

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT6222972

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
JUI-CHIEN HUANG	05/25/2020
KUO-CHENG CHIANG	05/25/2020
CHIH-HAO WANG	05/26/2020
SHI NING JU	05/25/2020
GUAN-LIN CHEN	05/25/2020
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:	16941504
CORRESPONDENCE DATA	
Fax Number:	(214)200-0853
<i>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.</i>	
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:	2019-0230/24061.4096US01
NAME OF SUBMITTER:	LINDA INGRAM
SIGNATURE:	/Linda Ingram/
DATE SIGNED:	07/28/2020

Total Attachments: 3

source=4096US01_Assignment#page1.tif

source=4096US01_Assignment#page2.tif

source=4096US01_Assignment#page3.tif

ASSIGNMENT

WHEREAS, we,

- (1) Jui-Chien Huang of Hsinchu City 300, Taiwan (R.O.C.)
- (2) Kuo-Cheng Chiang of Hsinchu County 302, Taiwan (R.O.C.)
- (3) Chih-Hao Wang of Hsinchu County 308, Taiwan (R.O.C.)
- (4) Shi Ning Ju of Hsinchu City 300, Taiwan (R.O.C.)
- (5) Guan-Lin Chen of Hsinchu County 308, Taiwan (R.O.C.)

have invented certain improvements in

IMPROVED SPACER STRUCTURE FOR NANO-SHEET-BASED DEVICES

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

- X of even date filed herewith; and
- X filed on July 28, 2020 and assigned application number 16/941,504; 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.

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.

Docket No.: P20190230US00 /24061.4096US01
 Customer No.: 000042717

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: Jui-Chien Huang

Residence Address: 6F.-5, No. 518, Puding Rd., East Dist.
 Hsinchu City 300, Taiwan (R.O.C.)

Dated: 2020.5.25

Jui-Chien Huang
 Inventor Signature

Inventor Name: Kuo-Cheng Chiang

Residence Address: 5F., No.8-3, Guangming 9th Rd., Zhubei City
 Hsinchu County 302, Taiwan (R.O.C.)

Dated: 2020.5.25

Kuo-Cheng Chiang
 Inventor Signature

Inventor Name: Chih-Hao Wang

Residence Address: No.9, Aly. 22, Ln. 80, Songcui Rd., Baoshan Township
 Hsinchu County 308, Taiwan, (R.O.C.)

Dated: 5/26/2020

Chih-Hao Wang
 Inventor Signature

Inventor Name: Shi Ning Ju

Residence Address: 10F., No.306, Ln. 1050, Minghu Rd., East Dist.
 Hsinchu City 300, Taiwan (R.O.C.)

Dated: 2020.5.25

Shi Ning Ju
 Inventor Signature

Docket No.: P20190230US00 /24061.4096US01
Customer No.: 000042717

Inventor Name: Guan-Lin Chen

Residence Address: No. 168, Yuanqu 2nd Rd., Baoshan Township
Hsinchu County 308, Taiwan (R.O.C.)

Dated: 5/29/2020

Guan-Lin Chen
Inventor Signature
