### 506435707 01/06/2021

## **PATENT ASSIGNMENT COVER SHEET**

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
HUNG-CHOU LIN	06/25/2019
YI-CHENG CHIU	06/25/2019
KARTHICK MURUKESAN	12/25/2018
YI-MIN CHEN	07/22/2019
SHIUAN-JENG LIN	06/25/2019
WEN-CHIH CHIANG	06/25/2019
CHEN-CHIEN CHANG	06/25/2019
CHIH-YUAN CHAN	08/13/2019
KUO-MING WU	07/29/2019
CHUN LIN TSAI	08/13/2019

#### **RECEIVING PARTY DATA**

Name:	TAIWAN SEMICONDUCTOR MANUFACTURING CO., LTD.
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Internal Address:	HSINCHU SCIENCE PARK
City:	HSINCHU
State/Country:	TAIWAN
Postal Code:	300-78

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

Property Type	Number
Application Number:	17142618

#### **CORRESPONDENCE DATA**

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PATENT 506435707 REEL: 054829 FRAME: 0036

ATTORNEY DOCKET NUMBER:	TSMCP994USA
NAME OF SUBMITTER:	MATTHEW W. GLAUSE
SIGNATURE:	/Matthew W. Glause/
DATE SIGNED:	01/06/2021
Total Attachments: 3	
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PATENT REEL: 054829 FRAME: 0037

#### ASSIGNMENT

WHEREAS, Hung-Chou LIN, Yi-Cheng CHIU, Karthick MURUKESAN, Yi-Min CHEN, Shiuan-Jeng LIN, Wen-Chih CHIANG, Chen-Chien CHANG, Chih-Yuan CHAN, Kuo-Ming WU and Chun-Lin TSAI

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:	Serial No.
Executed on:	
WHEREAS, <u>Taiwan Semi</u>	conductor Manufacturing Co., Ltd., of No. 8, Li-Hsin Rd. 6, Hsinch
Science Park, Hsinchu 300	-78, Taiwan R.O.C., hereinafter referred to as ASSIGNEE, is desirou
of acquiring ASSIGNOR's	S interest in the said invention and application and in any U.S. Letter
Patent which may be grante	ed 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

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2019 / 06 / 25 Date	Hung-Chou LIN Name: Hung-Chou LIN
2019/06/25 Date	Name: Yi-Cheng QHIU
Date	Name: Karthick MURUKESAN
70 19 / 1/22 Date	Name: Yi-Min CHEX
プリー ( - V) Date	Shiwan Jeng Lin Name: Shiwan-Jeng LIN
2019, 6, 75	Name: Wen-Chih CHIANG
Date	
2019.6.25	Chen-chien chang
Date	Name: Chen-Chien CHANG
2019, 8, 13	Chth-Yuan Chan
Date	Name: Chih-Yuan CHAN
2019.7.29 Date	Name: Kuo-Ming WU
-2015, f (1)	Name: Chun-Lin TSAI
Date	Name: Coom-Lin ISAI

## **ASSIGNMENT**

Date	Name: Hung-Chou LIN
Date	Name: Yi-Cheng CHIU
25/12/2018 Date	Name: Karthick MURUKESAN
Date	Name: Yi-Min CHEN
Date	Name: Shiuan-Jeng LIN
Date	Name: Wen-Chih CHIANG
Date	Name: Chen-Chien CHANG
Date	Name: Chih-Yuan CHAN
Date	Name: Kuo-Ming WU
Date	Name: Chun-Lin TSAI

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