08/03/2009

ORM PTO-1595 (mc

'o the Honorable Co

Jay P. Beale

Name of Person Signing

Attorney Docket No. 249/661

08-11-2009

IN FORM COVER SHEET **INTS ONLY**

U.S. DEPARTMENT OF COMMER Patent and Trademark Of

. Name of conveying	g party(ies):	2. Name and address of receiving party(ies):
HAE-YOUNG CHUNG, YANG-KI KIM, SEOK-WOO CHOI 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 conveya X Assignment Security Agr Other	Merger	
Execution Date: J	uly 22, 2009	
l. Application numb	er(s) or patent number(s): 1246/14/	
If this document is	s being filed together with a new application, the exe	cution date of the application is: July 22, 2009
A. Patent Applica		B. Patent No.(s)
	Additional number	
o. Name and address document should	s of party to whom correspondence concerning be mailed:	6. Total number of applications and patents involved: One
Street Address: 3	1. Lee LEE & MORSE, P.C. 141 Fairview Park Drive, Suite 500 ch, 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
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PATENT REEL: 023080 FRAME: 0568

August 3, 2009

Date

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 HAVING DRIVER FOR COMPENSATING FOR PARASITIC RESISTANCE OF DATA INPUT/OUTPUT PADS as set forth in this United States Patent Application	
	executed concurrently herewith	
Check One	executed on	
	Serial No Filed	

in and to said United States Patent Application including any and all divisions or continuations thereof and in and to any and all Letters Patent of the United States which may issue on any such application or for said invention, including any and all reissues or extensions thereof, to be held and enjoyed by said ASSIGNEE, its successors, legal representatives and assigns to the full end of the term or terms for which any and all such Letters Patent may be granted as fully and entirely as would have been held and enjoyed by the undersigned had this Assignment not been made;

Each of the undersigned hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all such Letters Patent to said ASSIGNEE, its successors or assigns in accordance herewith;

Each of the undersigned warrants and covenants that he has the full and unencumbered right to sell and assign the interests herein sold and assigned and that he has not executed and will not execute any document or instrument in conflict herewith;

Each of the undersigned further covenants and agrees he will communicate to said ASSIGNEE, its successors, legal representatives or assigns all information known to him relating to said invention or patent application and that he will execute and deliver any papers, make all rightful oaths, testify in any legal proceedings and perform all other lawful acts deemed necessary or desirable by said ASSIGNEE, its successors, legal representatives or assigns to perfect title to said invention, to said application including divisions and continuations thereof and to any and all Letters Patent which may be granted therefore or thereon, including reissues or extensions, in said ASSIGNEE, its successors, or assigns or to assist said ASSIGNEE, its successors, legal representatives or assigns in obtaining, reissuing or enforcing Letters Patent of the United States for said invention;

Each of the undersigned hereby grants the firm of LEE & MORSE, P.C. the power to insert in this Assignment any further identification 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: Hae-young CHUNG	Signature: 7651079	Date: 09.07.22		
Name: Yang-ki KIM	Signature:	Date: 69. 07.22		
Name: Seok-woo CHOI	Signature: 2	Date: 19. 19. 70		
NAMES AND SIGNATURES OF WITNESSES				
Name:	Signature:	Date:		
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