

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
INDUSTRIAL TECHNOLOGY RESEARCH INSTITUTE	11/09/2016
RECEIVING PARTY DATA	
Name:	TAIWAN SEMICONDUCTOR MANUFACTURING CO., LTD.
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City:	HSINCHU
State/Country:	TAIWAN
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PROPERTY NUMBERS Total: 4	
Property Type	Number
Patent Number:	8300449
Patent Number:	8823415
Patent Number:	8872543
Patent Number:	8711601
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SIGNATURE:	/Daniel R. McClure/
DATE SIGNED:	12/05/2016
Total Attachments: 1 source=00407931#page1.tif	

ASSIGNMENT OF U.S. PATENTS

WHEREAS, **Industrial Technology Research Institute**, having a place of business at **No.195, Sec. 4, Chung Hsing Rd., Chutung, Hsinchu,31040, Taiwan** hereinafter referred to as **ASSIGNOR**, owns the full right, title, and interest in

No	U.S. patent application No. (U.S. patent No.):	Filing Date	Title:
1	12/955,657 (US 8,300,449)	2010/11/29	Resistive random access memory and verifying method thereof
2	13/645,493 (US 8,823,415)	2012/10/04	Logic gate
3	13/872,168 (US 8,872,543)	2013/04/29	Configurable logic block and operation method thereof
4	13/338,264 (US 8,711,601)	2011/12/28	Resistive random access memory cell and resistive random access memory module

WHEREAS, **Taiwan Semiconductor Manufacturing Company, Ltd.** having a place of business at **No.8, Li-Hsin Rd. 6, Science-Based Industrial Park Hsin-Chu, Taiwan 300-77**, hereinafter referred to as **ASSIGNEE**, is desirous of acquiring **ASSIGNOR'S** interest in and to said invention and any U.S. provisional, continuation, continuation-in-part, divisional, reissued, and re-examined applications and patents, to be filed or issued, relating to said invention.

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged by **ASSIGNOR**, **ASSIGNOR** has sold, assigned and transferred and does hereby sell, assign and transfer unto **ASSIGNEE**, and **ASSIGNEE'S** successors and assigns the entire right, title and interest, for the United States of America, in and to said invention and all the rights and privileges in any application and under any and all patents that may be granted in the U.S. for the invention, including but not limited to, all corresponding provisional, continuation, continuation-in-part, divisional, reissue, and reexamination applications.

INDUSTRIAL TECHNOLOGY RESEARCH INSTITUTE

By: Chiu-Ling Chen

Name: Chiu-Ling Chen
Title: Division Director

Date: 11.09.2016