

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>Execution Date</th> </tr> </thead> <tbody> <tr><td>Song S. Xue</td><td>12/26/2007</td></tr> <tr><td>Zheng Gao</td><td>12/13/2007</td></tr> <tr><td>Shaoping Li</td><td>01/15/2008</td></tr> <tr><td>Kaizhong Gao</td><td>12/12/2007</td></tr> <tr><td>Dimitar V. Dimitrov</td><td>12/13/2007</td></tr> <tr><td>Konstantin Nikolaev</td><td>12/14/2007</td></tr> <tr><td>Patrick J. Ryan</td><td>12/17/2007</td></tr> </tbody> </table>		Name	Execution Date	Song S. Xue	12/26/2007	Zheng Gao	12/13/2007	Shaoping Li	01/15/2008	Kaizhong Gao	12/12/2007	Dimitar V. Dimitrov	12/13/2007	Konstantin Nikolaev	12/14/2007	Patrick J. Ryan	12/17/2007
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RECEIVING PARTY DATA																	
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>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						
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CORRESPONDENCE DATA																	
<p>Fax Number: (612)339-6580</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 612-339-1863</p> <p>Email: drfairbairn@kinney.com</p> <p>Correspondent Name: David R. Fairbairn</p> <p>Address Line 1: 312 South Third Street</p> <p>Address Line 2: Kinney & Lange, P.A.</p> <p>Address Line 4: Minneapolis, MINNESOTA 55415-1028</p>																	
ATTORNEY DOCKET NUMBER:	S895.12-130																

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PATENT
REEL: 025958 FRAME: 0596

NAME OF SUBMITTER:

David R. Fairbairn

Total Attachments: 5

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PATENT

REEL: 025958 FRAME: 0597

ASSIGNMENT

Attorney Docket No. : S895.12-0057

Seagate Docket No. : STL 13409.00

Fremont, CA

WHEREAS, we Song S. Xue, of Edina, MN, USA; Zheng Gao, of Savage, MN, USA; Shaoping Li, of Naperville, IL, USA; Kaizhong Gao, of Eden Prairie, MN, USA; Dimitar V. Dimitrov, of Edina, MN, USA; Konstantin Nikolaev, of Edina, MN, USA; and Patrick J. Ryan, of St. Paul, MN, USA, are the inventor(s) of an invention entitled MAGNETIC SENSOR INCLUDING A FREE LAYER HAVING PERPENDICULAR TO THE PLANE ANISOTROPY 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 has been executed on even date herewith and/or is identifiable in the United States Patent and Trademark Office by Application No. filed on ;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

WHEREAS, Seagate Technology LLC, a Delaware limited liability corporation 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, 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 application numbers 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, 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.

ASSIGNMENT

Attorney Docket No. : S895.12-0057

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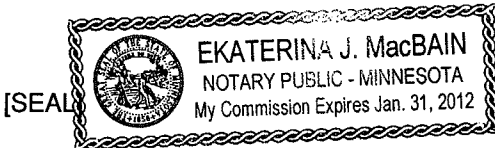
IN TESTIMONY WHEREOF, I have hereunto set my hand this 26 day of December, 2007.

STATE OF MN)

COUNTY OF Hennepin)

) ss.

On this 26th day of December, 2007, before me personally appeared Songsheep Xue to me known to be identified herein, and who executed the foregoing instrument, and acknowledged to me that he/she executed the same for the uses and purposes herein set forth.



Songsheep Xue
Notary Public

IN TESTIMONY WHEREOF, I have hereunto set my hand this 13 day of Dec, 2007.

STATE OF Minnesota)

COUNTY OF Hennepin)

) ss.

On this 13th day of December, 2007, before me personally appeared Zheng Gao to me known to be identified herein, and who executed the foregoing instrument, and acknowledged to me that he/she executed the same for the uses and purposes herein set forth.

[SEAL]



Zheng Gao
Notary Public

ASSIGNMENT

Attorney Docket No. : S895.12-0057

Seagate Docket No. : STL 13409.00

IN TESTIMONY WHEREOF, I have hereunto set my hand this 15th day of Jan., 2008

Shaoping Li

Shaoping Li

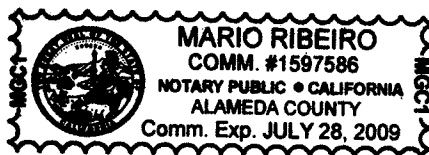
STATE OF CALIFORNIA)

) ss.

COUNTY OF ALAMEDA)

On this 15 day of January, 2008 before me personally appeared SHAOPING LI to me known to be identified herein, and who executed the foregoing instrument, and acknowledged to me that he/she executed the same for the uses and purposes herein set forth.

[SEAL]



[Signature]
Notary Public

IN TESTIMONY WHEREOF, I have hereunto set my hand this 12 day of Dec., 2007.

Gao Kaizhong

Kaizhong Gao

STATE OF Minnesota)

) ss.

COUNTY OF Hennepin)

On this 12th day of December, 2007, before me personally appeared Kaizhong Gao to me known to be identified herein, and who executed the foregoing instrument, and acknowledged to me that he/she executed the same for the uses and purposes herein set forth.

[SEAL]



[Signature]
Notary Public

ASSIGNMENT

Attorney Docket No. : S895.12-0057

Seagate Docket No. : STL 13409.00

IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of 13, Dec, 2007.

Dimitar Dimitrov

Dimitar V. Dimitrov

STATE OF Minnesota)
COUNTY OF Hennepin) ss.

On this 13th day of December, 2007, before me personally appeared Dimitar Dimitrov to me known to be identified herein, and who executed the foregoing instrument, and acknowledged to me that he/she executed the same for the uses and purposes herein set forth.

[SEAL]



Ruth C. Zibble
Notary Public

IN TESTIMONY WHEREOF, I have hereunto set my hand this 14 day of December, 2007.

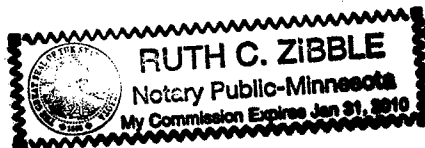
Konstantin Nikolaev

Konstantin Nikolaev

STATE OF Minnesota)
COUNTY OF Hennepin) ss.

On this 14th day of December, 2007, before me personally appeared Konstantin Nikolaev to me known to be identified herein, and who executed the foregoing instrument, and acknowledged to me that he/she executed the same for the uses and purposes herein set forth.

[SEAL]



Ruth C. Zibble
Notary Public

ASSIGNMENT

Attorney Docket No. : S895.12-0057

Seagate Docket No. : STL 13409.00

IN TESTIMONY WHEREOF, I have hereunto set my hand this 17th day of December, 2007.

Pat Ryan

Patrick J. Ryan

STATE OF Minnesota)

COUNTY OF Hennepin) ss.

On this 17th day of December, 2007, before me personally appeared Pat Ryan to me known to be identified herein, and who executed the foregoing instrument, and acknowledged to me that he/she executed the same for the uses and purposes herein set forth.

[SEAL]



Teresa Marie Feldstein

Notary Public