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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

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1. Name of conveying party(ies):

- (1) Yong-chul Yoo
(2) Seong-sik Hwang

2. Name and Address of receiving party(ies):

SAMSUNG ELECTRONICS CO., LTD.
416, Maetan-dong, Paldal-gu
Suwon City, Kyungki-do
Republic of Korea

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other: _____

Execution Date(s): (1) 11/3/03; (2) 11/03/03

4. Application number(s) or patent number(s):

☒ This document is being filed together with a new application:(a) The execution date(s) of the application is/are: November 12, 2003(b) The title is: HARD DISK BALANCING APPARATUS AND METHOD FOR HARD DISK DRIVE
OR☐ This document is being filed after filing of the application:

(a) Patent Application No(s). _____, filed _____; or

(b) Patent No(s). _____, issued _____

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

STAAS & HALSEY LLP

Our Docket: 1793.1024Attention: Michael D. Stein

1201 New York Ave., N.W., Suite 700

Washington, D.C. 20005

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41)..... (\$ 40.00 per Assignment)


- ☒ Enclosed
☐ Authorized to be charged to deposit account.

8. Deposit Account No.: 19-3935 (Any underpayment is authorized to be charged to this Deposit Account)
(Attach duplicate copy of this page if paying by deposit account)

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.

Michael D. Stein, Reg. No. 37,240
Name of Person Signing


Signature

November 12, 2003
Date

Total number of pages including cover sheet: 1

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U.S. ASSIGNMENT

S&H 100

IN CONSIDERATION of the sum of One Dollar (\$1.00), and of other good and valuable consideration paid to the undersigned inventor(s) (hereinafter, "ASSIGNOR") by
(Insert Name(s) & Address(es) of ASSIGNEE(S))

SAMSUNG ELECTRONICS CO., LTD.

416 Maetan-dong, Paldal-gu, Suwon-city, Kyungki-do, Republic of Korea

(hereinafter, "ASSIGNEE"), the receipt of which is hereby acknowledged, the undersigned ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest to the invention entitled
(Title of Invention)

HARD DISK BALANCING APPARATUS AND METHOD FOR HARD DISK DRIVE

relating to International Patent Application PCT/ / and/or for which application for Letters Patent of the United States was executed on even date herewith or, if not so executed, was:

(a) executed on 3 November 2003; (Insert date of execution of application, if not concurrent)

(b) filed on _____

Serial No. _____/_____

Any registered attorney of STAAS & HALSEY LLP, 700 Eleventh Street, N.W., Washington, D.C. 20001 (202/434-1500) is hereby authorized to insert in (b) the specified data, when known.

and to said application and all Letters Patent(s) of the United States granted on said application and any continuation, division, renewal, substitute, reissue or reexamination application based thereon, for the full term or terms for which the said Letters Patent(s) may be granted and including any extensions thereof (collectively, hereinafter, "said application(s) and Letters Patent(s)").

The ASSIGNOR agree(s), when requested by said ASSIGNEE and without charge to but at the expense of said ASSIGNEE, to do all acts which the ASSIGNEE may deem necessary, desirable or expedient, for securing, maintaining and enforcing protection for said invention, including in the preparation and prosecution of said application(s) and the issuance of said Letters Patent(s), in any interference, reissue, reexamination, or public use proceeding, and in any litigation or other legal proceeding which may arise or be declared in relation to same, such acts to include but not be limited to executing all papers, including separate assignments and declarations, taking all rightful oaths, providing sworn testimony, and obtaining and producing evidence.

IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s).

(Typed Name & Signature of Inventor(s))

(Date)

(Typed Name & Signature of Witness(es))

1) <u>Yong-chul Yoo</u>	<u>3 November 2003</u>	
2) <u>Seong-sik Hwang</u>	<u>3 November 2003</u>	
3) _____	_____	_____
4) _____	_____	_____
5) _____	_____	_____

RECORDED: 11/12/2003

PATENT
REEL: 014700 FRAME: 0142