505088412 09/11/2018

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SHIH-CHENG CHANG	08/13/2018

RECEIVING PARTY DATA

Name:	TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY LTD.	
Street Address:	NO.8, LI-HSIN RD. 6, HSINCHU SCIENCE PARK	
City:	HSINCHU	
State/Country:	TAIWAN	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16046739

CORRESPONDENCE DATA

Fax Number:

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: 9493872885

Email: INBOX@WPATCA.COM

Correspondent Name: WPAT. INTELLECTUAL PROPERTY ATTORNEYS

Address Line 1: 1100 QUAIL STREET, SUITE 202

Address Line 4: NEWPORT BEACH, CALIFORNIA 92660

ATTORNEY DOCKET NUMBER:	18506-1379
NAME OF SUBMITTER:	ANTHONY KING
SIGNATURE:	/Anthony King/
DATE SIGNED:	09/11/2018

Total Attachments: 1

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PATENT REEL: 046841 FRAME: 0593

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Your Ref.: P20180799US00

US ONLY

ASSIGNMENT

WHEREAS, I(we), CHANG, SHIH-CHENG whose post office address(es) appear(s) below, hereinafter referred to as ASSIGNOR, have invented certain new and useful invention entitled

SEMICONDUCTOR PACKAGE AND ME	THOD OF FORMING T	THE SAME
(hereinafter referred to as the INVENTION) for which an applic is executed on even date herewith unless at least one of the following United States Design Patent was	ation for United States Letters Fillowing is checked:	Patent /Utility Patent
☐ executed on:		
☑ filed on: 26 July 2018 Serial N ☐ established by PCT International Patent Application N United States of America	No.: filed:	designating the
☐ issued onas U.S. Patent No.:		
WHEREAS, TAIWAN SEMICONDUCTOR MANUFA address is NO.8, LI-HSIN RD. 6, HSINCHU SCIE hereinafter referred to as ASSIGNEE, is desirous of acquiring the United States and its territorial possessions;	ENCE PARK, HSINCHU,	TAIWAN, R.O.C.
NOW, THEREFORE, for good and valuable consideration ASSIGNOR, by these presents do sell, assign and transfer unto and to said INVENTION and application throughout the Unit Patent granted on any division, continuation, continuation-in-terms for which the same may be granted, including all priority	o said ASSIGNEE, the entire right ed States of America, includin part and reissue of said applicati	it, title, and interest in ig any and all Letters ion for the full term or
ASSIGNOR further covenants that no assignments, sale, a or entered into which would conflict with this Assignment;	agreement or encumbrance has	been or will be made

ALSO, ASSIGNOR hereby agrees to execute any documents that legally may be required in connection with the filing, prosecution and maintenance of said application or any other patent application(s) in the United States for said INVENTION, including additional documents that may be required to affirm the rights of ASSIGNEE in and to said INVENTION, all without further consideration. ASSIGNOR also agrees, without further consideration and at ASSIGNEE'S expense, to identify and communicate to ASSIGNEE at ASSIGNEE'S request documents and information concerning the INVENTION that are within ASSIGNOR'S possession or control, and to provide further assurances and testimony on behalf of ASSIGNEE that lawfully may be required of ASSIGNOR in respect of the prosecution, maintenance, litigation and defense of any patent application or patent encompassed within the terms of this ASSIGNOR'S obligations under this instrument shall extend to ASSIGNOR'S heirs, executors,

ALSO, ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all Letters Patent referred to above to ASSIGNEE, as the ASSIGNEE of the entire right, title and interest in and to the same, for ASSIGNEE'S sole use and behoof; and for the use and behoof of ASSIGNEE'S legal representatives and successors, to the full end of the term for which such Letters Patent may be granted, as fully and entirely as the same would have been held by ASSIGNOR had this assignment and sale not been made.

Assignor Name CHANG, SHIH-CHENG	Address 2F, NO. 168, LANE 160, GAO-CUI ROAD, HSIN-CHU CITY 300-77, TAIWAN (R.O.C.)
Signature of Assignor (X) Charly, Shih - Cheng	Date of Signature (X) 13/8/20/8
Name of Witness (optional)	Name of Witness (optional)
Signature of Witness (optional)	Signature of Witness (Optional)

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administrators and other legal representatives.