PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT			
NATURE OF CONVEYANCE:	ASSIGNMENT			

CONVEYING PARTY DATA

Name	Execution Date
MING CHYI LIU	04/24/2014
YUAN-TAI TSENG	04/24/2014
SHIH-CHANG LIU	04/24/2014
CHIA-SHIUNG TSAI	04/25/2014

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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14261526

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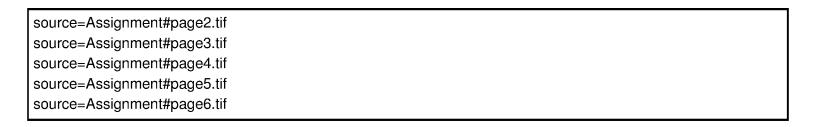
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SIGNATURE:	/David W. Potashnik/
DATE SIGNED:	05/14/2014

Total Attachments: 6

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PATENT ASSIGNMENT

PARTIES TO THE ASSIGNMENT

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Assignee:

Taiwan Semiconductor Manufacturing Co., Ltd. No. 8, Li-Hsin Rd. 6, Hsin-Chu Science Park Hsin-Chu, Taiwan 300-77 Republic of China

<u>AGREEMENT</u>

WHEREAS, ASSIGNOR(S) (listed above) are inventor(s) of an invention entitled

"LEAKAGE RESISTANT RRAM/MIM STRUCTURE" for which:

a n	on-provisional application for United States Letters Patent:	:		
\boxtimes	was executed on even date preparatory to filing (each inventor	should	sign f	this
	Assignment on the same day as he/she signs the Declaration); of	i or		
	was filed on and accorded U.S. Serial No; or			

Page 1 of 6 PATENT
REEL: 032883 FRAME: 0582

I hereby authori	ze and	request	my att	orney	associate	d with	Custome	No.
107476, to inser	t on the	designat	ed line	s belov	w the filing	g date	and applic	ation
number of said application when known:								
U.S. Serial No.		· · · · · · · · · · · · · · · · · · ·	·	···········				
filed on								

WHEREAS, ASSIGNEE (listed above), a corporation of the Republic of China is desirous of acquiring the entire right, title and interest in and to the invention and in and to any letters patent that may be granted therefore in the United States and in any and all foreign countries;

NOW, THEREFORE, in exchange for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR(S) hereby sell, assign and transfer unto ASSIGNEE its successors and assigns, the entire right, title and interest in and to said invention and improvements, said application and any and all letters patent which may be granted for said invention in the United States of America and its territorial possessions and in any and all foreign countries, and in any and all divisions, reissues, re-examinations and continuations thereof, including the right to file foreign applications directly in the name of ASSIGNEE and to claim priority rights deriving from said United States application to which said foreign applications are entitled by virtue of international convention, treaty or otherwise, said invention, application and all letters patent on said invention to be held and enjoyed by ASSIGNEE and its successors and assigns for their use and benefit and of their successors and assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNOR(S) had this assignment, transfer and sale not been made. ASSIGNOR(S) hereby authorize and request the Commissioner of Patents and Trademarks to issue all letters patent on said invention to ASSIGNEE. ASSIGNOR(S) agree to execute all instruments and documents required for the making and prosecution of applications for

United States and foreign letters patent on said invention, for litigation regarding said letters patent, or for the purpose of protecting title to said invention or letters patent therefore.

Date

Name 1st Inventor Ming Chyi Liu

Page 3 of 6 PATEN

7014/04/x4

Date

Name 200 Inventor Yuan-Tai Tseng

PATENT

REEL: 032883 FRAME: 0585

Name 3rd Inventor Shih Chang Liu

V 4/25/2014

Date

Name

4th Inventor Chia-Shiung Tsai

Page 6 of 6