# 504652521 11/21/2017

# PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
HSIANG-WEI LIU	06/24/2014
TAI-I YANG	06/24/2014
CHENG-CHI CHUANG	06/24/2014
TIEN-LU LIN	06/25/2014

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City:	HSIN-CHU
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Postal Code:	300-77

### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	15819280

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NAME OF SUBMITTER:JAMES R. POTASHNIKSIGNATURE:/James R. Potashnik/DATE SIGNED:11/21/2017	ATTORNEY DOCKET NUMBER:	TSMCP454USA
	NAME OF SUBMITTER:	JAMES R. POTASHNIK
<b>DATE SIGNED:</b> 11/21/2017	SIGNATURE:	/James R. Potashnik/
	DATE SIGNED:	11/21/2017

**Total Attachments: 6** 

PATENT REEL: 044190 FRAME: 0157

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### PATENT ASSIGNMENT

## PARTIES TO THE ASSIGNMENT

### Assignor(s):

Hsiang-Wei Liu No. 16, Ln. 150, Guanghua Rd. Shanhua Dist. Tainan City 741 Taiwan (R.O.C.)

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#### 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

"HYBRID COPPER STRUCTURE FOR ADVANCE INTERCONNECT USAGE" 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
I hereby authorize and request my attorney associated with Customer No.
107476, to insert 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 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.

12014.06,24

Name 1st Inventor Hsiang-Wei Liu

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√2014.06.24 Date V Tai - T YAN q

Name 2<sup>nd</sup> Inventor Tai-I Yang

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V 794/6/24 Date

ame 3<sup>rd</sup> Inventor Cheng-Ch

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**RECORDED: 11/21/2017**