PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6010544

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	

CONVEYING PARTY DATA

Name	Execution Date
YI-CHEN CHEN	03/02/2020
MING CHYI LIU	02/26/2020
SHIH-WEI LIN	03/02/2020

RECEIVING PARTY DATA

Name:	TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY LIMITED	
Street Address:	NO. 8, LI-HSIN ROAD 6, HSIN-CHU SCIENCE PARK	
City:	HSIN-CHU	
State/Country:	TAIWAN	
Postal Code:	300-77	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16787976

CORRESPONDENCE DATA

Fax Number: (216)373-3450

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.

Phone: 2166540090

Email:docketing@cooperlegalgroup.comCorrespondent Name:COOPER LEGAL GROUP LLCAddress Line 1:6505 ROCKSIDE ROAD SUITE 330Address Line 4:INDEPENDENCE, OHIO 44131

ATTORNEY DOCKET NUMBER:	P20192917US00	
NAME OF SUBMITTER:	WILLIAM JOSEPH COOPER	
SIGNATURE:	/William Joseph Cooper/	
DATE SIGNED:	03/12/2020	

Total Attachments: 2

source=P20192917US00_Executed Assignments for Recordation#page1.tif source=P20192917US00_Executed Assignments for Recordation#page2.tif

PATENT 505963837 REEL: 052094 FRAME: 0887

ASSIGNMENT

For good and valuable consideration received of the hereinafter named assignee, receipt of which is hereby acknowledged, the undersigned

Yi-Chen CHEN Ming Chyi LIU Jhubei City, TW Hsinchu City, TW

Shih-Wei LIN Taipei City, TW

NOW, THEREFORE, for and in consideration of our employment and the salary or wages paid to us by Taiwan Semiconductor Manufacturing Company Limited, I/we, Yi-Chen CHEN, Ming Chyi LIU and Shih-Wei LIN by these presents do sell, assign, and transfer unto said Taiwan Semiconductor Manufacturing Company Limited, a corporation organized and existing under the laws of the Republic of China, having its principal place of business at No. 8, Li-Hsin Road 6, Hsin-Chu Science Park, Hsin-Chu, Taiwan 300-77, R.O.C., is desirous of acquiring an interest therein, its successors and assigns, the entire right, title and interest, so far as concerns the United States and the Territories and Possessions thereof and all foreign countries, in and to the inventions entitled

SEMICONDUCTOR DEVICE AND METHOD OF MAKING

for which application for United States Letters Patent has been filed on February 11, 2020 under Serial No. 16/787,976 , or was executed by the undersigned on the date below and is being filed concurrently herewith, said application for United States Letters Patent, any and all other applications for Letters Patent on said inventions in countries foreign to the United States, including all divisional, renewal, substitute, continuation and Convention applications based in whole or in part upon said inventions or upon said applications, and any and all Letters Patent and reissues and extensions of Letters Patent granted for said inventions or upon said applications, and every priority right that is or may be predicated upon or arise from said inventions, said applications and said Letters Patent; said assignee being hereby authorized to file patent applications in any or all countries on any or all said inventions in the name of the undersigned or in the name of said assignee or otherwise as said assignee may deem advisable, under the International Convention or otherwise; the Commissioner of Patents and Trademarks of the United States of America and the empowered officials of all other governments being hereby authorized to issue or transfer all said Letters Patent to said assignee in accordance herewith; this assignment being under covenant, not only that full power to make the same is had by the undersigned, but also that such assigned right is not encumbered by any grant, license, or other right heretofore given, and that the undersigned will do all acts reasonably serving to assure that said inventions, patent applications and Letters Patent shall be held and enjoyed by said assignee as fully and entirely as the same could have been held and enjoyed by the undersigned if this assignment had not been made, and particularly to execute and deliver to said assignee all lawful documents including petitions, specifications, oaths, assignments, invention disclaimers,

> PATENT REEL: 052094 FRAME: 0888

P20192917US00

and lawful affidavits in form and substance which may be requested by said assignee, to furnish said assignee with all facts relating to said inventions or the history thereof and any and all documents, photographs, models, samples or other physical exhibits which may be useful for establishing the facts of conception, disclosure and reduction to practice of said inventions, and to testify in any proceedings relating to said inventions, patent applications and Letters Patent.

Y. Chen Chen	2030/3/2
Inventor's Signature	Date
Yi-Chen CHEN Printed Name in English	
Ming Chyi LIU Printed Name in English	Date
Shih-Wei Ltn	7020/3/2
Inventor's Signature	Date
Shih-Wei LIN Printed Name in English	

PATENT REEL: 052094 FRAME: 0889

RECORDED: 03/12/2020