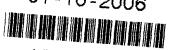
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FORM PTO-1595 (Modified) (Rev. 03-01) OMB No. 0651-0027 (exp.5/31/2002)

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P08A/REV03



1,03154551

Docket No.: SEC.1555

U.S. DEPARTMENT OF COMMERCE

Patent and Trademark Office

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Du-eung KIM Hyung-rok OH	Name: Samsung Electronics Co., Ltd.	
Kwang-jin LEE	Address: 416, Maetan-dong, Yeongtong-gu, Suwon-si,	
Additional names(s) of conveying party(ies)		
3. Nature of conveyance:		
M Accignment	86 = 8	
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☐ Security Agreement ☐ Change of Name	City: Gyeonggi-do State/Prov.:	
☐ Other	Country: Republic of Korea ZIP:	
Execution Date: December 26, 2005	Additional name(s) & address(es) ☐ Yes ☒ No	
4. Application number(s) or patent numbers(s):	}	
If this document is being filed together with a new application,	the execution date of the application is: Decembe 26, 2005	
Patent Application No. Filing date	B. Patent No.(s)	
NEW DECEMBER 29, 2005		
01/03/2006 CNEGA1 00000002 11319602 06 FC:8021 40.00 0F Additional numbers	☐ Yes ⊠ No	
5. Name and address of party to whom correspondence		
concerning document should be mailed:	6. Total number of applications and patents involved:	
Name: ADAM C. VOLENTINE	7. Total fee (37 CFR 3.41):\$ 40.00	
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Address: VOLENTINE FRANCOS & WHITT, PLLC	credited or debited to deposit account	
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City: RESTON State/Prov.: VA	50-0238	
Country: USA ZIP: 20190	(Attach duplicate copy of this page if paying by deposit account)	
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9. Statement and signature.		
To the best of my knowledge and belief, the foregoing inforr of the original document.	nation is true and correct and any attached copy is a true copy	
ADAM C. VOLENTINE	DECEMBER 29, 2005	
Name of Person Signing	Signature 3 Date	
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ASSIGNMENT

Insert	In consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned
Name(s) of	1. Sang-beom KANG 5.
Inventor(s)	2. Du-eung KIM 6.
	3. Hyung-rok OH 7.
	4. Kwang-jin LEE 8.
Insert	the undersigned hereby sell(s) and assign(s) to
Name(s) of Assignee(s) &	SAMSUNG ELECTRONICS CO., LTD.
Assigned(s) &	416, Maetan-dong, Yeongtong-gu,
Address(es)	of Suwon-si, Gyeonggi-do, Republic of Korea
Title of Invention	(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 PHASE CHANGE RANDOM ACCESS MEMORY, BOOSTING CHARGE PUMP AND METHOD OF GENERATING WRITE DRIVING VOLTAGE
Date of	for which an application for patent in the United States of America has been executed by
Signing of Application	the undersigned on December 26, 2005
	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 understand equates to execute all names and decomposite and nonforma envises which

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.

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.

Page 1 of 2

VOLENTINE FRANCOS & WHITT, P.L.L.C. (9/2004)

RECORDED: 12/29/2005

Δ	TTORNEY	DOCKET NO.	SEC.1555
~	II (JNNE)	DUCABI NO.	34,6.4333

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.

Date <u>02626</u>	/2005 Signature of Inventor	Sang-been KANG
Date Ju. 1	Signature of Inventor	Du-Emen Jum Du-eung RIM Mynag-Pull UM Byung-rok OH
Date beczb/	2005 Signature of Inventor	Mynag-Pull UM. Byung-zok OH
Date Dec. 26	Signature of Inventor	Kwang-Jin Lee
Oate	Signature of Inventor	
Date	Signature of Inventor	
Date	Signature of Inventor	
(Note regal witnessed Patent and	Signature of Inventor arding Witnessing: It is recommended by at least two witnesses who sign here	d that the execution by the Inventor(s) be e. However, the current practice of the U.S. gnment even it has not been witnessed.)
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PATENT REEL: 017430 FRAME: 0951