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PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
OH-SEONG KWON	09/06/2012
JIN-HYUN KIM	09/06/2012
НҮИЛ-НО СНОІ	09/06/2012

RECEIVING PARTY DATA

Name:	SAMSUNG ELECTRONICS CO., LTD.	
Street Address:	129, SAMSUNG-RO, YEONGTONG-GU	
City:	SUWON-SI, GYEONGGI-DO	
State/Country:	KOREA, DEMOCRATIC PEOPLE'S REPUBLIC OF	
Postal Code:	443-742	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13609330

CORRESPONDENCE DATA

Fax Number: 5712830740 Phone: 5712830720

Email: aloomis@volentine.com

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via

US Mail.

Correspondent Name: VOLENTINE & WHITT, PLLC

Address Line 1: 11951 FREEDOM DRIVE, SUITE 1300

Address Line 4: RESTON, VIRGINIA 20190

ATTORNEY DOCKET NUMBER:	SEC.3216
NAME OF SUBMITTER:	ADAM C. VOLENTINE

Total Attachments: 2

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ASSIGNMENT

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Name(s) of Inventor(s)	1. OH-SEO	NG KWON	7	
mremor(a)	2. JIN-HY	UN KIM	8.	- AND STREET,
	3. <u>HYUN-H</u> 0	O CHOI	9.	
	4.		10.	
	5		11	· · · · · · · · · · · · · · · · · · ·
	6		12.	
Insert	the undersigned	i hereby sell(s) and a	assign(s) to	
Name(s) of Assignce(s) &		SAMSUNG	FLECTRONICS C	CO., LTD.
		, Samsung-ro,	Yeongtong-gu,	•
Address(es)	of Suwo	on-si, Gyeongg	i-do 443-742,	Republic of Korea
	*	signated as the Assig		t, title and interest for the United
Title of				
Invention	RESISTIVE MEMORY DEVICE AND METHOD OF WRITING DATA USING MULTI-MODE SWITCHING CURRENT			F WRITING DATA USING
Date of Signing of	for which an ap	plication for patent i	in the United States	of America has been executed by
Application	the undersigned	l on		
	application and	any continuing, divi e assignments in cor	isional or reissue ap	ry in connection with this oplications thereof and also to applications as the Assignee may
	The undersigned agree(s) to execute all papers necessary in connection with an interference which may be declared concerning this application or continuing, or reissue thereof and to cooperate with the Assignee in every way possible in obtaining the cooperate and going forward with such interference.			plication or continuing, division or
	may be necessar	d agree(s) to execute ry in connection wit of Industrial Property	h claims or provision	numents and perform any act which ons of the International Convention ents.
		d agree(s) to perform id United States pate		s which may be necessary to obtain

Page 1 of 2

REEL: 028932 FRAME: 0046

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned

The undersigned hereby grant(s) the practitioners associated with the <u>CUSTOMER NUMBER 20987</u> the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent Office for recordation of this document.

The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patents of the United States resulting from said application or any division or divisions or continuing or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

l)ate	2012, 05, 06	Signature of Inventor	OH-SECOCT KWON
Date _	2012 . 9 . 6	Signature of Inventor	JIN-HYUW KIM
Date _	2012. 9.6	_ Signature of Inventor	MMM-fo Chot
Date		_ Signature of Inventor	
Date _		Signature of Inventor	4
Date		Signature of Inventor	
(Note regarding Witnessing: It is recommended that the execution by the Inventor(s) be witnessed by at least two witnesses who sign here. However, the current practice of the U.S. Patent and Trademark Office is to record an Assignment even it has not been witnessed.)			
	Witness-		
	Witness		
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Applicant Reference No. SPX201112-0008US			

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