

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

| SUBMISSION TYPE: | NEW ASSIGNMENT | | | | | | | | | | | | |
|--|------------------------|---------------|------------------------|------------------------|----------------|--------------|---------------|-----------------------|------------|---------------------|------------|-----------|------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT | | | | | | | | | | | | |
| CONVEYING PARTY DATA | | | | | | | | | | | | | |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>Zhe Shen</td> <td>07/11/2011</td> </tr> <tr> <td>Huaqing Yin</td> <td>07/11/2011</td> </tr> <tr> <td>Jianhua Xue</td> <td>07/11/2011</td> </tr> <tr> <td>Mark Gubbins</td> <td>07/13/2011</td> </tr> <tr> <td>Alex Wong</td> <td>07/13/2011</td> </tr> </tbody> </table> | | Name | Execution Date | Zhe Shen | 07/11/2011 | Huaqing Yin | 07/11/2011 | Jianhua Xue | 07/11/2011 | Mark Gubbins | 07/13/2011 | Alex Wong | 07/13/2011 |
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| Mark Gubbins | 07/13/2011 | | | | | | | | | | | | |
| Alex Wong | 07/13/2011 | | | | | | | | | | | | |
| RECEIVING PARTY DATA | | | | | | | | | | | | | |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Name:</td> <td>Seagate Technology LLC</td> </tr> <tr> <td>Street Address:</td> <td>920 Disc Drive</td> </tr> <tr> <td>City:</td> <td>Scotts Valley</td> </tr> <tr> <td>State/Country:</td> <td>CALIFORNIA</td> </tr> <tr> <td>Postal Code:</td> <td>95066</td> </tr> </table> | | Name: | Seagate Technology LLC | Street Address: | 920 Disc Drive | City: | Scotts Valley | State/Country: | CALIFORNIA | Postal Code: | 95066 | | |
| Name: | Seagate Technology LLC | | | | | | | | | | | | |
| Street Address: | 920 Disc Drive | | | | | | | | | | | | |
| City: | Scotts Valley | | | | | | | | | | | | |
| State/Country: | CALIFORNIA | | | | | | | | | | | | |
| Postal Code: | 95066 | | | | | | | | | | | | |
| PROPERTY NUMBERS Total: 1 | | | | | | | | | | | | | |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Property Type</th> <th style="width: 70%;">Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13173854</td> </tr> </tbody> </table> | | Property Type | Number | Application Number: | 13173854 | | | | | | | | |
| Property Type | Number | | | | | | | | | | | | |
| Application Number: | 13173854 | | | | | | | | | | | | |
| CORRESPONDENCE DATA | | | | | | | | | | | | | |
| <p>Fax Number: (952)402-8187 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 952-402-8035 Email: melissa.zarns@seagate.com Correspondent Name: SEAGATE TECHNOLOGY LLC Address Line 1: INTELLECTUAL PROPERTY DEPT./ MAIL STOP N Address Line 2: 7801 COMPUTER AVENUE SOUTH Address Line 4: BLOOMINGTON, MINNESOTA 55435</p> | | | | | | | | | | | | | |
| ATTORNEY DOCKET NUMBER: | STL16685 | | | | | | | | | | | | |
| NAME OF SUBMITTER: | Melissa Zarns | | | | | | | | | | | | |

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PATENT
 REEL: 026740 FRAME: 0201

Total Attachments: 6

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**RECORDATION FORM COVER SHEET
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)

Zhe Shen
Huaqing Yin
Jianhua Xue
Mark Gubbins
Alex Wong

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

2. Name and address of receiving party(ies)

Name: Seagate Technology LLC

Internal Address: _____

Street Address: 920 Disc Drive

City: Scotts Valley

State: California

Country: USA Zip: 95066

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

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

Execution Date(s) July 11, 2011 and July 13, 2011

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Joint Research Agreement
☐ Government Interest Assignment
☐ Executive Order 9424, Confirmatory License
☐ Other _____

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)

13/173,854

Additional numbers attached? ☐ Yes ☒ No

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

Name: Braden Katterheinrich

Internal Address: Seagate Technology LLC

Street Address: 7801 Computer Avenue South

City: Bloomington

State: MN Zip: 55435

Phone Number: 952-402-8035

Fax Number: 952-402-8187

Email Address: _____

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00

- ☒ Authorized to be charged to deposit account
☐ Enclosed
☐ None required (government interest not affecting title)

