

02-27-2003



2-24-03

102375368

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

1. Name of conveying party(ies):

Sining MAO (Jan. 28, 2003)
Songsheng XUE (Feb. 4, 2003)
William VAVRA (Jan. 28, 2003)
William O'KANE (Feb. 4, 2003)
James PRICE (Feb. 11 2003)
Patrick RYAN (Feb. 11, 2003)

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

Seagate Technology LLC
920 Disc Drive
Scotts Valley, CA
95067

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

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

3. Nature of conveyance:

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

Execution Date: See Above

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:

A. Patent Application No.(s)

10/314458

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: Brian H. Batzli
Address: Merchant & Gould P.C.
P.O. Box 2903
Minneapolis, MN 55402-0903



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

☒ Enclosed
☐ Authorized to be charged to deposit account

8. Please charge any additional fees or credit any overpayments to our Deposit account number: 13-2725

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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.

Brian H. Batzli (32,960)

Name of Person Signing

2 W 31
Signature

February 18, 2003

Date

Total number of pages including cover sheet, attachments, and document: 9

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Director - U.S. Patent and Trademark Office
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02/26/2003 DBYRNE 00000092 10314458

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ASSIGNMENT

WHEREAS, we, Sining Mao, residing at 13927 Aquila Avenue, Savage, Minnesota 55378; SongSheng Xue residing at ~~1447 Anderson Lake Parkway, #270, Eden Prairie, Minnesota 55344~~ ^{7320 Gallagher Drive #204, Edina}; William Vavra, residing at ~~2636 Geggen Tina Road, Maple Plain, Minnesota 55359~~ ^{85435 St}; William Jude O'Kane, residing at 28 Ringsend Road, Limavady, Co Derry, Northern Ireland BT 49 0QJ; James Keith Price, residing at 190 Birch Bluff Road, Tonka Bay, Minnesota 55331, and Patrick Joseph Ryan, residing at 1249 Scheffer Avenue, St. Paul, Minnesota 55116 are the inventors of an invention entitled STRUCTURE TO ACHIEVE THERMALLY STABLE HIGH SENSITIVITY AND LINEAR RANGE IN BRIDGE GMR SENSOR USING SAF MAGNETIC ALIGNMENTS that is the subject matter of

☒ a provisional application for Letters Patent which is identifiable in the United States Patent and Trademark Office by Serial No. 60/339,071, filed December 7, 2001;

☒ an application for Letters Patent, the application having been executed on even date herewith.

WHEREAS, Seagate Technology LLC, a limited liability company organized and existing under and by virtue of the laws of the State of Delaware and the United States of America, and having offices at 920 Disc Drive, Scotts Valley, California 95067 (hereinafter "Assignee"), is desirous of acquiring the entire right, title and interest in and to the invention, the applications, and any and all Letters Patent or similar foreign or domestic legal protection;

NOW THEREFORE, for good and valuable consideration, the receipt and adequacy of which is hereby acknowledged, we transfer to Assignee, its successors and assigns, our entire right, title and interest in and to the invention, the above-identified applications, all provisional applications from which any of the above-identified applications claim priority, corresponding domestic and foreign applications, any continuation, division, renewal, or substitute for the applications, all Letters Patent, any reissue, re-examination, or similar legal protection issuing related to the Letters Patent, and all rights and benefits under any applicable treaty or convention; and we authorize the Director of the United States Patent and Trademark Office or foreign equivalent to issue the Letters Patent or similar legal protection to the Assignee.

We authorize the Assignee, its successors and assigns, to insert in this instrument the filing date(s) and serial numbers of the application when ascertained. We further authorize the

Assignee, its successors and assigns, or anyone it may properly designate, to apply for Letters Patent or similar legal protection, in its own name if desired, in any and all foreign countries and appoint Assignee the common representative in the above-identified international application and any international application for the invention.

We represent to the Assignee, its successors and assigns, that we have not and shall not execute any writing or do any act whatsoever conflicting with this Assignment. We and our executors or administrators will at any time upon request, without additional consideration, but at the expense of the Assignee, its successors and assigns, execute and deliver to Assignee or its legal representatives such additional writings and do such additional acts as the Assignee, its successors and assigns, may deem desirable to perfect its enjoyment of this grant, and render all assistance in making application for and obtaining, maintaining, and enforcing the letters Patent or similar legal protection on the invention in any and all countries, including without limitation providing testimony in any related interference litigation or proceeding.

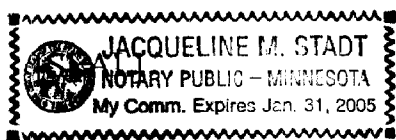
IN TESTIMONY WHEREOF, I have hereunto set my hand this 28th day of

Jan, 2003

Sining Mao
Sining Mao

STATE OF Minnesota
COUNTY OF Hennepin)ss:


On this 28th day of Jan, 2003, before me personally appeared
Sining Mao to me known to be the person described in, and who executed the
foregoing instrument, and acknowledged to me that he/she executed the same for the uses and
purposes therein set forth.



