504951760 06/08/2018

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4998507

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SHIH WEI BIH	04/25/2018
SHENG-WEI YEH	05/09/2018
YEN-YU CHEN	04/25/2018
WEN-HAO CHENG	04/25/2018
CHIH-WEI LIN	04/25/2018
CHUN-CHIH LIN	04/27/2018

RECEIVING PARTY DATA

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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15937339

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NAME OF SUBMITTER:	DAVID M. O'DELL	
SIGNATURE:	/David M. O'Dell/	
DATE SIGNED:	06/08/2018	

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Total Attachments: 3

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PATENT REEL: 046030 FRAME: 0195



Docket No.: P20172972US00/24061.3675US01

Customer No.: 000042717

ASSIGNMENT

WHEREAS, we,

(1)	Shih Wei Bih	of	Taichung City, Taiwan (R.O.C.)
(2)	Sheng-Wei Yeh	of	Taichung City, Taiwan (R.O.C.)
(3)	Yen-Yu Chen	of	Taichung City, Taiwan (R.O.C.)
(4)	Wen-Hao Cheng	of	Hsinchu, Taiwan (R.O.C.)
(5)	Chih-Wei Lin	of	Hsinchu, Taiwan (R.O.C.)
(6)	Chun-Chih Lin	of	Taipei City, Taiwan (R.O.C.)

have invented certain improvements in

REDISTRIBUTION LAYER METALLIC STRUCTURE AND METHOD

for which we have filed an application for Letters Patent of the United States of America on March 27, 2018, as U.S. Serial No. 15/937,339; and

WHEREAS, we authorize the attorney of record to update this document to include Patent Office information as deemed necessary (i.e., filing date, serial number, etc.);

WHEREAS, Taiwan Semiconductor Manufacturing Co., Ltd., ("TSMC"), 8, Li-Hsin Rd. 6, Hsinchu Science Park, Hsinchu, Taiwan 300-78, Republic of China. is desirous of obtaining the entire right, title, and interest in, to and under the said invention and the said application in the United States of America and in any and all countries foreign thereto;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, and other good and valuable consideration, we have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said TSMC, its successors, legal representatives, and assigns, the entire right, title, and interest in, to and under the said invention, and the said application, and all divisional, renewal, substitutional, and continuing applications thereof, and all Letters Patent of the United States of America which may be granted thereon and all reissues and extensions thereof, and all applications for Letters Patent which may be filed for said invention in any country or countries foreign to the United States of America, and all extensions, renewals, and reissues thereof, and all prior patents and patent applications from which a filing priority of the above-described patent application may be obtained, including the right to collect past damages; and we hereby authorize and request the Commissioner of Patents of the United States of America, and any official of any country or countries foreign to the United States of America, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said invention to the said TSMC, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant that we have full right to convey the entire interest herein assigned, and that we have not executed, and will not execute, any agreement in conflict herewith.

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AND WE HEREBY further covenant and agree that we will communicate to said TSMC, its successors, legal representatives and assigns, any facts known to us respecting said invention, and testify in any legal proceedings, sign all lawful papers, execute all divisional, renewal, substitutional, continuing, and reissue applications, make all rightful declarations and/or oaths and generally do everything possible to aid the said TSMC, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said invention in all countries.

Inventor Name:	Shih Wei Bih		
Residence Address:	14F2, No. 615-9, Sec. 2, Gongyi Rd., Nantun Dist. Taichung City 40844, Taiwan (R.O.C.)		
Dated: >0 () 4	, 75°	SHIM WILL BIM.	
		Inventor Signature	
Inventor Name:	Sheng-Wei Yeh		
Residence Address:	7F1, No. 688, Sec. 4, He Taichung City 408, Taiwa		
Dated: >≈ (8 =	5 . 1 .	Inventor Signature	
Inventor Name:	Yen-Yu Chen		
Residence Address:	10F1, No. 76, Lane 18, S Taichung City 407, Taiwa	Shang-an Rd., Xitun District n (R.O.C.)	
Dated: 10 16.	<u>. vs</u>	100 - Ju Chan Inventor Signature	
Inventor Name:	Wen-Hao Cheng		
Residence Address:	8, Li-Hsin Rd. 6 Hsinchu, Taiwan (R.O.C.)		
Dated: Feet 8. 4. 25		Wen-Hao Chenry Inventor Signature	
		Inventor Signature	

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Inventor Name:

Chih-Wei Lin

Residence Address:

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Mrventor Signature

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RECORDED: 06/08/2018

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