# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3369507

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
YI-JEN HUANG	05/19/2015
SAMUEL C. PAN	05/20/2015
SI-CHEN LEE	05/19/2015

## **RECEIVING PARTY DATA**

Name:	Taiwan Semiconductor Manufacturing Company Ltd.		
Street Address:	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:	14721939	

## **CORRESPONDENCE DATA**

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ATTORNEY DOCKET NUMBER:	TSM15-0105	
NAME OF SUBMITTER:	SHERRY L. COLGROVE	
SIGNATURE:	/SHERRY L COLGROVE/	
DATE SIGNED:	05/27/2015	

**Total Attachments: 1** 

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PATENT REEL: 035719 FRAME: 0821

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ATTORNEY DOCKET NO. TSM15-0105

#### **ASSIGNMENT**

WHEREAS, I, the undersigned inventor (or one of the undersigned joint inventors), of residence as listed, having invented certain new and useful improvements as below entitled, for which application for United States Letters Patent is made; and

WHEREAS, Taiwan Semiconductor Manufacturing Company, Ltd. (TSMC), a corporation organized and existing under the laws of Taiwan, the Republic of China, with its principal office at No. 8, Li-Hsin Rd. 6, Science-Based Industrial Park, Hsin-Chu, Taiwan, 300-77, R.O.C., and National Taiwan University, No. 1, Sec. 4, Roosevelt Rd., Zhongzheng Dist., Taipei City 100, Taiwan, R.O.C. (NTU) are desirous of acquiring my entire right, title and interest in and to said invention, and to said application and any Letters Patent that may issue thereon in the United States and all other countries throughout the world;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I hereby sell and assign to said TSMC and NTU, its successors and assigns, my entire right, title and interest in and to said invention and in and to said application and all patents which may be granted therefor, and all future non-provisional applications including divisions, reissues, substitutions, continuations, and extensions thereof; and I hereby authorize and request the Commissioner for Patents to issue all patents for said invention, or patent resulting therefrom, insofar as my interest is concerned, to said TSMC and NTU, as assignees of my entire right, title and interest. I declare that I have not executed and will not execute any agreement in conflict herewith.

I also hereby sell and assign to TSMC and NTU, its successors and assigns, my foreign rights to the invention disclosed in said application, in all countries of the world, including, but not limited to, the right to file applications and obtain patents under the terms of the International Convention for the Protection of Industrial Property, and of the European Patent Convention, and further agree to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such patent rights.

I hereby further agree that I will communicate to said TSMC and NTU, or to its successors, assigns, and legal representatives, any facts known to me respecting said invention or the file history thereof, and at the expense of said Assignees, its legal representatives, successors, or assigns, will testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, reissue and substitute applications, make all lawful oaths, and generally do everything possible to aid said TSMC and NTU, its legal representatives, successors, and assigns, to obtain and enforce proper patent protection for said invention in all countries.

IN WITNESS WHEREOF, I hereunto set my hand and seal this day and year,

TITLE OF INVENTION	RRAM Devices and Methods of Manufacturing Thereof				
SIGNATURE OF INVENTOR AND NAME	Yi-Ja Huang	Same R			
	Yi-Jen Huang	Samuel C. Pan	Si-Chen Lee		
DATE	May 19, 2015	Nay 20, 2015	- May 19, 20/5		
RESIDENCE	Hsin-Chu, Taiwan R.O.C.	Hsin-Chu, Taiwan R.O.C.	Taipei, Taiwan R.O.C.		

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RECORDED: 05/27/2015

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