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To: Assignment Branch Page 2 of 3



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14085212060 From: Gregory Muir

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FORM PTO-1595		RECORDATION FORM COVER SHEET PATENTS ONLY		U.S. Department of Commerce Patent and Trademark Office	
SAM-101					
To the Assistant Commissioner for Patents. Please record the attached original documents or copy thereof.					
1. Name of conveying party(ies): Bang-Ku Kang			2. Name and Address of receiving party(ies): Name: SAMSUNG ELECTRONICS CO. LTD. Address: 416 Maetan-dong, Yeongtong-gu Suwon-si, Gyeonggi-do. REPUBLIC OF KOREA		
			Additional name(s) & address(es) attached? ☐ Yes ☒ No		
3. Nature of Conveyance: ☒ Assignment ☐ Merger ☐ Security Agreement ☐ Change of Name ☐ Other					
Execution Date: 04/30/2009					
4. Application number(s) or patent number(s): Execution date of the application: 04/30/2009 Title: FLASH MEMORY DEVICE, PROGRAMMING METHOD THEREOF AND MEMORY SYSTEM INCLUDING THE SAME Docket No: SAM-101					
A. Patent Application No.(s): 12/466,616			B. Patent No.(s)		
Additional numbers attached? ☐ Yes ☒ No			Additional numbers attached? ☐ Yes ☒ No		
5. Name and address of party to whom correspondence concerning this document should be mailed: Name: Muir Patent Consulting, PLLC Address: 758 Walker Rd., Suite C City: Great Falls State: VA Zip: 22066			6. Number of applications and patents involved: (1)		
			7. Amount of fee enclosed or authorized to be charged: \$40		
			8. Deposit Account No: 60-4874 (Attach duplicate copy if paying by deposit account)		
DO NOT USE THIS SPACE					
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. Date: May 19, 2009 Signature: [Signature] Reg. # 37403 Patrick Muir					
Total Number of Pages including Cover Sheet, Attachments and Document: 2					

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SAM-101

ASSIGNMENT

I, KANG, Sang-Gu ("Assignor"), have an interest in the invention entitled:

**FLASH MEMORY DEVICE, PROGRAMMING METHOD THEREOF AND
MEMORY SYSTEM INCLUDING THE SAME,**

which is the subject of a United States or International application for patent entitled above and naming the undersigned inventor

- ☐ in a Provisional Patent Application No. _____;
☐ in a Non-Provisional Application along with a Declaration signed today with this assignment;
☐ in a Non-Provisional Application where the Declaration was signed on _____;
☐ in a Non-Provisional Application filed on _____, and assigned Serial No. _____
 or PCT International Application No. _____;
☐ in U.S. Patent No. _____, issued _____.

Samsung Electronics Co. LTD., 416, Maetan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea, South Korea, ("Assignee"), is desirous of acquiring Assignor's interest in the invention.

Assignor acknowledges receipt and adequacy of good and valuable consideration in exchange for this Assignment, and assigns to Assignee and its successors in interest, the full and exclusive right, title and interest to any and all inventions, developments and improvements disclosed or described in the patent application listed above ("the invention"), in the United States of America and all foreign countries, including the right to claim priority under the laws of the United States, the Paris Convention, and any foreign countries, for the full term of the patent, including extensions of time, the same as if held by Assignor had this Assignment not been made. This Assignment includes the assignment of the right to recover for past infringements of, or liabilities for, any of the rights related to the invention.

Assignor covenants and agrees to cooperate with Assignee and execute all instruments or documents requested for the making and prosecution of any applications of any type for patent in the United States and in all foreign countries including, but not limited to the following: provisional, continuation, continuation-in-part, divisional, renewal or substitute, reissue, re-examination, or extension. Assignor covenants and agrees to cooperate with Assignee in any litigation regarding the invention, patents or applications regarding the invention, and render all necessary assistance deemed essential to ASSIGNEE's full protection and title in and to the invention hereby transferred without further or other compensation than that provided in this Assignment; the undersigned agree that the attorneys of record in said application shall hereafter act on behalf of said ASSIGNEE.

Assignor covenants that no assignment, sale or agreement or encumbrance has been or will be entered into which would conflict with this Assignment.

Assignor requests the Commissioner of Patents and Trademarks to issue said Letters Patent of the United States of America to Assignee, and requests that any official of any country or countries foreign to the United States, whose duty it is to issue or grant patents and applications, issue said Letters Patent, Utility Model Registration or Inventor's Certificate to Assignee.

Assignor hereby grants the firm of MUIR PATENT CONSULTING, PLLC the power to insert on this assignment any further identification that may be necessary or desirable in order to comply with the rules of any issuing authority, including the United States Patent and Trademark Office, for recordation of this document.

Sang Gu Kang (signature)
Assignor: KANG, Sang-Gu

On this 20 day of April, 2009.

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PAGE 3/3 * RCVD AT 5/19/2009 1:16:24 PM (Eastern Daylight Time) * SVR:USPTO-EFAXF-8/7 * DNIS:2738177 * CSID:14085212080 * DURATION (mm-ss):03-10

PAGE 3/3 * RCVD AT 5/21/2009 11:29:50 AM (Eastern Daylight Time) * SVR:USPTO-EFAXF-6/27 * DNIS:2738300 * CSID:7036841409 * DURATION (mm-ss):00-46

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PATENT
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