FORM PTO-1595 (modified)

09/06/2011



103632229

**Patent and Trademark Office** 

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof. 1. Name of conveying party(ies): 2. Name and address of receiving party(ies): SEUNG-HUN LEE, BYEONG-CHAN LEE, SANG-BOM Name: Samsung Electronics Co., Ltd. **KANG** Internal Address: Street Address: 416 Maetan-dong, Yeongtong-gu, Additional name(s) of conveying party(ies) attached? No City: Suwon-si, Gyeonggi-do, REPUBLIC OF KOREA Additional name(s) & address(es) attached? No 3. Nature of conveyance: Assignment <u>X</u> Merger Security Agreement Change of Name Other Execution Date: August 22, 2011 4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: A. Patent Application No.(s) B. Patent No.(s) 13/223,783 Additional numbers attached? No 5. Name and address of party to whom correspondence concerning 6. Total number of applications and patents document should be mailed: 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 additional
- 8. Deposit account number: 5-01645

(Attach duplicate copy of this page if paying by deposit-account)

DO NOT USE THIS SPACE

09/02/2011 AWONDAF1 00000033 13223783

9. 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 copy of the original

document.

Eugene M. Lee

Name of Person Signing

Attorney Docket No. 253/181

Day Wholed Reg. No. 62.199
Signature

<u>September 1, 2011</u>

01 FC:8021

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 Alexandria, VA. 22313

**PATENT** 

**REEL: 026900 FRAME: 0280** 

## ASSIGNMENT

Name and Address of Assignee	For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledg 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	
	(hereinaster 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 DEVICES AND METHODS OF MANUFACTURING THE SAME as set forth in this United States Patent Application	
Check One	cexecuted concurrently herewith cexecuted on cerea	

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: Seung-Hun LEE	Signature: Sourily-/d-	Date: 2011, 08.22		
Name: Byeong-Chan LEE	Signature: Payeng Clary Lee	دد. الم ه , / بمر: Date		
Name: Sang-Bom KANG	Signature: Self3-1"	Date: >0/1. 09.22		
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.

**PATENT** 

**REEL: 026900 FRAME: 0281** RECORDED: 09/01/2011