

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
CHERN-YOW HSU	01/23/2015
FU-TING SUNG	01/27/2015
SHIH-CHANG LIU	01/27/2015
RECEIVING PARTY DATA	
Name:	TAIWAN SEMICONDUCTOR MANUFACTURING CO., LTD
Street Address:	NO.8, LI-HSIN ROAD. 6, SCIENCE-BASED INDUSTRIAL PARK
City:	HSIN-CHU
State/Country:	TAIWAN
Postal Code:	300-77
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	14610691
CORRESPONDENCE DATA	
Fax Number:	(703)205-8050
<i>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.</i>	
Phone:	7032058000
Email:	mailroom@bskb.com, brian.mukuria@bskb.com
Correspondent Name:	BIRCH, STEWART, KOLASH & BIRCH, LLP
Address Line 1:	P.O. BOX 747
Address Line 4:	FALLS CHURCH, VIRGINIA 22040-0747
ATTORNEY DOCKET NUMBER:	0941-3127PUS1
NAME OF SUBMITTER:	BRIAN MUKURIA
SIGNATURE:	/brian.mukuria/
DATE SIGNED:	02/02/2015
Total Attachments: 2	
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ASSIGNMENT

WHEREAS, Chern-Yow HSU, Fu-Ting SUNG, and Shih-Chang LIU

hereafter referred to as ASSIGNOR, has/have invented certain new and useful improvements as described and set forth in the below identified application for United States Letters Patent:

Title: **RESISTIVE RANDOM ACCESS MEMORY STRUCTURE AND METHOD FOR FORMING THE SAME**

Filed: January 30, 2015 Serial No. 14/610,691

Executed on: January 23, 2015 and January 27, 2015

WHEREAS, Taiwan Semiconductor Manufacturing Co., Ltd. of No.8, Li-Hsin Road, 6, Science-Based Industrial Park, Hsin-Chu, Taiwan 300-77, R.O.C. hereinafter referred to as ASSIGNEE, is desirous of acquiring ASSIGNOR'S interest in the said invention and application and in any U.S. Letters Patent which may be granted on the same;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for good and valuable consideration, receipt of which is hereby acknowledged by Assignor, Assignor has/have sold, assigned and transferred, and by these presents does/do sell, assign and transfer unto the said Assignee, and Assignee's successors and assigns, all his/her/their rights, title and interest in and to the said invention and application and all future improvements thereon, and in and to any Letters Patent which may hereafter be granted on the same in the United States, the said interest to be held and enjoyed by said Assignee as fully and exclusively as it would have been held and enjoyed by said Assignor had this Assignment and transfer not been made, to the full end and term of any Letters Patent which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

Assignor further agrees/agree that he/she/they will, without charge to said Assignee, but at Assignee's expense, cooperate with Assignee in the prosecution of said application and/or applications, execute, verify, acknowledge and deliver all such further papers, including applications for Letters Patent and for the reissue thereof, and instruments of assignment and transfer thereof, and will perform such other acts as Assignee lawfully may request, to obtain or maintain Letters Patent for said invention and improvement, and to vest title thereto in said Assignee, or Assignee's successors and assigns.

IN TESTIMONY WHEREOF, Assignor has/have signed his/her/their name(s) on the date(s) indicated.

ASSIGNMENT

Dear

✓ 2015.1.23 ✓ Chern-Yow Hsu
Date Name: Chern-Yow HSU (Last name: HSU)

✓ 2015.1.27 ✓ Fu-Ting Sung
Date Name: Fu-Ting SUNG (Last name: SUNG)

✓ 2015.1.27 ✓ Shih-Chang Liu
Date Name: Shih-Chang LIU (Last name: LIU)