PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT2937957

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
YU-PO TANG	06/17/2014
SHIH-MING CHANG	06/17/2014
KEN-HSIEN HSIEH	06/17/2014
RU-GUN LIU	06/17/2014

RECEIVING PARTY DATA

Name:	TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY, LTD.	
Street Address:	ress: NO. 8, LI-HSIN RD. 6	
Internal Address:	SCIENCE-BASED INDUSTRIAL PARK	
City:	HSIN-CHU	
State/Country:	TAIWAN	
Postal Code:	300-77	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14331272

CORRESPONDENCE DATA

Fax Number: (214)200-0853

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: 214-651-5000

Email: ipdocketing@haynesboone.com **Correspondent Name:** HAYNES AND BOONE, LLP 2323 VICTORY AVENUE Address Line 1:

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ATTORNEY DOCKET NUMBER:	2011-1431-D / 24061.2924
NAME OF SUBMITTER:	DAVID M. O'DELL
SIGNATURE:	/David M. O'Dell/
DATE SIGNED:	07/15/2014

Total Attachments: 2

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PATENT REEL: 033310 FRAME: 0571

Docket No.: 2011-1431-D / 24061.2924

Customer No.: 42717

ASSIGNMENT

WHEREAS, we,

(1)	Yu-Po Tang	of	1F., No.74, Jingfu St., Wenshan Dist., Taipei City 116, Taiwan
(2)	Shih-Ming Chang	of	11F., No.7, Jiazheng 5th St., Zhubei City, Hsinchu County 302, Taiwan
(3)	Ken-Hsien Hsieh	of	5F., No.49, Sec. 2, Roosevelt Rd., Da-an Dist., Taipel City 106, Taiwan
(4)	Ru-Gun Liu	of	No.90, Chenggong 5th St., Zhubei City, Hsinchu County 302, Taiwan

have invented certain improvements in

VIA-FREE INTERCONNECT STRUCTURE WITH SELF-ALIGNED METAL LINE INTERCONNECTIONS

for which we have executed an application for Letters Patent of the United States of America,

of even date filed herewith; and filed on July 15, 2014 and assigned application number 14/331,272; 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 Company, Ltd., ("TSMC"), No. 8, Li-Hsin Rd. 6, Science-Based Industrial Park Hsin-Chu, Taiwan 300-77, 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, 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.

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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.

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:	Yu-Po Tang		
Residence Address:	IF., No.74, Jingfu St., Wenshan Dist., Taipei City 116, Taiwan		
Dated: 2014, 06.		Hw Po Zang. Inventor Signature	
Inventor Name:	Shih-Ming Chang		
Residence Address: Dated: 2014,06	11F., No.7, Jiazheng 5th St., Zhu	bei City Weinchu County 302, Taiwan	
Inventor Name:	Ken-Hsien Hsieh	V	
Residence Address: Dated: بنافر بنافر	<u>/</u> ?	., Da-an Dist., Taipei City 106, Taiwan <u>Ken - Hsien</u> <u>Hsieh</u> Inventor Signature	
Inventor Name:	Ru-Gun Liu		
Residence Address: Dated: <u>~ it, b</u>	-/17	ei City, Hsinchu County 302, Taiwan 194 - (200 214 Inventor Signature	

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RECORDED: 07/15/2014

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