

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT6306748

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	BO-CYUAN LU	08/25/2020
	TING-GANG CHEN	08/25/2020
	SUNG-EN LIN	08/27/2020
	CHUNYAO WANG	08/27/2020
	YUNG-CHENG LU	08/28/2020
	CHI ON CHUI	08/28/2020
	TAI-CHUN HUANG	08/25/2020
	CHIEH-PING WANG	08/25/2020
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:	17025528
CORRESPONDENCE DATA		
Fax Number:	(972)732-9218	
<i>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.</i>		
Phone:	972-732-1001	
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:	TSMP20194448US01	
NAME OF SUBMITTER:	LISETTE REYES-WASHINGTON	
SIGNATURE:	/Lisette Reyes-Washington/	

DATE SIGNED:	09/18/2020
Total Attachments: 2 source=TSMP20194448US01_Assignment#page1.tif source=TSMP20194448US01_Assignment#page2.tif	

ATTORNEY DOCKET NO.
TSMP20194448US01

ASSIGNMENT

WHEREAS, I, the undersigned inventor (or one of the undersigned joint inventors), of residence as listed, having invented certain new and useful improvements as below entitled, for which application for United States Letters Patent is made; and

WHEREAS, Taiwan Semiconductor Manufacturing Co., Ltd. ("Assignee"), 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, is desirous of acquiring my entire right, title and interest in and to said invention, and to said application and any Letters Patent that may issue thereon in the United States and all other countries throughout the world;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I hereby sell and assign to said 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 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 patent resulting therefrom, insofar as my interest is concerned, to said 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.

I also hereby sell and assign to Assignee, its successors and assigns, my foreign 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 further agree to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such patent rights.

I hereby further agree that I will communicate to said 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 said 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 said Assignee, its legal representatives, successors, and assigns, to obtain and enforce proper patent protection for said invention in all countries.

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

TITLE OF INVENTION	SEMICONDUCTOR DEVICES AND METHODS OF MANUFACTURE			
SIGNATURE OF INVENTOR AND NAME	Bo-Cyuan Lu	Ting-Gang Chen	Sung-En Lin	Chun-yao Wang
DATE	2020.08.25	2020/8/25	2020/8/27	2020/8/27
RESIDENCE	New Taipei City, Taiwan	Taipei City, Taiwan	Hsinchu, Taiwan	Zhubei City, Taiwan

765
 UP-27346-0-03-B8
 ATTORNEY DOCKET NO.
 TSMP20194448US01

ASSIGNMENT

WHEREAS, I, the undersigned inventor (or one of the undersigned joint inventors), of residence as listed, having invented certain new and useful improvements as below entitled, for which application for United States Letters Patent is made; and

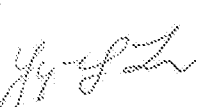
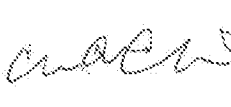

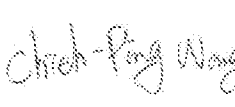
WHEREAS, Taiwan Semiconductor Manufacturing Co., Ltd. ("Assignee"), a corporation organized and existing under the laws of Taiwan, with its principal office at 8, Li-Hsin Rd. 6 Hsinchu Science Park, Hsinchu 300-78 Taiwan, is desirous of acquiring my entire right, title and interest in and to said invention, and to said application and any Letters Patent that may issue thereon in the United States and all other countries throughout the world;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I hereby sell and assign to said 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 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 patent resulting therefrom, insofar as my interest is concerned, to said 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.

I also hereby sell and assign to Assignee, its successors and assigns, my foreign 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 further agree to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such patent rights.

I hereby further agree that I will communicate to said 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 said 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 said Assignee, its legal representatives, successors, and assigns, to obtain and enforce proper patent protection for said invention in all countries.

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

TITLE OF INVENTION	SEMICONDUCTOR DEVICES AND METHODS OF MANUFACTURE			
SIGNATURE OF INVENTOR AND NAME	 Yung-Cheng Lu	 Chi On Chui	 Tai-Chun Huang	 Chieh-Ping Wang
DATE	2020/8/28	8/28/2020	2020/8/25	2020/8/25
RESIDENCE	Hsinchu, Taiwan	Hsinchu, Taiwan	Hsinchu, Taiwan	Taichung, Taiwan