8. Payment Information

Deposit Account Number 191038

Authorized User Name Braden Katterheinrich

9. Signature:

Braden Katterheinrich
Signature

8-12-11
Date

Braden Katterheinrich
Name of Person Signing

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

6

ASSIGNMENT

Seagate Docket No. : STL16685.00

WHEREAS, I/we Zhe Shen of 19154 Ittabena Way, Lakeville, MN 55044, Huaqing Yin of 18600 Sandy Point Road, Eden Prairie, MN 55347, Jianhua Xue of 16941 66th Place North, Maple Grove, MN 55311, Mark Gubbins of 4, Carraig Leigh, Kiltroy, Letterkenny, Ireland and Alex Wong of 42 Spruce Meadows, Londonderry, BT48 8SF, United Kingdom are the inventor(s) of an invention entitled DEVICES FOR A WRITE POLE TIP WITH A CONVEX SHAPE that is the subject matter of: (check all that apply)

- ☐ a provisional application for Letters Patent which is identifiable in the United States Patent and Trademark Office by Application No. _____ filed on _____;
- ☒ an application for Letters Patent which is identifiable in the United States Patent and Trademark Office by Application No. _____ filed on _____ and/or executed on even date herewith: and
- ☐ an international application for Letters Patent filed pursuant to the Patent Cooperation Treaty which is identifiable in the United States Receiving Office by Application No. _____ filed on _____; and/or executed on even date herewith:

WHEREAS, Seagate Technology LLC, a limited liability company organized and existing under the laws of the State of Delaware and the United States of America, and having offices at 920 Disc Drive, Scotts Valley, California, 95066 USA, ("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, I/we transfer to Assignee, its successors and assigns, my/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 I/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.

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

I/We represent to the Assignee, its successors and assigns, that I/we have not and shall not execute any writing or do any act whatsoever conflicting with this Assignment. I/We, my/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.

Zhe Shen
Zhe Shen (Inventor) 7/11/11
Date

State of Minnesota
County of Hennepin
On 7/11/11 before me,

Mary Patnode
(insert name and title of the officer)

personally appeared Zhe Shen (Inventor), who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of Minnesota that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature Mary M. Patnode (Seal)
Signature of Notary Public



Huagang Yin
Huagang Yin (Inventor) 7/11/11
Date

State of Minnesota
County of Hennepin
On 7/11/11 before me,

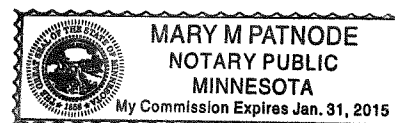
Mary Patnode
(insert name and title of the officer)

personally appeared Huagang Yin (Inventor), who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of Minnesota that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature Mary M. Patnode (Seal)
Signature of Notary Public



Jianhua Xue
Jianhua Xue (Inventor) 7/11/2011
Date

State of Minnesota
County of Hennepin
On 7/11/11 before me,

Mary Patnode
(insert name and title of the officer)

personally appeared Jianhua Xue (Inventor), who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of Minnesota that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature Mary M. Patnode (Seal)
Signature of Notary Public



Mark Gubbins (Inventor)

Date

State of _____
County of _____
On _____ before me,

(insert name and title of the officer)

personally appeared Mark Gubbins (Inventor), who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of _____ that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature _____ (Seal)
Signature of Notary Public

Jianhua Xue (Inventor)

Date

State of _____)

County of _____)

On _____ before me, _____
(insert name and title of the officer)

personally appeared Jianhua Xue (Inventor), who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of _____ that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature _____ (Seal)
Signature of Notary Public

Mark Gubbins

Mark Gubbins (Inventor)

Date

State of N. IRELAND .)

County of UNITED KINGDOM)

On 13/7/2011 before me, BEVERLEY MCCONNELL
(insert name and title of the officer)

personally appeared Mark Gubbins (Inventor), who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of N. IRELAND that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Beverley McConnell

Signature _____ (Seal)
Signature of Notary Public

Alex Wong
Alex Wong (Inventor) 13/7/2011
Date

State of N. IRELAND

County of UNITED KINGDOM

On 13/07/2011 before me, BEVERLEY MCCONNELL
(insert name and title of the officer)

personally appeared Alex Wong (Inventor), who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of N. IRELAND that the foregoing paragraph is true and correct.

WITNESS my hand and official seal. Beverley McConnell

Signature _____ (Seal)
Signature of Notary Public