#1581 P.002 /004

	D0	cket No.: SEC.2202	
FORM PTO-1595 (Modified) (Rev. 03-01) OMB No. 0651-0027 (exp.5/31/2002)	ECORDATION FORM COVER SHEET	U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office	
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To the Director of the United States Paten	nt and Trademark Office: Please record the attack	ned original documents or copy thereof.	
Name of conveying party(ies): Sang-gu KANG Young-ho LIM		Name and address of receiving party(ies): Name: Samsung Electronics Co., Ltd.	
	Address: 416, Mactan-	dong, Yeongtong-gu,	
Additional names(s) of conveying party(ies)	☐ Yes ⊠ No		
3. Nature of conveyance:			
	erger		
☐ Security Agreement ☐ Ch	hange of Name City: Suwon-si	State/Prov.: Gyconggi-do	
☐ Other	Country: Republic of K	orea ZIP: 442-742	
Execution Date: January 2, 2008	Additional name(s) & address((es) ☐ Yes ⊠tNo	
Application number(s) or patent numbers((s):		
If this document is being filed together with a	a new application, the execution date of the a	application is:	
Patent Application No. Filing date		B. Patent No.(s)	
12/023,239 January 31	1, 2008		
	Additional numbers		
Name and address of party to whom corre concerning document should be mailed:	espondence 6. Total number of applications	ations and patents involved:	
Name: STEPHEN R. WHITT	7. Total fee (37 CFR 3.4	1):\$ 40.00	
Registration No. 34,753		☐ Enclosed - Any excess or insufficiency should be	
Address: VOLENTINE & WHITT, PLLC	credited or debited	to deposit account	
ONE FREEDOM SQUARE	Authorized to be c	harged to deposit account	
11951 FREEDOM DRIVE, SUITE 1260	8. Deposit account numb	er:	
City: RESTON State/Pr	rov.: <u>V</u> A		
Country: USA ZIP: 2	20190 (Attach duplicate copy of	this page if paying by deposit account)	

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

STEPHEN R. WHITT

Name of Person Signing

DO NOT USE THIS SPACE

Signature

February 1, 2008

Date

VOLENTINE & WHITT, P.L.L.C. (01/2007)

ATTORNEY DOCKET NO. SEC. 1202

ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned Insert 1. Sang-gu KANG _____ 7. _____ Name(s) of Inventor(s) 2. Young-ho LIM 8. 3. _____ 9. _____ ______ 10. ______ ____ II. ______ 12. _____ the undersigned hereby sell(s) and assign(s) to Insert Name(s) of SAMSUNG FLECTRONICS CO. LTD. Assignee(s) & 416, Maetan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do 442-742, Republic of Korea Address(cs) (hereinafter designated as the Assignee) the entire right, title and interest for the United States as defined in 35 USC 100, in the invention known as Title of NON-VOLATILE MEMORY DEVICE HAVING MONITORING MEMORY CELL AND Invention RELATED METHOD OF DRIVING USING VARIABLE READ VOLTAGE for which so application for patent in the United States of America has been executed by Date of Signing of January 2, 2008 Application the undersigned on The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient. The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuing, division or reissue thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference. The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements. The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain. a grant of a valid United States patent to the Assignee.

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ATTORNEY DOCKET NO. _SEC.2202___

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.

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

Date _	January 2 2008	Signature of Inventor	Sang-gu Kang	
Date ,	January 2 2008_	Signature of Inventor	Young-Do Lim	
Date		Signature of Inventor		
Date		Signature of Inventor		
Date		Signature of Inventor		
Date		Signature of Inventor		
	Patent and Trademark O	ffice is to record an Assig	However, the current practice of the U.S. mment even it has not been witnessed.)	
Applicant Re	ference No. SS-	29544-US		
Page 2 of 2				
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PATENT REEL: 020445 FRAME: 0173

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RECORDED: 02/01/2008