

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
Name		Execution Date
Jin-kyu KIM		05/22/2007
Kyoung-il BANG		05/22/2007
RECEIVING PARTY DATA		
Name:	Samsung Electronics Co., LTD.	
Street Address:	416, Maetan-dong, Yeongtong-gu	
City:	Suwon-si, Gyeonggi-do	
State/Country:	KOREA, REPUBLIC OF	
PROPERTY NUMBERS Total: 1		
Property Type	Number	
Application Number:	11754563	
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Total Attachments: 1 source=ASSIGN#page1.tif		

CH \$40.00 11754563

Assignment

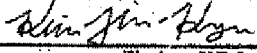
Whereas, We, Jin-kyu KIM and Kyoung-il BANG of Seoul, Republic of Korea and Suwon-si, Republic of Korea, respectively, hereinafter called assignors, have invented certain improvements in MAPPING APPARATUS AND METHOD FOR NON-VOLATILE MEMORY SUPPORTING DIFFERENT CELL TYPES and executed an application for Letters Patent of the United States of America therefor on May 22, 2007; and

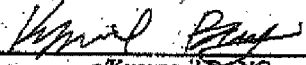
Whereas, SAMSUNG ELECTRONICS CO., LTD., 416, Maetan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea (assignee), desires to acquire the entire right, title, and interest in the application and invention, and to any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

We, the above named assignors, hereby sell, assign and transfer to the above named assignee, its successors and assigns, the entire right, title and interest in the application and the invention disclosed therein for the United States of America, including the right to claim priority under 35 U.S.C. §119, and we request the Director of the U.S. Patent and Trademark Office to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and we will execute without further consideration all papers deemed necessary by the assignee in connection with the United States application when called upon to do so by the assignee.

We hereby authorize and request our attorneys SUGHRUE MION, PLLC of 2100 Pennsylvania Avenue, NW, Washington, DC 20037-3213 to insert here in parentheses (Application number _____ and Confirmation number _____, filed _____) the application number, the confirmation number and filing date of said application when known.

Date:  May 22, 2007
s/Jin-kyu KIM

Date:  May 22, 2007
s/Kyoung-il BANG

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. §261)