Docket No.: SEC.1929 03-15-2007 **DRM PTO-1595 (Modified)** EET U.S. DEPARTMENT OF COMMERC ev. 03-01) Patent and Trademark Office MB No. 0851-0027 (exp.5/31/2002) U.S. PTO DBA/REVO3 11/710991 Tab settings -> -> 02/27/2007 103385498 To the Director of the United States Patent and Trauent I the attached original documents or copy thereof. 1. Name of conveying party(ies): 2. Name and address of receiving party(ies): LEE, Kyeong-Han CHOI, Young-Joon Samsung Electronics Co., Ltd. Name: LEE, Yang-Sup Address: 416, Maetan-dong, Yeongtong-gu, Yes X No Additional names(s) of conveying party(ies) 3. Nature of conveyance: Assignment Merger □ Security Agreement City: Suwon-Si Change of Name State/Prov.: Gyeonggi-do Republic of Korea Other Country: ZIP: Execution Date: February 26, 2007 Additional name(s) & address(es) ☐ Yes **⊠** No Application number(s) or patent numbers(s): f this document is being filed together with a new application, the execution date of the application is: February 26, 2007 Patent Application No. Filing date B. Patent No.(s) **NEW FEBRUARY 27, 2007** ☐ Yes ☒ No Additional numbers Name and address of party to whom correspondence Total number of applications and patents involved: concerning document should be mailed: Name: ADAM C. VOLENTINE 7. Total fee (37 CFR 3.41):....\$ 40.00 Registration No. 33289 Enclosed - Any excess or insufficiency should be credited or debited to deposit account Address: VOLENTINE & WHITT, PLLC Authorized to be charged to deposit account 11951 FREEDOM DRIVE, SUITE 1260 8. Deposit account number: 50-0238 City: RESTON State/Prov.: _VA Country: USA ZIP: 20190 (Attach duplicate copy of this page if paying by deposit account) DO NOT USE THIS SPACE 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 cop of the original document.

ADAM C. VOLENTINE Name of Person Signing

Signature

FEB. 27, 2007 Date

Total number of pages including cover sheet, attachments, and document:

Mail documents to be recorded with required cover sheet Information to:
Mail Stop Assignment Recordation Services
Director of the United States Patent and Trademark Office
P.O. Box 1450, Alexandria, VA 22313-1450

02/28/2007 CHGUYEN2 00000045 11710991

)6 FC:8021

40.00 GP

PATENT

REEL: 019057 FRAME: 0029

YOLENTINE & WI	HTT, P I.,I.,C. (01/2007) ATTORNEY DOCKET NO. <u>SEC 1929</u>			
	ASSIGNMENT			
Insert Name(s) of Inventor(s)	In consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned			
	1. Kyeong-Han LEE 7.			
(0)	2. Young-Joon CHOI / hu 8.			
	3. Yang-Sup LEE ON 9.			
	4, 10,			
	5 11			
Insort Name(s) of Assignee(s) &	6. 12. the undersigned hereby soll(s) and assign(s) to			
	SAMSUNG ELECTRONICS CO. LTD.			
Address(cs)	416, Maetan-dong, Yoongtong-gu, of Suwon-si, Gyeonggi-do, Republic of Korea			
	(hereinafter designated as the Assignce) the entire right, title and interest for the United States as defined in 35 USC 100, in the invention known as			
Title of Invention	MEMORY SYSTEM INCLUDING FLASH MEMORY AND METHOD OF			
	OPERATING THE SAME			
Dute of Signing of	for which an application for patent in the United States of America has been executed by			
Application	the undersigned on February 26, 2007			
	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.			

Page 1 of 2

46106000 PROTORO ARICA DOUZO DE CARTA LA 13

THE THE THE PROPERTY OF THE PR

PATENT

REEL: 019057 FRAME: 0030

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

ATTORNEY DOCKET NO. SEC. 1929

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).

Dute _	2007, 5.26	Signature of Inventor	Rysong-Iran LEE	====
Date _2	007, 2,26	Signature of Inventor	Young Joan CHOS	
Date	2007. 2.26	Signature of Inventor	Yang-Bup Like	<u> </u>
Date _		Signature of Inventor		
Date _		Signature of Inventor		
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		

Applicant Reference No. _____ID16361-US____

rage 2 of 2

RECORDED: 02/27/2007

276701172463443

SERVING BLOOM (C. WITH LINE BLOOK OF THE CORNER BOOK OF

PATENT

REEL: 019057 FRAME: 0031