U.S. PTO 12/654739 12/30/2009

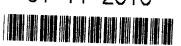
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o the Honorable Commissioner of Patents and Trademarks: Plea	ase record the attached original documents or copy thereof.	
. Name of conveying party(ies):	2. Name and address of receiving party(ies):	
Myung-Jae LEE, Sang Seok KANG, Jong Hyoung LIM Additional name(s) of conveying party(ies) attached? No	Name: Samsung Electronics Co., Ltd. Internal Address: Street Address: 416 Maetan-dong, Yeongtong-gu, City: Suwon-si, Gyeonggi-do, REPUBLIC OF KOREA	
	Additional name(s) & address(es) attached? No	
. Nature of conveyance: X Assignment Merger Security Agreement Change of Name Other		
Execution Date: November 18, 2009	12654739	
. Application number(s) or patent number(s):		
If this document is being filed together with a new application, the exe A. Patent Application No.(s)	cution date of the application is: November 18, 2009 B. Patent No.(s)	
Additional number	I rs attached? No	
. Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: One	
Name: Eugene M. Lee Internal Address: LEE & MORSE, P.C. Street Address: 3141 Fairview Park Drive, Suite 500 City: Falls Church, State: VA ZIP: 22042		
	7. Total fee (37 C.F.R., 3.41)\$40.00	
	X Enclosed (PTO-2038) X Authorized to be charged to deposit account any addition fees	
	8. Deposit account number: 5-01645	
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PATENT REEL: 023765 FRAME: 0589

ASSIGNMENT		
Name and Address of Assignee	For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each undersigned inventor has sold and assigned, and by these presents hereby sells and assigns, unto SAMSUNG ELECTRONICS CO., LTD., 416, Maetan-dong, Yeongtong-gu Suwon-si, Gyeonggi-do, Republic of Korea	
	(hereinafter ASSIGNEE) all right, title and interest for the United States, its territories and possessions in and to his invention relating to	
Title of Invention	SEMICONDUCTOR MEMORY DEVICE AND METHOD OF REDUCING CONSUMPTION OF STANDBY CURRENT THEREIN as set forth in this United States Patent Application	
	executed concurrently herewith	
Check One	executed on	
Letters Patent extensions thei term or terms if the undersigne Each such Letters Pa Each herein sold and Each representatives deliver any pa desirable by sa including divis	United States Patent Application including any and all divisions or continuations thereof and in and to any and all of the United States which may issue on any such application or for said invention, including any and all reissues or reof, to be held and enjoyed by said ASSIGNEE, its successors, legal representatives and assigns to the full end of the for which any and all such Letters Patent may be granted as fully and entirely as would have been held and enjoyed by d had this Assignment not been made; of the undersigned hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all ment to said ASSIGNEE, its successors or assigns in accordance herewith; of the undersigned warrants and covenants that he has the full and unencumbered right to sell and assign the interests assigned and that he has not executed and will not execute any document or instrument in conflict herewith; of the undersigned further covenants and agrees he will communicate to said ASSIGNEE, its successors, legal or assigns all information known to him relating to said invention or patent application and that he will execute and pers, make all rightful oaths, testify in any legal proceedings and perform all other lawful acts deemed necessary or aid ASSIGNEE, its successors, legal representatives or assigns to perfect title to said invention, to said application ions and continuations thereof and to any and all Letters Patent which may be granted therefore or thereon, including	
or assigns in ol Each	ensions, in said ASSIGNEE, its successors, or assigns or to assist said ASSIGNEE, its successors, legal representatives of the united States for said invention; of the undersigned hereby grants the firm of LEE & MORSE, P.C. the power to insert in this Assignment any further which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation	

of this Assignment.

NAMES AND SIGNATURES OF INVENTORS					
Name: Myung-Jae LEE	Signature:	Lito .	Date:		
Name: Sang Seok KANG	Signature:	SANGT-SENKIKANGT	Date: 2019. 11. 18		
Name: Jong Hyoung LIM	Signature:	allasta,	Date:10-9 11/18		
NAMES AND SIGNATURES OF WITNESSES					
Name:	Signature:		Date:		
Name:	Signature:		Date:		

Note: Prima facie evidence of execution may optionally be obtained by execution of this document before a U.S. Consul or before a local officer authorized to administer oaths whose authority is proved by a certificate from a U.S. Consul.

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