

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
CHUN-YUAN CHEN	12/23/2019
CHIA-HAO CHANG	12/23/2019
CHENG-CHI CHUANG	12/23/2019
YU-MING LIN	12/25/2019
CHIH-HAO WANG	12/25/2019
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<b>City:</b>	HSINCHU
<b>State/Country:</b>	TAIWAN
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<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16744503
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<b>ATTORNEY DOCKET NUMBER:</b>	252056-1140
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<b>SIGNATURE:</b>	/Daniel R. McClure/
<b>DATE SIGNED:</b>	01/16/2020
<b>Total Attachments: 2</b>	

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## ASSIGNMENT

WHEREAS, Chun-Yuan CHEN, Chia-Hao CHANG, Cheng-Chi CHUANG, Yu-Ming 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:

Title: **STRUCTURE AND FORMATION METHOD OF SEMICONDUCTOR DEVICE WITH STACKED CONDUCTIVE STRUCTURES**

Filed: \_\_\_\_\_ Serial No. \_\_\_\_\_  
 Executed on: \_\_\_\_\_

WHEREAS, Taiwan Semiconductor Manufacturing Co., Ltd., of No. 8, Li-Hsin Rd. 6, Hsinchu Science Park, Hsinchu 300-78, Taiwan R.O.C., 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.

Assignor 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.

## ASSIGNMENT

2019.12.23

Date

Chun-Yuan Chen

Name: Chun-Yuan CHEN

2019.12.23

Date

Chia-Hao Chang

Name: Chia-Hao CHANG

2019.12.23

Date

Cheng-Chi Chuang

Name: Cheng-Chi CHUANG

2019.12.25

Date

Yu-Ming Lin

Name: Yu-Ming LIN

12/25/2019

Date

Chih-Hao Wang

Name: Chih-Hao WANG