PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT7451248

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT	
	Corrective Assignment to correct the CONVEYING PARTY DATA previously recorded on Reel 052992 Frame 0228. Assignor(s) hereby confirms the ASSIGNMENT OF ASSIGNORS' INTEREST.	

CONVEYING PARTY DATA

Name	Execution Date
HONG-WEI CHAN	07/17/2022
YUNG-SHIH CHENG	07/25/2022
WEN-SHEH HUANG	07/17/2022
YU-HSIANG CHEN	07/18/2022

RECEIVING PARTY DATA

Name:	Taiwan Semiconductor Manufacturing Co., Ltd.	
Street Address:	8, Li-Hsin Rd. 6, Hsinchu Science Park	
City:	Hsinchu	
State/Country:	TAIWAN	
Postal Code:	300-78	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16906659

CORRESPONDENCE DATA

Fax Number: (972)732-9218

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.

972-732-1001 Phone:

Email: docketing@slatermatsil.com

Correspondent Name: SLATER MATSIL, LLP

Address Line 1: 17950 PRESTON RD., SUITE 1000

Address Line 4: DALLAS, TEXAS 75252

ATTORNEY DOCKET NUMBER: TSMP20192446US00		
NAME OF SUBMITTER:	CRISTINA AMARO RENTERIA	
SIGNATURE:	/Cristina Amaro Renteria/	
DATE SIGNED:	07/26/2022	

Total Attachments: 3

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PATENT REEL: 060919 FRAME: 0008

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PATENT REEL: 060919 FRAME: 0009

506116257 06/19/2020

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 EPAS ID: PAT6162981 Stylesheet Version v1.2

SUBMISSION TYPE: NEW ASSIGNMENT NATURE OF CONVEYANCE: ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
HONG-WEI CHAN	06/09/2020
YUNG-SHIH CHENG	06/09/2020
WEN-SHEH HUANG	06/09/2020
YU-HSIANG CHENG	06/09/2020

RECEIVING PARTY DATA

Name:	Taiwan Semiconductor Manufacturing Co., Ltd.	
Street Address:	8, Li-Hsin Rd. 6, Hsinchu Science Park	
City:	Hsinchu	
State/Country:	TAIWAN	
Postal Code:	300-78	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16906659

CORRESPONDENCE DATA

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using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 972-732-1001

Email: docketing@slatermatsil.com SLATER MATSIL, LLP **Correspondent Name:**

17950 PRESTON RD., SUITE 1000 Address Line 1:

Address Line 4: DALLAS, TEXAS 75252

ATTORNEY DOCKET NUMBER: TSMP20192446US00 NAME OF SUBMITTER: JENNIFER RUBIO **SIGNATURE:** /Jennifer Rubio/ **DATE SIGNED:** 06/19/2020

Total Attachments: 1

source=TSMP20192446US00 Assignment as filed 2020-06-19#page1.tif

PATENT REEL: 060919 FRAME: 0010

DECLARATION AND ASSIGNMENT

Title of Invention: Semiconductor Device and Method

As a below named inventor, or one of the below named joint inventors, I hereby declare that:

This declaration and assignment is directed to the application attached hereto. If the application is not attached hereto, the application is as identified by the attorney docket number as set forth above and/or the following:

United States Application No. or PCT International Application No.: 16/906,659, filed on 06/19/2020.

The above-identified application was made or authorized to be made by me.

believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I have reviewed and understand the contents of the above-identified application, including the claims.

I am aware of the duty to disclose to the U.S. Patent and Trademark Office all information known to me to be material to patentability as defined in 37 C.F.R. §1.56.

All statements made of my own knowledge are true and all statements made on information and belief are believed to be true.

I hereby acknowledge that any willful false statement made in this declaration may jeopardize the validity of the application or any patent issuing thereon and is punishable under 18 U.S.C. §1001 by fine or imprisonment of not more than five (5) years, or both.

The above-identified invention shall henceforth be referred to herein as the "INVENTION" and the above-identified application shall henceforth be referred to herein as the "APPLICATION."

Taiwan Semiconductor Manufacturing Company, Ltd., a corporation organized and existing under the laws of Taiwan, with its principal office at 8, Li-Hsin Rd. 6, Hsinchu Science Park, Hsinchu, 300-78, Taiwan and its heirs, successors, legal representatives and assigns shall henceforth be referred to collectively herein as ASSIGNEE.

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, I have assigned and do hereby assign to ASSIGNEE, its successors and assigns, my entire right, title and interest in and to said INVENTION and in and to said APPLICATION and all patents which may be granted therefor, and all future non-provisional applications including, but not limited to, divisions, reissues, substitutions, continuations, and extensions thereof; and I hereby authorize and request the Commissioner for Patents to issue all patents for said INVENTION, or patents resulting therefrom, insofar as my interest is concerned, to ASSIGNEE, as assignee of my entire right, title and interest. I declare that I have not executed and will not execute any agreement in conflict herewith.

Additionally, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, I have also assigned and hereby assign to ASSIGNEE, its successors and assigns, all of my rights to the INVENTION disclosed in said APPLICATION, in all countries of the world, including, but not limited to, the right to file applications and obtain patents under the terms of the International Convention for the Protection of Industrial Property, and of the European Patent Convention, and I further agree to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such rights.

> PATENT **REEL: 060919 FRAME: 0011**

Docket Number:

I hereby further agree that I will communicate to ASSIGNEE, or to its successors, assigns, and legal representatives, any facts known to me respecting said INVENTION or the file history thereof, and at the expense of ASSIGNEE, its legal representatives, successors, or assigns, will testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, reissue and substitute applications, make all lawful oaths, and generally do everything possible to aid ASSIGNEE, its legal representatives, successors, and assigns, to obtain and enforce proper patent protection for said invention in all countries.

I hereby grant the attorney of record the power to insert on this document any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office or other authority for recordation of this document.

IN WITNESS WHEREOF, I hereunto set my hand and seal this day and year.

1. NAME OF INVENTOR (Full Legal Name):	Hong-Wei Chan	*************	
Signature: / Hong-Wi Chan		Date:	7/17/2022
2. NAME OF INVENTOR (Full Legal Name):	Yu-Hsiang Chen		
Signature: / Yu-Hsiang Clun		Date:	7/18/2022
3. NAME OF INVENTOR (Full Legal Name) :	Yung-Shih CHEN	G 	
Signature: \(\sum_{\text{Nng-shih}}\) Che			7/25/2022
4. NAME OF INVENTOR (Full Legal Name) :	Wen-Sheh HUANG		
Signature: Wen-Sheh Huan	9 /	Date:	7/17/2022