBMITTER:	JANIE MARTINEZ-HOLM
SIGNATURE:	/Janie Martinez-Holm/
DATE SIGNED:	04/13/2020

PATENT 506011745 REEL: 052380 FRAME: 0453

## **Total Attachments: 3**

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PATENT REEL: 052380 FRAME: 0454



Docket No.: P20192271US00/ 24061.4088US01 Customer No.: 000042717

#### ASSIGNMENT

WHEREAS, we,

(1)	Po-Yu Huang	of	Hsinchu, Taiwan (R.O.C.)
(2)	Shih-Che Lin	of	Hsinchu, Taiwan (R.O.C.)
(3)	Chao-Hsun Wang	of	Taoyuan County, Taiwan (R.O.C.)
(4)	Kuo-Yi Chao	of	Hsinchu, Taiwan (R.O.C.)
(5)	Mei-Yun Wang	of	Hsin-Chu, Taiwan (R.O.C.)

have invented certain improvements in

### CONTACT FORMATION METHOD AND RELATED STRUCTURE

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"), 8, Li-Hsin Rd. 6, Hsinchu Science Park, Hsinchu, Taiwan 300-78, 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.

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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:	Po-Yu Huang		
Residence Address:	8, Li-Hsin Rd. 6, Hsinchu Science Park Hsinchu 300-78, Taiwan (R.O.C.)		
Dated: 2020/3	3/20	Po-Yu Huang Inventor Signature	
Inventor Name:	Shih-Che Lin		
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Dated: 2020 /3	120	Shih-Che Lin Inventor Signature	
Inventor Name:	Chao-Hsun Wang		
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Dated: $\frac{1}{100}\sqrt{3}$	/-20	<u>Chao Han Wany</u> Inventor Signature	
Inventor Name:	Kuo-Yi Chao		
Residence Address:	8, Li-Hsin Rd. 6, Hsinchu Science Park Hsinchu 300-78, Taiwan (R.O.C.)		
Dated: 7020/2/	<u>&gt;0</u>	Inventor Signature	

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Customer No.: 000042717

Inventor Name:

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Inventor Signature

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**RECORDED: 04/13/2020** 

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