PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
HSIU-WEN HSUEH	04/21/2020
CAI-LING WU	04/21/2020
YA-CHING TSENG	04/21/2020
CHII-PING CHEN	04/21/2020
NENG-JYE YANG	04/21/2020

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:	TAIWAN
Postal Code:	300-78

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	17749303

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: 2146515000
Email: IPDOCKETING@HAYNESBOONE.COM
Correspondent Name: HAYNES AND BOONE, LLP
Address Line 1: 2323 VICTORY AVENUE
Address Line 2: SUITE 700
Address Line 4: DALLAS, TEXAS 75219

ATTORNEY DOCKET NUMBER:	2019-2370/24061.4050US02
NAME OF SUBMITTER:	LINDA INGRAM
SIGNATURE:	/Linda Ingram/
DATE SIGNED:	05/20/2022

Total Attachments: 3

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Docket No.: P20192370US00/24061.4050US01
Customer No.: 42717

ASSIGNMENT

WHEREAS, we,

(1)	Hsiu-Wen Hsueh	of	Taichung City, Taiwan (R.O.C.)
(2)	Cai-Ling Wu	of	Hsinchu, Taiwan, (R.O.C.)
(3)	Ya-Ching Tseng	of	Hsinchu, Taiwan (R.O.C.)
(4)	Chii-Ping Chen	of	Hsinchu City, Taiwan, (R.O.C.)
(5)	Neng-Jye Yang	of	Hsinchu City, Taiwan (R.O.C.)

have invented certain improvements in

SELF-ALIGNED SCHEME FOR SEMICONDUCTOR DEVICE AND METHOD OF FORMING THE SAME

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

__X__ 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"), 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.

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REEL: 059968 FRAME: 0125

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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: Hsiu-Wen Hsueh

Residence Address: No.6, Ln. 53, Chongde 6th Rd., Beitun Dist.
Taichung City 406, Taiwan, (R.O.C.)

Dated: 2020. 4. 21 Hsiu-Wen Hsueh
Inventor Signature

Inventor Name: Cai-Ling Wu

Residence Address: 8, Li-Hsin Rd. 6, Hsinchu Science Park
Hsinchu, Taiwan, 300-78 (R.O.C.)

Dated: 2020. 4. 21 Cai-Ling Wu
Inventor Signature

Inventor Name: Ya-Ching Tseng

Residence Address: 8, Li-Hsin Rd. 6, Hsinchu Science Park
Hsinchu, Taiwan, 300-78 (R.O.C.)

Dated: 2020. 4. 21 Ya-Ching Tseng
Inventor Signature

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Inventor Name: Chii-Ping Chen

Residence Address: 2F., No.58, Jianzhong Rd., East Dist.
Hsinchu City 300, Taiwan (R.O.C.)

Dated: 2020. 4. 21 Chii Ping Chen
Inventor Signature

Inventor Name: Neng-Jye Yang

Residence Address: No.20, Aly. 2, Ln. 384, Sec. 1, Zhonghua Rd., East Dist.
Hsinchu City, Taiwan, 300, (R.O.C.)

Dated: 2020. 4. 21 Neng-Jye Yang
Inventor Signature

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