## PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
CHEN-HAN WANG	09/10/2019
PEI-HSUN WANG	11/05/2019
CHUN-HSIUNG LIN	11/05/2019
CHIH-HAO WANG	09/11/2019

## **RECEIVING PARTY DATA**

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### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	18344057

### **CORRESPONDENCE DATA**

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NAME OF SUBMITTER:	DANIEL R. MCCLURE
SIGNATURE:	/Daniel R. McClure/
DATE SIGNED:	06/29/2023

Total Attachments: 4

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### ASSIGNMENT

WHEREAS, Chen-Han WANG, Pei-Hsun WANG, Chun-Hsiung LIN and Chih-Hao WANG hereafter referred to as ASSIGNOR, has/have invented certain new and useful improvements as described and set forth in the below identified application for United States Letters Patent:

Filed: 2019-09-16	Serial No. 16/571,817	
Executed on:		_
WHEREAS, Taiwan Semiconductor	Manufacturing Co., Ltd., of No. 8, Li-Hsin Rd. 6, Hsinel	31

WHEREAS, <u>Taiwan Semiconductor Manufacturing Co.</u>, <u>Ltd.</u>, of <u>No. 8, Li-Hsin Rd. 6. Hsinchu Science Park, Hsinchu 300-78, Taiwan R.O.C.</u>, hereinafter referred to as ASSIGNEE, is desirous of acquiring ASSIGNOR'S interest in the said invention and application and in any U.S. Letters Patent which may be granted on the same;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for good and valuable consideration, receipt of which is hereby acknowledged by Assignor, Assignor has/have sold, assigned and transferred, and by these presents does/do sell, assign and transfer unto the said Assignee, and Assignee's successors and assigns, all his/her/their rights, title and interest in and to the said invention and application and all future improvements thereon, and in and to any Letters Patent which may hereafter be granted on the same in the United States, the said interest to be held and enjoyed by said Assignee as fully and exclusively as it would have been held and enjoyed by said Assignor had this Assignment and transfer not been made, to the full end and term of any Letters Patent which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

Assigner further agrees/agree that he/she/they will, without charge to said Assignee, but at Assignee's expense, cooperate with Assignee in the prosecution of said application and/or applications, execute, verify, acknowledge and deliver all such further papers, including applications for Letters Patent and for the reissue thereof, and instruments of assignment and transfer thereof, and will perform such other acts as Assignee lawfully may request, to obtain or maintain Letters Patent for said invention and improvement, and to vest title thereto in said Assignee, or Assignee's successors and assigns.

IN TESTIMONY WHEREOF, Assignor has/have signed his/her/their name(s) on the date(s) indicated.

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# ASSIGNMENT

Date	Name: Chen-Han WANG
11:05.50(9 Date	Name: Pei-Hsun WANG
Date	Name: Chun-Hsìung LIN
Date	Name: Chib. Hao WANG

## ASSIGNMENT

Date	Name: Chen-Han WANG
 Date	Name: Pei-Hsun WANG
2019/11/5	QL-L, Z,
Date	Name: Chun-Hsiung LIN
 Date	Name: Chih-Hao WANG

## ASSIGNMENT

9/10 2019	Cher How Word.
Date	Name: Chen-Han WANG
Date	Name: Pei-Hsun WANG
Date	Name: Chun-Hsiung LIN
9/11/2019	Chih-Hao Wang
Date	Name: Chih-Hao WANG

PATENT REEL: 064112 FRAME: 0805