PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SHAO-KUAN LEE	05/21/2019
CHENG-CHIN LEE	05/21/2019
HSIN-YEN HUANG	05/21/2019
HAI-CHING CHEN	05/22/2019
SHAU-LIN SHUE	05/22/2019

RECEIVING PARTY DATA

Name:	TAIWAN SEMICONDUCTOR MANUFACTURING CO., LTD.	
Street Address:	8, LI-HSIN RD. 6	
Internal Address:	: HSINCHU SCIENCE PARK	
City:	HSINCHU	
State/Country:	nte/Country: TAIWAN	
Postal Code:	300-78	

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	18064561	

CORRESPONDENCE DATA

Fax Number:

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.

Email: IPDOCKETING@HAYNESBOONE.COM

Correspondent Name: HAYNES AND BOONE, LLP
Address Line 1: 2323 VICTORY AVENUE
Address Line 4: DALLAS, TEXAS 75219

ATTORNEY DOCKET NUMBER:	2018-0199/24061.3737US03	
NAME OF SUBMITTER:	KENNEDY A. BROWN	
SIGNATURE:	/Kennedy A. Brown/	
DATE SIGNED:	12/12/2022	

Total Attachments: 3

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PATENT REEL: 062057 FRAME: 0836



Docket No.: 20180199 / 24061.3737US01 Customer No.: 000042717

ASSIGNMENT

WHEREAS, we.

(1)	Shao-Kuan Lee	of	Hsinchu, Taiwan (R.O.C.)
(2)	Cheng-Chin Lee	of	Hsinchu, Taiwan (R.O.C.)
(3)	Hsin-Yen Huang	of	New Taipei City, Taiwan (R.O.C.)
(4)	Hai-Ching Chen	of	Hsinchu City, Taiwan (R.O.C.)
(5)	Shau-Lin Shue	of	Hsinchu, Taiwan (R.O.C.)

have invented certain improvements in

METAL CAPPING LAYER AND METHODS THEREOF

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 02-07-2019 and assigned application number 16/270,057 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, Hsinchu Science Park, Hsinchu 300-78, Taiwan, 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, 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:

Shao-Kuan Lee

Residence Address:

No. 8, Li-Hsin Rd. 6, Hsinchu Science Park, Hsinchu 300-78,

Taiwan (R.O.C.)

Dated: 20/9, 5, 2/

Skao-kvan Loe Inventor Signature

Inventor Name:

Cheng-Chin Lee

Residence Address:

No. 8, Li-Hsin Rd. 6, Hsinchu Science Park, Hsinchu 300-78,

Taiwan (R.O.C.)

Dated: >019, 5, 24

Cheng-Own Lee Inventor Signature

Inventor Name:

Hsin-Yen Huang

Residence Address:

1F, No.13, Ln. 45, Bo??ai St., Yonghe Dist., New Taipei City,

Taiwan (R.O.C.)

Dated: 20/4

Inventor Signature

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Customer No.: 000042717

Inventor Name:

Hai-Ching Chen

Residence Address:

15F.-5, No.37, Jianzhong 1st Rd., Hsinchu City,

Taiwan (R.O.C.)

5/22/19

Inventor Name:

Shau-Lin Shue

Residence Address:

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

Taiwan (R.O.C.)

Dated: 5/22/19

Inventor Signature

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RECORDED: 12/12/2022

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