Jacqueline M. Stadt
Notary Public

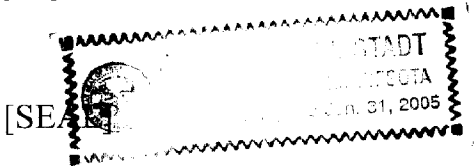
IN TESTIMONY WHEREOF, I have hereunto set my hand this 4 day of

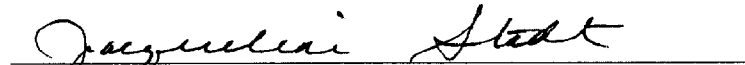
Feb., 2002.

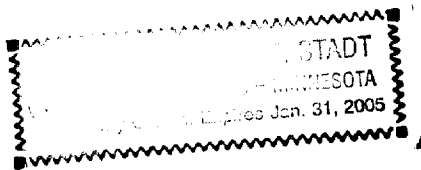

SongSheng Xue

STATE OF Minnesota)
COUNTY OF Hennepin)ss:

On this 4 day of Feb., 2002³, before me personally appeared SongSheng Xue to me known to be the person described in, and who executed the foregoing instrument, and acknowledged to me that he/she executed the same for the uses and purposes therein set forth.




Notary Public



IN TESTIMONY WHEREOF, I have hereunto set my hand this 28 day of

JAN, 2007.³ wv

William Vavra

William Vavra

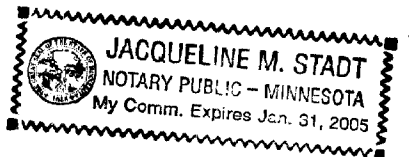
STATE OF Minnesota)

COUNTY OF Hennepin) ss:

On this 28th day of Jan, 2007, before me personally appeared
William Vavra to me known to be the person described in, and who executed the
foregoing instrument, and acknowledged to me that he/she executed the same for the uses and
purposes therein set forth.

[SEAL]

Jacqueline M. Stadt
Notary Public



IN TESTIMONY WHEREOF, I have hereunto set my hand this 4th day of

February, 2003.

WJK

William Jude O'Kane

William Jude O'Kane

STATE OF Minnesota)

)ss:

COUNTY OF Hennepin)

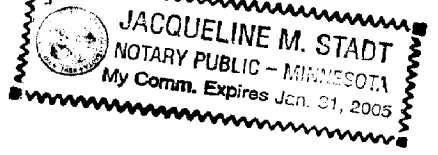
On this 4 day of Feb, 2003, before me personally appeared

William O'Kane to me known to be the person described in, and who executed the foregoing instrument, and acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

Jacqueline M. Stadt

Notary Public

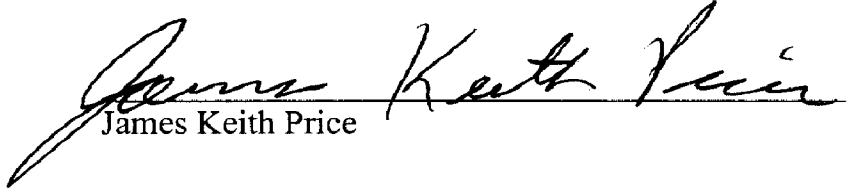
[SEAL]



IN TESTIMONY WHEREOF, I have hereunto set my hand this 11 day of

Feb., 2003.

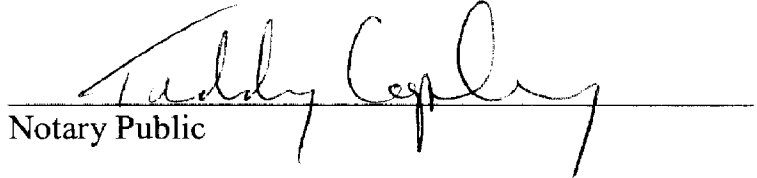
STATE OF MINNESOTA)
)ss:
COUNTY OF HENNEPIN)



James Keith Price

On this 11th day of FEB., 2003, before me personally appeared

JAMES PRICE to me known to be the person described in, and who executed the foregoing instrument, and acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

[SEAL]


Notary Public

TEDDY GOPLER
NOTARY PUBLIC - MINNESOTA
My Commission Expires Jan. 31, 2004

IN TESTIMONY WHEREOF, I have hereunto set my hand this 11 day of

February 2003 *pjr*

Patrick Joseph Ryan
Patrick Joseph Ryan

STATE OF MINNESOTA)
COUNTY OF HENNEPIN) ss:

On this 11th day of FEB., 2003, before me personally appeared
Patrick Ryan to me known to be the person described in, and who executed the
foregoing instrument, and acknowledged to me that he/she executed the same for the uses and
purposes therein set forth.

[SEAL]

Teddy C. [Signature]
Notary Public

