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PATENTS ONLY

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)

Young-Hoon Kim
Sang-Hoon Chu
Dong-Jun Lee
Hyung Jai LeeAdditional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

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

Execution Date(s) 10/08/06; 10/09/06; 10/04/06; 10/04/06

- ☒ 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

State: Kyungki-Do

Country: Korea Zip: _____

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

4. Application or patent number(s):

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

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: Ben J. Yorks

Internal Address: _____

Street Address: 840 Newport Center Drive, Suite 400

City: Newport Beach

State: California Zip: 92660

Phone Number: (949) 760-0991

Fax Number: (949) 760-5200

Email Address: byorks@irell.com

6. Total number of applications and patents involved: _____

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
☐ Enclosed
☐ None required (government interest not affecting title)

8. Payment Information

a. Credit Card Last 4 Numbers _____

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b. Deposit Account Number 09-0946

Authorized User Name Ben J. Yorks

9. Signature: Ben J. Yorks

Signature

October 12, 2006

Date

Ben J. Yorks

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents: _____

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450112919 U.S. PTO
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ASSIGNMENT

(For Execution Prior To Filing Patent Application)

In consideration of good and valuable consideration, the receipt of which is hereby acknowledged, we, the undersigned:

Young-Hoon Kim, Sang-Hoon Chu, Dong-Jun Lee, and and Hyung Jai Lee

hereby sell, assign, and transfer to:

Samsung Electronics Co., Ltd.

a Delaware Corporation, having a principal place of business at 416 Maetan-Dong, Paldal-Gu, Suwon City, Kyungki-Do, Korea ("Assignee"), and its successors, assigns, and legal representatives, the entire right, title, and interest for the United States and all foreign countries, in and to any and all inventions and improvements that are disclosed in the application for the United States patent that has been executed by the undersigned prior hereto or concurrently herewith on the dates indicated below and is entitled:

ONLINE IDENTIFICATION OF SECONDARY ACTUATOR TRANSFER FUNCTION VIA SYSTEM DECOUPLING IN MULTIPLE-STAGE ACTUATOR SERVO SYSTEMS IN DISK DRIVES

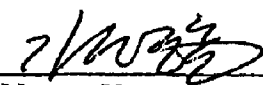
and in and to said application and all divisional, continuing, continuation-in-part, substitute, renewal, reissue, and all other patent applications that have been or shall be filed in the United States and all foreign countries on any of said inventions and improvements; and in and to all original and reissued patents that have been or shall be issued in the United States and all foreign countries on said inventions and improvements; and in and to all rights of priority resulting from the filing of said United States application, and in all subsequent PCT and foreign applications claiming priority to the United States application;

agree that said Assignee may apply for and receive a patent or patents for said inventions and improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns, and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all divisional, continuing, continuation-in-part, substitute, renewal, reissue, and all other patent applications on any and all said inventions and improvements; execute all rightful oaths, assignments, powers of attorney, and other papers; communicate to said Assignee, its successors, assigns, and representatives all facts known to the undersigned relating to said inventions and improvements and the history thereof; and generally assist said Assignee, its successors, assigns, or representatives in securing and maintaining proper patent protection for said inventions and improvements and for vesting title to said inventions and improvements, and all applications for patents and all patents on said improvements, in said Assignee, its successors, assigns, and legal representatives; and covenant with said Assignee, its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been

made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Each Inventor: Please Sign and Date Below:

Each inventor: Please also
list the date that you signed
the accompanying DECLARATION
& POWER OF ATTORNEY

<u>10/8/2006</u> Date	<u></u> Name: Young-Hoon Kim	<u>10/8/2006</u> Date
 Date	 Name: Sang-Hoon Chu	 Date
 Date	 Name: Dong-Jun Lee	 Date
 Date	 Name: Hyung Jai Lee	 Date

Assignment Document Return Address:
Irell & Manella LLP
840 Newport Center Drive, Suite 400
Newport Beach, CA 92660
Telephone: 949-760-0991

Attorney's Docket No.: 155634-0206(P175)

made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Each Inventor: Please Sign and Date Below:

Each Inventor: Please also
list the date that you signed
the accompanying **DECLARATION
& POWER OF ATTORNEY**

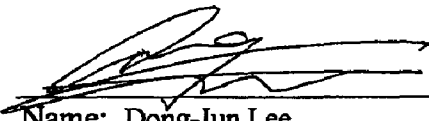

Date	Name: Young-Hoon Kim	Date
10/9/2006	秋 相 勤	10/9/2006
Date	Name: Sang-Hoon Chu	Date
Date	Name: Dong-Jun Lee	Date
Date	Name: Hyung Jai Lee	Date

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Irell & Manella LLP
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Each inventor: Please also
list the date that you signed
the accompanying DECLARATION
& POWER OF ATTORNEY

Each Inventor: Please Sign and Date Below:

Date	Name: Young-Hoon Kim	Date
Date	Name: Sang-Hoon Chu	Date
10/4/06	 Name: Dong-Jun Lee	10/4/06
10-4-06	 Name: Hyung Jai Lee	10-4-06

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