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To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.	
1. Name of conveying party(ies)/Execution Date(s):	2. Name and address of receiving party(ies)
Seong-Jun Song Chang-Ryong Heo	Name: Samsung Electronics Co., Ltd.
Chul-Jin Kim	Internal Address:
Jong-Rim Lee	
	Street Address: 416, Maetan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, 442-370 City: State: Country: Republic of Korea Zip: Additional name(s) & address(es) attached? Yes No document is being filed together with a new application. B. Patent No. (s)
A. Patent Application No.(s)	B. Patent No.(s)
125.89353	
Additional numbers attached? Yes No	
5. Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved:
Name: Docket Clerk	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00
Internal Address:	Authorized to be charged by credit card Authorized to be charged to deposit account
Street Address: P.O. Drawer 800889	Enclosed None required (government interest not affecting title)
City: Dallas	8. Payment Information
State: Texas Zip: 75380	a. Credit Card Last 4 Numbers Expiration Date
Phone Number: 972-628-3600	b. Deposit Account Number50-0208
Fax Number: 972-628-3616	
Email Address:	Authorized User Name William A. Munck
9. Signature:	October 22, 2009
Signature	Date
William A. Munck Name of Person Signing	Total number of pages including cover sheet, attachments, and documents: 3

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PATENT

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REEL: 023446 FRAME: 0463

<u>ASSIGNMENT</u>

WHEREAS, SAMSUNG ELECTRONICS CO., LTD, a corporation organized under the laws of the Republic of Korea, having a place of business at 416, Maetan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do 442-370, Republic of Korea (hereinafter referred to as "ASSIGNEE"), is desirous of acquiring my entire right, title and interest in and to the invention, and in and to the said application and any Letters Patent that may issue thereon;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the full and exclusive right, title and interest in and to said invention and in and to said application and all patents which may be granted therefor, and all divisions, reissues, substitutions, continuations, continuations-in-part and extensions thereof; We authorize William A. Munck or John T. Mockler of Munck Carter, LLP to insert in the parenthesis above the application number and filing date of said application when known; and we hereby authorize and request the Commissioner of Patents and Trademarks to issue all patents for said invention, or patents resulting therefrom, insofar as our interest is concerned, to the said ASSIGNEE of our entire right, title and interest.

We also hereby sell and assign to said ASSIGNEE, its successors, assigns and legal representatives the full and exclusive rights, title and interest to the invention disclosed in said application throughout the world, including the right to file applications and obtain patents, utility models, industrial models and designs for said invention in its own name throughout the world including all rights of priority, all rights to publish cautionary notices reserving ownership of said invention and all rights to register said invention in appropriate registries; and we further agree to execute any and all powers of attorney, applications, assignments, declarations, affidavits, and any other papers in connection therewith necessary to perfect such rights, title and interest in ASSIGNEE, its successors, assigns and legal representatives.

We hereby further agree that we will communicate to said ASSIGNEE, or to its successors, assigns and legal representatives, any facts known to us respecting any improvements; and, at the expense of said ASSIGNEE, to testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, continuation-in-part, reissue and substitute applications, and make all lawful oaths, and generally do everything possible to vest title in said

ASSIGNEE and to aid said ASSIGNEE, its successors, assigns and legal representatives to obtain and enforce proper protection for said invention in all countries.

Date: October 18, 2009

Seong-Jun Song Seong-Jun Song

Date: October 18, 2009

Chul-Jim Kim

Date: October 18, 2009

Jang Rim Lee
Jong-Rim Lee

Chul-Jin Kim

Date: October 18, Zov9

Chang-Ryong Heo
Chang-Ryong Heo