

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
KUO-CHENG CHIANG	06/17/2019
CHUNG-WEI HSU	06/18/2019
LUNG-KUN CHU	06/18/2019
MAO-LIN HUANG	06/18/2019
JIA-NI YU	06/18/2019
CHIH-HAO WANG	06/19/2019
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Property Type	Number
Application Number:	16454598
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DATE SIGNED:	06/28/2019

Total Attachments: 2

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ASSIGNMENT

Attorney Docket No. 0941-4020PUS1

WHEREAS, Kuo-Cheng CHIANG, Chung-Wei HSU, Lung-Kun CHU, Mao-Lin HUANG, Jia-Ni YU 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: **METHODS OF FABRICATING SEMICONDUCTOR DEVICES FOR TIGHTENING SPACING BETWEEN NANOSHEETS IN GAA STRUCTURES AND STRUCTURES FORMED THEREBY**

Filed: June 27, 2019 Serial No. 16/454,598

Executed on: June 17, 2019, June 18, 2019 and June 19, 2019

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

2019.6.17

Date

Kuo-Cheng Chiang

Name: Kuo-Cheng CHIANG

2019.6.18

Date

Chung-Wei Hsu

Name: Chung-Wei HSU

2019.6.18

Date

Lung-Kun Chu

Name: Lung-Kun CHU

2019.06.18

Date

Mao-Lin Huang

Name: Mao-Lin HUANG

2019.6.18

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Jia-Ni Yu

Name: Jia-Ni YU

6/19/2019

Date

Chih-Hao Wang

Name: Chih-Hao WANG