506701040 06/07/2021

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
WEI-YU CHIEN	09/27/2019
CHIEN-HSIEN TSENG	09/27/2019
DUN-NIAN YAUNG	09/27/2019
NAI-WEN CHENG	09/27/2019
PAO-TUNG CHEN	09/27/2019
YI-SHIN CHU	10/23/2019
YU-YANG SHEN	09/27/2019

RECEIVING PARTY DATA

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Internal Address:	HSIN-CHU SCIENCE PARK
City:	HSIN-CHU
State/Country:	TAIWAN
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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	17340425

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NAME OF SUBMITTER:	MATTHEW W. GLAUSE	
SIGNATURE:	/Matthew W. Glause/	

506701040 PATENT REEL: 056454 FRAME: 0727

DATE SIGNED:	06/07/2021
Total Attachments: 3	
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PATENT REEL: 056454 FRAME: 0728

PATENT ASSIGNMENT

PARTIES TO THE ASSIGNMENT

Assignor(s): Wei-Yu Chien
Assignor(s): Chien-Hsien Tseng
Assignor(s): Dun-Nian Yaung
Assignor(s): Nai-Wen Cheng
Assignor(s): Pao-Tung Chen
Assignor(s): Yi-Shin Chu
Assignor(s): Yu-Yang Shen
Assignee: Taiwan Semiconductor Manufacturing Co., Ltd. No. 8, Li-Hsin Rd. 6, Hsin-Chu Science Park Hsin-Chu, Taiwan 300-77 Republic of China AGREEMENT
WHEREAS, ASSIGNOR(S) (listed above) are inventor(s) of an invention entitled
"SEMICONDUCTOR PACKAGING DEVICE COMPRISING A SHIELD STRUCTURE" for
which:
a non-provisional application for United States Letters Patent:
was executed on even date preparatory to filing (each inventor should sign this
Assignment on the same day as he/she signs the Declaration); or
was filed on and accorded U.S. Serial No; or

TSMC Docket No. P20190594US00 Docket No. TSMCP1042US

Ш	I hereby author	ize and request my attorney associated with Cus	tomer No.	
	<u>107476</u> , to inser	rt on the designated lines below the filing date and	application	
	number of said application when known:			
	U.S. Serial No.			
	filed on	·		

WHEREAS, ASSIGNEE (listed above), a corporation of the Republic of China is desirous of acquiring the entire right, title and interest in and to the invention and in and to any letters patent that may be granted therefore in the United States and in any and all foreign countries;

NOW, THEREFORE, in exchange for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR(S) hereby sell, assign and transfer unto ASSIGNEE its successors and assigns, the entire right, title and interest in and to said invention and improvements, said application and any and all letters patent which may be granted for said invention in the United States of America and its territorial possessions and in any and all foreign countries, and in any and all divisions, reissues, re-examinations and continuations thereof, including the right to file foreign applications directly in the name of ASSIGNEE and to claim priority rights deriving from said United States application to which said foreign applications are entitled by virtue of international convention, treaty or otherwise, said invention, application and all letters patent on said invention to be held and enjoyed by ASSIGNEE and its successors and assigns for their use and benefit and of their successors and assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNOR(S) had this assignment, transfer and sale not been made. ASSIGNOR(S) hereby authorize and request the Commissioner of Patents and Trademarks to issue all letters patent on said invention to ASSIGNEE. ASSIGNOR(S) agree to execute all instruments and documents required for the making and prosecution of applications for

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PATENT REEL: 056454 FRAME: 0730 United States and foreign letters patent on said invention, for litigation regarding said letters patent, or for the purpose of protecting title to said invention or letters patent therefore.

201	9.0	1.21)	
Date				

Name 1st Inventor Wei-Yu Chien

 $\frac{>019,9,27}{\text{Date}}$

Name 3rd Inventor Dun-Nian Yaung

>019.9.7/

4th Inventor Nai

2019.9.27 Date

Name 5th Inventor Pao-Tung Chen

2019.10.23

4-Sl-Chm Name 6th Inventor Yi-Shin Chu

Name 7th Inventor Yu-Yang Shen

RECORDED: 06/07/2021