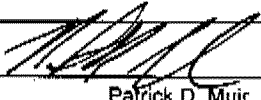


RECORDATION FORM COVER SHEET PATENTS ONLY				U.S. Department of Commerce Patent and Trademark Office Attorney Docket No. SAM-51104			
To the Director of the U.S. Patent and Trademark Office: Please record the attached original documents or copy thereof.				Mail Stop Assignment Recordation Services			
1. Name of conveying party(ies): 1. Jung, Bu-Il 2. Kim, So-Young			2. Name and address of receiving party: Name: Samsung Electronics Co., Ltd.				
Additional name(s) of conveying parties attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			Internal Address:				
3. Nature of conveyance:			Street Address:		129, Samsung-ro, Yeongtong-gu		
<input checked="" type="checkbox"/>	Assignment	<input type="checkbox"/>	Merger	City:		Suwon-si	
<input type="checkbox"/>	Security Agreement	<input type="checkbox"/>	Change of Name	State: Gyeonggi-do		Country: South Korea	Zip Code:
<input type="checkbox"/>	Joint Research Agreement	<input type="checkbox"/>	Government Interest Assignment	Additional name(s) & Address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
<input type="checkbox"/>	Executive Order 9494, Confirmatory License	<input type="checkbox"/>	Other:				
Execution Date(s):		1. 2013-03-14					
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:							
A. Patent Application Number:				B. Patent Number(s):			
13/631,162							
Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No							
5. Name and address of party to whom correspondence concerning document should be mailed:				6. Total number of applications and patents involved: 1			
Name:		Patrick D. Muir (tel): 703-757-7880 (fax): 703-757-7447 (e-mail): pto@muirpatentconsulting.com					
Internal Address:		Muir Patent Consulting, PLLC					
Street Address:		9913 Georgetown Pike, Suite 200, Box 1213					
City:		Great Falls					
State:		VA	Zip:		22066		
				7. Total fee (37 CFR 1.21(h) and 3.41): \$ 40.00 <input type="checkbox"/> Enclosed (Please charge deficiency or credit overpayment to deposit account 50-4574) <input checked="" type="checkbox"/> Authorized to be charged to deposit account <input type="checkbox"/> None required (government interest not affecting title)			
				8. Deposit Account No.: 50-4574			
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.							
Signed:						4-5-2013	
		Patrick D. Muir, Reg. No. 37403				Date	
Total number of pages including cover sheet, attachments and documents:						5	

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SAMSUNG ELECTRONICS CO., LTD.

I hereby state that I have reviewed and understand the contents of the above identified application, including the claims.

I acknowledge that I am aware of the duty to disclose information which is material to patentability as defined in 37 CFR § 1.56.

Section II. Assignment

In consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned, the undersigned hereby sell(s) and assign(s) to

Samsung Electronics Co., Ltd.

having an address at 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do 443-742, Republic of Korea (hereinafter designated as the Assignee), the entire (100%) right, title and interest for the United States as defined in 35 USC §100, in the invention described in the application identified in Section I of this document.

Assignor hereby confirms any prior assignment to Assignee, and to the extent that Assignor has not already done so, agrees to assign, and hereby does, sell, assign and transfer unto Assignee and its successors in interest, the full and exclusive right, title and interest in the United States of America and throughout the world, including the right to claim priority under the laws of the United States, the Paris Convention, and any foreign countries, to the inventions as described in the aforesaid application, to the aforesaid application itself, and all divisions, continuations, continuations-in-part, or other applications claiming priority directly or indirectly from the aforesaid application, and any United States or foreign Letters Patent, utility model, or other similar rights which may be granted thereon, including reissues, reexaminations and extensions thereof, and all copyright rights throughout the world in the aforesaid application and the subject matter disclosed therein, these rights, title and interest to be held and enjoyed by Assignee to the full end of the term for which the Letters Patent, utility model, or other similar rights, are granted and any extensions thereof as fully and entirely as the same would have been held by Assignor had this assignment and sale not been made, and the right to sue for, and recover for past infringements of, or liabilities for, any of the rights relating to any of the applications, patents, utility models, or other similar rights, resulting therefrom, and the copyright rights;

Assignor hereby covenants and agrees to execute all instruments or documents required or requested for the making and prosecution of any applications of any type for patent, utility model, or other similar rights, and for copyright, in the United States and in all foreign countries including, but not limited to, any provisional, continuation, continuation-in-part, divisional, renewal or substitute thereof, and as to letters patent any reissue, re-

SEC Ref No. ID-201203-575-1-US0 Attorney Ref No. SAM-51104

COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM
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LEGAL NAME OF SECOND INVENTOR/ASSIGNOR	Family Name	First Given Name	Second Given Name
	Kim	So-Young	
SIGNATURE <u>So-Young. Kim</u> DATE <u>Mar. 14, 2013</u>			

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