# 506839589 08/26/2021

# PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
HAN-YU LIN	10/25/2019
CHANSYUN DAVID YANG	10/25/2019
TZE-CHUNG LIN	10/25/2019
FANG-WEI LEE	10/25/2019
FO-JU LIN	10/25/2019
LI-TE LIN	10/25/2019
PINYEN LIN	10/25/2019

## **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:	TAIWAN
Postal Code:	300-78

## **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	17458087

#### **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:** 214-651-5000

**Email:** ipdocketing@haynesboone.com

Correspondent Name: HAYNES AND BOONE, LLP (24061) IP SECTION

Address Line 1: 2323 VICTORY AVENUE

Address Line 2: SUITE 700

Address Line 4: DALLAS, TEXAS 75219

ATTORNEY DOCKET NUMBER:	2018-1881/24061.3820US02
NAME OF SUBMITTER:	LINDA INGRAM
SIGNATURE:	/Linda Ingram/

DATE SIGNED: 08/26/2021

Total Attachments: 3
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Docket No.: P20181881US00/24061,3820US01 Customer No.: 000042717

#### ASSIGNMENT

WHEREAS, we,

(1)	Han-Yu Lin	of	Nantou County, Taiwan (R.O.C.)
(2)	Chansyun David Yang	of	Sinchu, Taiwan (R.O.C.)
(3)	Tze-Chung Lin	of	Hsinchu City, Taiwan, (R.O.C.)
(4)	Fang-Wei Lee	of	Hsinchu City, Taiwan, (R.O.C.)
(5)	Fo-Ju Lin	of	Keelung City, Taiwan, (R.O.C.)
(6)	Li-Te Lin	of	Hsinchu, Taiwan, (R.O.C.)

have invented certain improvements in

# INNER SPACER FORMATION IN MULTI-GATE TRANSISTORS

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

of even date filed herewith; and filed on October 3, 2019 and assigned application number 16/592 281; 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.

0024061.03820US01 | 4817-9923-7544 v.).

Docket No.: P20181881US00/24061.3820US01

Customer No.: 000042717

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:	Han-Yu Lin	
Residence Address:	8, Li-Hsin Rd. 6, Hsinchu Science Park Hsinchu, Taiwan 300-78, (R.O.C.)	
Dated: 20/9/10	0/25	Han-Tu Lin
***************************************		Inventor Signature
Inventor Name:	Chansyun David Yang	
Residence Address:	8, Li-Hsin Rd. 6, Hsinchu Scie Hsinchu, Taiwan 300-78, (R.C	ence Park O.C.)
Dated: 2619/1	P-47 0/25 FF	Inventor Signature
Inventor Name:	Tze-Chung Lin	
Residence Address:	8, Li-Hsin Rd. 6, Hsinchu Scie Hsinchu, Taiwan 300-78, (R.C	nce Park D.C.)
Dated: 20 9 /	10/25	Tee - Chang Line Inventor Signature
***************************************		· · · · · · · · · · · · · · · · · · ·
Inventor Name:	Fang-Wei Lee	
Residence Address:	8, Li-Hsin Rd. 6, Hsinchu Science Park Hsinchu, Taiwan 300-78, (R.O.C.)	
Dated:	,/~5	Fang-Wei Lee
		Inventor Signature

Docket No.: P20181881US00/24061.3820US01

Customer No.: 000042717

Inventor Name:

Fo-Ju Lin

Résidence Address:

8, Li-Hsin Rd. 6, Hsinchu Science Park

Hsincha, Taiwan 300-78, (R.O.C.)

Dated: 2019. (0, 25

Inventor Signature

Inventor Name:

Li-Te Lin

Residence Address:

8, Li-Hsin Rd. 6, Hsinchu Science Park

Hsinchu, Taiwan 300-78, (R.O.C.)

Dated: 11/xt/2019

Inventor Signature

Inventor Name:

Pinyen Lin

Residence Address:

8, Li-Hsin Rd. 6, Hsischu Science Park

Hsinchu, Taiwan 300-78, (R.O.C.)

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Inventor Signature

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**RECORDED: 08/26/2021**