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FORM PTO-1595 (modified) (Rev. 6-93)	SHEET U.S. DEPARTMENT OF COMM		
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омв No. 0651-0011 (ехр. 4/94) 1035166			
To the Honorable Commissioner of Patents and Trademarks: Pl	ease record the attached original documents or copy therec		
1. Name of conveying party(ies):	2. Name and address of receiving party(ies):		
Eun-Chul AHN, Min-Ho O, Jong Ho LEE	Name: Samsung Electronics Co., Ltd.		
Additional name(s) of conveying party(ies) attached? No	Internal Address: Street Address: 416 Maetan-dong, Yeongtong-gu, City: Suwon-si, Gyeonggi-do, REPUBLIC OF KOREA		
7-18.08	Additional name(s) & address(es) attached? No		
 3. Nature of conveyance: <u>X</u> Assignment Merger Security Agreement Change of Name Other 			
Execution Date: June 18, 2008 and June 20, 2008			
4. Application number(s) or patent number(s):			
If this document is being filed together with a new application, the ex A. Patent Application No.(s)	xecution date of the application is: June 18, 2008 and June 20, 2008 B. Patent No.(s)		
Additional numb	bers attached? <u>No</u>		
 Name and address of party to whom correspondence concerning document should be mailed: 	6. Total number of applications and patents involved: One		
Name: <u>Eugene M. Lee</u> Internal Address: <u>LEE & MORSE, P.C.</u> Street Address: <u>3141 Fairview Park Drive, Suite 500</u> City: <u>Falls Church</u> , State: <u>VA</u> ZIP: <u>22042</u>			
	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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document.	······································		

Eugene M. Lee Name of Person Signing Attorney Docket No. 259/048

TIDE. July 18, 2008 Signature Date

Total number of pages including cover sheet, attachments, and document: 2 pages attached, incl. cover

Mail documents to be recorded with required cover sheet information to: Commissioner of Patents & Trademarks, Box/Assignments NU1 0000031 12219263 Alexandria, VA. 22313 05 FC:8021 40.00 OP

> PATENT REEL: 021321 FRAME: 0323

ASSIGNMENT

Name and Address of Assignce	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 INCLUDING THE SAM					SYSTEM
	as set forth in this United States Patent Application					

	Rexecuted concurrently herewith			
Chock One	c 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 raid 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 form 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: Eun-Chul AHN	Signature:	Date: 208. 6. 1		
Name: Min-Ho O	Signature:	Date: 2008.6.20		
Name: Jong Ho LEE	Signature:	Date:)~18, 6, 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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