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PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JING-CHENG LIN	12/25/2014
PO-HAO TSAI	12/25/2014
LI-HUI CHENG	12/25/2014
PORTER CHEN	12/25/2014

RECEIVING PARTY DATA

Name:	TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY, LTD.		
Street Address:	8, LI-HSIN RD. 6		
Internal Address:	HSINCHU SCIENCE PARK		
City:	HSINCHU		
State/Country:	TAIWAN		
Postal Code:	300-78		

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	16719738	

CORRESPONDENCE DATA

Fax Number: (214)200-0853

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: 214-651-5000

Email: ipdocketing@haynesboone.com

HAYNES AND BOONE, LLP (24061) IP SECTION **Correspondent Name:**

Address Line 1: 2323 VICTORY AVENUE

SUITE 700 Address Line 2:

Address Line 4: DALLAS, TEXAS 75219

ATTORNEY DOCKET NUMBER: 2014-0902/24061.3252US04	
NAME OF SUBMITTER:	LINDA INGRAM
SIGNATURE: /Linda Ingram/	
DATE SIGNED:	12/18/2019

Total Attachments: 1

PATENT REEL: 051325 FRAME: 0894 source=3252US04-Assignment#page1.tif

PATENT REEL: 051325 FRAME: 0895

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 Company, Ltd. ("Assignee"), a corporation organized and existing under the laws of Taiwan, Republic of China, with its principal office at No. 8, Li-Hsin Rd. 6 Science-Based Industrial Park, Hsin-Chu 300-77, 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	Semicondutor Device and Method of Manufacture				
SIGNATURE OF INVENTOR AND NAME	J-Und- ling-Cheng Lin	Po-Hao Tsai Po-Hao Tsai	fi-this (harf Li-Hui Cheng	Porter Chen	
DATE	2014/12/24	2014/12/25	2014/12/25	2014/12/15	
RESIDENCE	Hsin-Chu, Taiwan, R.O.C.	Zhongli City, Taiwan, R.O.C.	New Taipei City, Taiwan, R.O.C.	Hsin-Chu, Taiwan, R.O.C.	

Assignment