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U.S. DEPARTMENT OF COMMERCE
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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):

Manfred Albrecht
Olav Hellwig
Guohan Hu
Bruce David Terris

12-03-03

2. Name and address of receiving party(ies)

Name: HITACHI GLOBAL STORAGE TECHNOLOGIES
NETHERLANDS B.V.

Internal Address: _____

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

3. Nature of conveyance:

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

Street Address:

Locatellikade 1
Parnassustoren
1076 AZ Amsterdam
The Netherlands

City: _____ State: _____ Zip: _____

Execution Date: 11/20/03

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: 11/20/03

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name:

HITACHI GLOBAL STORAGE TECHNOLOGIES

Internal Address:

Intellectual Property Law
Mail Stop NHGB/0142

Street Address: 5600 Cottle Road

City: San Jose State: CA Zip: 95193

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41).....\$ 40

☐ Enclosed☒ Authorized to be charged to deposit account

8. Deposit account number:

502587

(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.

Thomas R. Berthold

Name of Person Signing

Thomas R. Berthold

Signature

11/20/03

Date

Total number of pages including cover sheet, attachments, and documents: 3

Mail documents to be recorded with required cover sheet information to:
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Washington, D.C. 20231

12/12/2003 ECOOPER 00000131 502587 10727812

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PATENT
REEL: 014773 FRAME: 0706

ASSIGNMENT

Whereas, /I/we,

- | | |
|---|---|
| <p>(1) Manfred Albrecht
City of Isny-Rohrdorf</p> <p>County of</p> <p>State of Germany</p> | <p>(2) Olav Hellwig
City of Berlin</p> <p>County of</p> <p>State of Germany</p> |
| <p>(3) Guohan Hu
City of San Jose</p> <p>County of Santa Clara</p> <p>State of CA</p> | <p>(4) Bruce David Terris
City of Sunnyvale</p> <p>County of Santa Clara</p> <p>State of CA</p> |
| <p>(5)</p> <p>City of</p> <p>County of</p> <p>State of</p> | <p>(6)</p> <p>City of</p> <p>County of</p> <p>State of</p> |

have invented certain improvements in:

METHOD FOR MAGNETIC RECORDING ON PATTERNED MULTILEVEL PERPENDICULAR MEDIA USING VARIABLE WRITE CURRENT

and executed a Declaration and Power of Attorney for a United States patent application therefor on

(1) 11/13/03 (2) 11/13/2003 (3) 11/20/2003
 (4) 11/20/03 (5) _____ (6) _____

Whereas, HITACHI GLOBAL STORAGE TECHNOLOGIES NETHERLANDS B.V., having a place of business at Locatellikade 1, Parnassustoren, 1076 AZ Amsterdam, The Netherlands (hereafter 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.

(1) Inventor: **Manfred Albrecht**City/State: Konstanz / GermanySignature Manfred AlbrechtDate 11/13/03(2) Inventor: **Olav Hellwig**City/State: Konstanz / GermanySignature Olav HellwigDate 11/13/2003(3) Inventor: **Guohan Hu**City/State: San Jose, CASignature Hu GuohanDate 11/20/2003(4) Inventor: **Bruce David Terris**City/State: San Jose, CASignature Bruce D. TerrisDate 11/24/03

(5) Inventor:

City/State:

Signature _____

Date _____

(6) Inventor:

City/State:

Signature _____

Date _____