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03914 U.S. PTO
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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies): 2. Name and address of receiving party(ies):

Shanlin Duan
Yan Liu
Li Tang

Name: Hitachi Global Storage Technologies
Netherlands B.V.

8.1-03

Street Address:
Locatellikade 1
1076 AZ Amsterdam
P.O. Box 75215
1070 AE Amsterdam
The Netherlands

Additional name(s) of conveying
party(ies) attached __Yes XX No

Additional name(s) & address(es) attached?
__Yes XX No

3. Nature of conveyance:

XX Assignment Execution Date: July 31, 2003

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

10632768

If this document is being filed together with a new application, the execution date of the application is: July 31, 2003

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? __Yes XX No

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

6. Total Number of applications and patents
involved: **One**

Name: Hitachi Global Storage Technologies
Internal
Address: **Intellectual Property Law**
Street
Address: Locatellikade 1, 1076 AX Amsterdam, P.O. Box 75215,
1070 AE Amsterdam, The Netherlands

7. Total fee (37 CFR 3.41).....\$ **40.00**
Enclosed

XX Authorized to be charged to
deposit account

8. Deposit Account Number: 50-2587

08/14/2003 6TON11 00000090 502587 10632768

01 FC:8021 40.00 DA

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.

Date

Lewis L. Nunnelley

Total number of pages including cover sheet, attachments, and document: 24

PATENT
REEL: 014377 FRAME: 0326

INVENTOR
AND CITY

Whereas, we

(1) Shanlin Duan
County of Alameda
(2) Yan Liu
County of Santa Clara
(3) Li Tang
County of Alameda

of Fremont,
and State of California
of Cupertino
and State of California
of Fremont
and State of California

have invented certain improvements in

TITLE

METHOD OF DETECTING POLARITY REVERSAL IN A MAGNETORESISTIVE SENSOR

DATES THAT
INVENTORS
SIGNED THE

and executed, respectively, a United States patent application therefor on

(1) 7/31/03 (2) 7/31/03 7/31/03

Whereas, HITACHI GLOBAL STORAGE TECHNOLOGIES, a corporation of The Netherlands B. V. , having a place of business at Netherlands B.V., (hereinafter called HITACHI), desires to acquire the entire right, title and interest in the said application and invention, and to any United States and foreign patents to be obtained therefor;

Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, we, the above named, hereby sell, assign, and transfer to HITACHI, its successors and assigns, the entire right, title and interest in the said application and invention therein disclosed for the United States and foreign countries, and all rights of priority resulting from the filing of said United States application, and we request the Commissioner of Patents to issue any Letters Patent granted upon the inventions set forth in said application to HITACHI, its successors and assigns; and we hereby agree that HITACHI may apply for foreign Letters Patent on said invention and we will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by HITACHI.

Signed and sealed

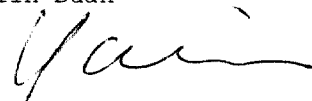
CITY
DATE

(1) at San Jose
on 7/31/03, 2003


Shanlin Duan SIGNATURE
INVENTOR

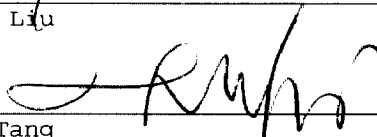
CITY
DATE

(2) at San Jose
on 7/31/03, 2003


Yan Liu SIGNATURE
INVENTOR

CITY
DATE

(2) at San Jose
on 7/31/03, 2003


Li Tang SIGNATURE
INVENTOR