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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)

SungChang Lee
Brian D. Strom
Shuyu Zhang
George Tyndall

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance/Execution Date(s):

Execution Date(s) 10/06/2006

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Joint Research Agreement
☐ Government Interest Assignment
☐ Executive Order 9424, Confirmatory License
☐ Other _____

2. Name and address of receiving party(ies)

Name: SAMSUNG ELECTRONICS CO., LTD.

Internal Address: _____

Street Address: 416 Maetan-Dong, Paldal-Gu

City: Suwon City, Kyungki-Do

State: _____

Country: Republic of Korea Zip: _____

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

4. Application or patent number(s):

A. Patent Application No.(s)

☒ This document is being filed together with a new application.

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address to whom correspondence concerning document should be mailed:

Name: GREGORY SCOTT SMITH

GSS LAW GROUP

Internal Address: _____

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State: CA Zip: 94560

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6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00

- ☒ Authorized to be charged by credit card
☐ Authorized to be charged to deposit account
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10/25/06

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3

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PATENT
REEL: 018466 FRAME: 0924

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
ASSIGNMENT OF PATENT**

WHEREAS, SungChang Lee, a Korean citizen, Brian D. Strom a United States citizen, Shuyu Zhang, a United States citizen, and George Tyndall, a United States citizen have invented certain new and useful improvements in a METHOD AND APPARATUS FOR IMPROVED STARTING AND/OR STOPPING IN A CONTACT START-STOP (CSS) HARD DISK DRIVE for which an application for a United States Patent was:

Filed on: 10/25/06

Whereas, SAMSUNG ELECTRONICS CO., LTD., a corporation of the country of Korea, with principle business address at 416 Maetan-Dong, Paldal-Gu, Suwon City, Kyungki-Do, Republic of Korea, is desirous of acquiring the entire right, title, and interest in and to said invention and in and to the United States Letters Patent thereon, when granted, and in and to any and all improvements thereon;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN:

BE IT KNOWN that for good and valuable consideration, the receipt of which is hereby acknowledged, we, the said SungChang Lee, Brian D. Strom, Shuyu Zhang, George Tyndall, and , by these presents do sell, assign, and transfer unto said SAMSUNG ELECTRONICS CO., LTD., our entire right title and interest in and to any and all Letters Patent for the whole of the United States and each and every foreign country to be obtained therefore on said application or any continuation, division, renewal, substitute, or reissue thereof, and in and to any and all improvements thereon.

THE SAME TO BE HELD and enjoyed by SAMSUNG ELECTRONICS CO., LTD., it's successors and assigns, for their own use, to the full term for which the said Letters Patent may or shall be granted, as fully and entirely as the same might or could have been enjoyed by us had this Assignment and sale not been made.

AND WE HEREBY AUTHORIZE and request the commissioner of Patents and Trademarks to issue said United States Letters Patent on our said invention, when granted, unto our said Assignee, SAMSUNG ELECTRONICS CO., LTD., in accordance with this assignment.

Executed this 6th day of October, 2006, at San Jose, CA.

SungChang Lee

SungChang Lee

Executed this 6th day of October, 2006, at San Jose, CA.

Brian D. Strom

Brian D. Strom

Executed this 6 day of Oct., 2006, at San Jose.

Shuyu Zhang

Shuyu Zhang

Executed this 6th day of Oct., 2006, at San Jose.

George Tyndall

George Tyndall