

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
HAO-JAN PEI	08/31/2018
HSIU-JEN LIN	08/31/2018
WEI-YU CHEN	08/31/2018
PHILIP YU-SHUAN CHUNG	08/31/2018
CHIA-SHEN CHENG	09/07/2018
KUEI-WEI HUANG	09/10/2018
CHING-HUA HSIEH	09/10/2018
CHUNG-SHI LIU	09/10/2018
CHEN-HUA YU	09/17/2018
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:	16148465
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/TSMC
Address Line 1:	17950 PRESTON ROAD, SUITE 1000
Address Line 4:	DALLAS, TEXAS 75252
ATTORNEY DOCKET NUMBER:	TSMP20180639US01

NAME OF SUBMITTER:	JERRY LETHIN
SIGNATURE:	/Jerry Lethin/
DATE SIGNED:	10/01/2018
	This document serves as an Oath/Declaration (37 CFR 1.63).
Total Attachments: 3 source=TSMP20180639US01_Assignment#page1.tif source=TSMP20180639US01_Assignment#page2.tif source=TSMP20180639US01_Assignment#page3.tif	

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, 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 Package and Method			
SIGNATURE OF INVENTOR AND NAME	<i>Hao-Jan Pei</i> Hao-Jan Pei	<i>Hsiu-Jen Lin</i> Hsiu-Jen Lin	<i>Wei-Yu Chen</i> Wei-Yu Chen	<i>Philip Yu-Shuan Chung</i> Philip Yu-Shuan Chung
DATE	08/31/18	08/31/18	08/31/18	08/31/18
RESIDENCE	Hsinchu, Taiwan	Zhubei City, Taiwan	Taipei City, Taiwan	Taipei City, Taiwan

ATTORNEY DOCKET NO.
TSPMP20180639US01

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

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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 Package and Method			
SIGNATURE OF INVENTOR AND NAME	<i>Chia-Shen Cheng</i> Chia-Shen Cheng	<i>Kuei-Wei Huang</i> Kuei-Wei Huang	<i>Ching-Hua Hsieh</i> Ching-Hua Hsieh	<i>Chung-Shi Liu</i> Chung-Shi Liu
DATE	2018/9/9	2018/9/10	2018/9/10	9/10/2018
RESIDENCE	Hsinchu, Taiwan	Hsinchu, Taiwan	Hsinchu, Taiwan	Hsinchu, Taiwan

ATTORNEY DOCKET NO.
TSMP20180639US01

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

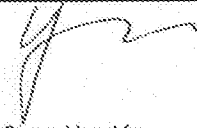
WHEREAS, Taiwan Semiconductor Manufacturing Company, Ltd. ("Assignee"), a corporation organized and existing under the laws of Taiwan, with its principal office at 8, Li-Hsin Rd. 6 Hsinchu Science Park, Hsinchu 300-78 Taiwan, is desirous of acquiring my entire right, title and interest in and to said 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.

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

TITLE OF INVENTION	Semiconductor Package and Method			
SIGNATURE OF INVENTOR AND NAME	 Chen-Hua Yu			
DATE	9/17/18			
RESIDENCE	Hsinchu, Taiwan			