

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
NAI-WEI LIU	06/07/2010
ZHEN-CHENG WU	06/07/2010
CHENG-LIN HUANG	06/07/2010
PO-HSIANG HUANG	06/07/2010
YUNG-CHIH WANG	06/07/2010
SHU-HUI SU	06/07/2010
DIAN-HAU CHEN	06/07/2010
YUH-JIER MII	06/08/2010

RECEIVING PARTY DATA

Name:	TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY, LTD.
Street Address:	NO. 8, LI-HSIN RD. VI
Internal Address:	HSINCHU SCIENCE PARK
City:	HSINCHU
State/Country:	TAIWAN
Postal Code:	300

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14151857

CORRESPONDENCE DATA

Fax Number:
 Phone: 7036841111
 Email: tsmc@ipfirm.com
Correspondence will be sent via US Mail when the email attempt is unsuccessful.
 Correspondent Name: LOWE HAUPTMAN & HAM, LLP (TSMC)
 Address Line 1: 2318 MILL ROAD
 Address Line 2: SUITE 1400

Address Line 4: ALEXANDRIA, VIRGINIA 22314

ATTORNEY DOCKET NUMBER: T5057-B078UA

NAME OF SUBMITTER: RANDY A. NORANBROCK

Signature: /Randy A. Noranbrock/

Date: 01/10/2014

Total Attachments: 2
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ASSIGNMENT

In consideration of the premises and other good and valuable consideration in hand paid, the receipt and sufficiency of which is hereby acknowledged, the undersigned,

- | | |
|--------------------|-------------------|
| 1) Nai-Wei LIU | 5) Yung-Chih WANG |
| 2) Zhen-Cheng WU | 6) Shu-Hui SU |
| 3) Cheng-Lin HUANG | 7) Dian-Hau CHEN |
| 4) Po-Hsiang HUANG | 8) Yuh-Jier MII |

who has made a certain new and useful invention, hereby sells, assigns and transfers unto

TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY, LTD. having a place of business at No. 8, Li-Hsin Rd. VI, Hsinchu Science Park, Hsinchu 300, Taiwan R.O.C.

its successors and assigns (hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100 in the invention entitled

BARRIER LAYERS FOR COPPER INTERCONNECT

(a) for which an application for United States Letters Patent was filed on 7-8-10, and identified by United States Patent Application No. 12/832,790; or

(b) for which an application for United States Letters Patent was executed on _____,

and the undersigned hereby authorizes and requests the United States Commissioner of Patents and Trademarks to issue any and all United States Letters Patent which may be granted therefore and any and all extensions, divisions, reissues, continuations, or continuations-in-part thereof, and the right to all benefits under the International Convention for the Protection of Industrial Property to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agrees that the attorneys of record in said application shall hereafter act on behalf of said ASSIGNEE;

AND the undersigned hereby agrees to transfer a like interest, and to render all necessary assistance in making application for and obtaining original, divisional, reissued or extended Letters Patent of the United States, upon request of the said ASSIGNEE, its successors, assigns and legal representatives, and without further remuneration, in and to any improvements, and applications for patent based thereon, growing out of or related to the said invention; and to execute any papers by the said ASSIGNEE, its successors, assigns and legal representatives, deemed essential to ASSIGNEE's full protection and title in and to the invention hereby transferred.

SIGNED on the date indicated aside my signature:

1) Nai-Wei Liu
Name: Nai-Wei LIU

2) Zhen-Cheng Wu
Name: Zhen-Cheng WU

3) Cheng-Lin Huang
Name: Cheng-Lin HUANG

6/7/2010
Date:

6/7/2010
Date:

6/7/2010
Date:

4) ✓ Po-Hsiang Huang
Name: Po-Hsiang HUANG

6/7/2010
Date:

5) Yung-Chih Wang
Name: Yung-Chih WANG

6/7/2010
Date:

6) Shu-Hui Su
Name: Shu-Hui SU

6/7/2010
Date:

7) Dian-Hau Chen
Name: Dian-Hau CHEN

6/7/2010
Date:

8) ✓ Yuh-Jier Mii
Name: Yuh-Jier MII

6/8/2010
Date: