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DMB No. 0651-0011 (exp. 4/94)		.Y	
To the Honorable Commissioner of Pat	iii 1035783	23 attached	original documents or copy thereof
I. Name of conveying party(ies):		2. Name and address of	receiving party(ies):
SEUNG-JUN LEE, WOONKYUNG LEE 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	
 Nature of conveyance: X Assignment Merge Security Agreement Change Other 	er of Name	Additional name(s) & ad	dress(es) attached? <u>No</u>
Execution Date: October 3, 2009			
 Application number(s) or patent number 	er(s):		
If this document is being filed together A. Patent Application No.(s)	with a new application, the exe	ecution date of the application B. Patent No.(s)	on is: October 3, 2009
	Additional number	ars attached? No	
Additional numbers. Name and address of party to whom correspondence concerning document should be mailed:		6. Total number of applications and patents involved: <u>One</u>	
Name: <u>Eugene M, Lee</u> Internal Address: <u>LEE & MORSE, P.</u> Street Address: <u>3141 Fairview Park I</u> City: <u>Falls Church</u> , State: <u>VA</u> ZIP: 2	Drive, Suite 500		
		7. Total fee (37 C.F.R.	3.41) \$40.00
		X Enclosed (PTO- X Authorized to be fees	2038) e charged to deposit account any additio
		8. Deposit account num	ber: <u>5-01645</u>
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 Statement and signature. To the best of my knowledge and belief, document. 	, the foregoing information is t	true and correct and any att	ached copy is a true copy of the origina
Susan S. Morse Name of Person Signing Attorney Docket No. 239/274	Signature	han 0	<u>ctober 16, 2009</u> Date
	including cover sheet, attach	ments, and document: 2 _p	ages attached, incl. cover
	uments to be recorded with ommissioner of Patents & T Alexandria	rademarks, Box Assignme VA, 22313	ents
		10/19/2009 S 05 FC:8021	ZEWDIE1 00000031 12588491 40.00 OP
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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	VERTICAL TYPE SEMICONDUCTOR DEVICE
	as set forth in this United States Patent Application

	executed concurrently herewith	
Check One	cxecuted on	
	Serial No Filed	

in and to said United States Patent Application including any and all divisions or continuations thereof and in and to an *i* and all Letters Patent of the United States which may issue on any such application or for said invention, including any and all ressues 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.

NA	MES AND SIGNATURES OF INVENTORS	
Name: Seung-Jun LEE	Signature: Samon Re	Date: 3 Oc- Pro
Name: Woonkyung LEE	Signature: Warn Lyung Lee	Date: 209/10/3
NA	MES AND SIGNATURES OF WITNESSES	
Name:	Signature:	Date:
Name:	Signature:	Date:

Note: Prina 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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