#### PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
Chih-Kuang KAO	03/16/2010
Huei-Wen YANG	03/07/2010
Yung-Sheng HUANG	03/17/2010
Yu-Wen LIN	03/07/2010

#### **RECEIVING PARTY DATA**

Name:	TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY, LTD.	
Street Address:	No. 8, Li-Hsin Rd. VI, Hsinchu Science Park	
City:	Hsinchu	
State/Country:	TAIWAN	
Postal Code:	300	

#### PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12757325

#### **CORRESPONDENCE DATA**

(703)518-5499 Fax Number:

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 7036841111

Email: sramunto@ipfirm.com

Correspondent Name: Lowe Hauptman Ham & Berner, LLP (TSMC)

Address Line 1: 1700 Diagonal Road, Suite 300 Address Line 4: Alexandria, VIRGINIA 22314

ATTORNEY DOCKET NUMBER: T5057-B118U

NAME OF SUBMITTER: Benjamin J. Hauptman

**Total Attachments: 1** 

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REEL: 024210 FRAME: 0714

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Docket No.: T5057-B118U

### **ASSIGNMENT**

In consideration of the premises and other good and value which is hereby acknowledged, the undersigned,	ble consideration in hand paid, the receipt and sufficiency of
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1) Chih-Kuang KAO

4) Yu-Wen LIN

- 2) Huei-Wen YANG
- 3) Yung-Sheng HUANG

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-Hisn 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 LAYER FOR COPPER INTERCONNECT

- (a) for which an application for United States Letters Patent was filed on United States Patent Application No. 12/757, 325; 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 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) White Warf Kao

Name: Chih-Kuang KAO

Date:

Name: Huei-Wen YANG

Name: Yung-Sheng HUANG

Name: Yu-Wen LA

Name: Yu-Wen LA

Name: Yu-Wen LA

Name: Yu-Wen LA

PATENT REEL: 024210 FRAME: 0715

**RECORDED: 04/09/2010**