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U.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office

To the Director of the U.S. Patent and Trademark Office: Please record the attached original documents or copy thereof.

1-30-07

1. Name of conveying party(ies): Dong-kun SHIN Shea-yun LEE Jang-hwan KIM Dong-hyun SONG Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies): SAMSUNG ELECTRONICS CO., LTD. 416, Maetan-dong, Yeongtong-gu Suwon-si, Gyeonggi-do Republic of Korea

3. Nature of conveyance: Assignment Merger Security Agreement Change of Name Other Execution Date: January 8, 2007

Additional name(s) & address(es) attached? Yes No

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 is: A. Patent Application No.(s) 11/601,819

B. Patent No.(s) Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed: SUGHRUE MION, PLLC WASHINGTON OFFICE 23373 CUSTOMER NUMBER

6. Total number of applications and patents involved: 1 7. Total fee (37 CFR 3.41): \$40.00 Enclosed. Authorized to be charged to Deposit Account No. 19-4880. The USPTO is directed and authorized to charge all required fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any overpayments to said Deposit Account. 8. Deposit Account Number: 19-4880 (Attach duplicate copy of this page if paying by deposit account)

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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. Peter A. McKenna Reg. No. 38,551 January 30, 2007 Date

Total number of pages including cover sheet, attachments, and documents: 2 Mail documents to be recorded with required cover sheet information to: MAIL STOP ASSIGNMENT RECORDATION SERVICES Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450

02/01/2007 DBYRNE 0000063 11601819 40.00 DP 01 FC:8021

Assignment

Whereas, we, Dong-kun SHIN of Seoul, Republic of Korea, Shea-yun LEE of Seoul, Republic of Korea, Jang-hwan KIM of Suwon-si, Republic of Korea and Dong-hyun SONG of Yongin-si, Republic of Korea, hereinafter called assignors, have invented certain improvements in STORAGE APPARATUS USING NON-VOLATILE MEMORY AS CACHE AND METHOD OF MANAGING THE SAME and executed an application for Letters Patent of the United States of America therefor on January 8, 2007; and

Whereas, SAMSUNG ELECTRONICS CO., LTD., of 416, Maetan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea, hereinafter called 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 11/601,819 and Confirmation number 6982, filed Nov. 20, 2006) the application number, confirmation number and filing date of said application when known.

Date:	<input checked="" type="checkbox"/>	<u>Dongkun Shin</u>	January 8, 2007
		s/Dong-kun SHIN	
Date:	<input checked="" type="checkbox"/>	<u>Shea-yun Lee</u>	January 8, 2007
		s/Shea-yun LEE	
Date:	<input checked="" type="checkbox"/>	<u>Kim Janghwan</u>	January 8, 2007
		s/Jang-hwan KIM	
Date:	<input checked="" type="checkbox"/>	<u>Song Donghyun</u>	January 8, 2007
		s/Dong-hyun SONG	

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