

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT6058667

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
I-HSIEH WONG	03/20/2020
WEI-YANG LEE	03/20/2020
FENG-CHENG YANG	03/24/2020
YEN-MING CHEN	03/20/2020
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	TAIWAN SEMICONDUCTOR MANUFACTURING CO., LTD.
<b>Street Address:</b>	8, LI-HSIN RD. 6
<b>Internal Address:</b>	HSINCHU SCIENCE PARK
<b>City:</b>	HSINCHU
<b>State/Country:</b>	TAIWAN
<b>Postal Code:</b>	300-78
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	16847116
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(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>	
<b>Phone:</b>	214-651-5000
<b>Email:</b>	ipdocketing@haynesboone.com
<b>Correspondent Name:</b>	HAYNES AND BOONE, LLP (24061) IP SECTION
<b>Address Line 1:</b>	2323 VICTORY AVENUE
<b>Address Line 2:</b>	SUITE 700
<b>Address Line 4:</b>	DALLAS, TEXAS 75219
<b>ATTORNEY DOCKET NUMBER:</b>	2019-1104/24061.3986US01
<b>NAME OF SUBMITTER:</b>	MARCY OGADO
<b>SIGNATURE:</b>	/Marcy Ogado/
<b>DATE SIGNED:</b>	04/13/2020
<b>Total Attachments: 2</b>	

source=3986US01Assignment#page1.tif

source=3986US01Assignment#page2.tif

Docket No.: P20191104US00/24061.3986US01  
Customer No.: 000042717

**ASSIGNMENT**

WHEREAS, we,

- (1) I-Hsieh Wong of Hsinchu, Taiwan (R.O.C.)
- (2) Wei-Yang Lee of Taipei City, Taiwan (R.O.C.)
- (3) Feng-Cheng Yang of Zhudong Township Taiwan (R.O.C.)
- (4) Yen-Ming Chen of Chu-Pei City, Taiwan (R.O.C.)

have invented certain improvements in

**HYBRID SRAM DESIGN WITH NANO-STRUCTURES**

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 April 13, 2020 and assigned application number 16/847,116; 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.

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,

Docket No.: P20191104US00/24061.3986US01  
Customer No.: 000042717

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: I-Hsieh Wong  
Residence Address: 8, Li-Hsin Rd. 6,  
Hsinchu, Taiwan (R.O.C.)

Dated: 03/20/2020

I-Hsieh Wong  
Inventor Signature

Inventor Name: Wei-Yang Lee  
Residence Address: 3F, No. 39, Ln. 10, Shuangcheng St., Zhongshan Dist.,  
Taipei City 104, Taiwan (R.O.C.)

Dated: 3/20/2020

Wei-Yang Lee  
Inventor Signature

Inventor Name: Feng-Cheng Yang  
Residence Address: No. 7, Aly. 8, Ln. 315, Xuefu E. Rd., Zhudong Township,  
Hsinchu County 310, Taiwan (R.O.C.)

Dated: 03/24/2020

Feng Cheng Yang  
Inventor Signature

Inventor Name: Yen-Ming Chen  
Residence Address: 6F, No. 33, Sheng-Li 5th Rd., Chu-Pei City,  
Hsin-Chu County, Taiwan (R.O.C.)

Dated: 3/20/20

Yen-Ming Chen  
Inventor Signature