

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Yong Lu</td><td>12/01/2008</td></tr><tr><td>Hongyue Liu</td><td>12/01/2008</td></tr><tr><td>Zheng Gao</td><td>12/01/2008</td></tr><tr><td>Insik Jin</td><td>12/01/2008</td></tr><tr><td>Dimitar V. Dimitrov</td><td>12/01/2008</td></tr></tbody></table>		Name	Execution Date	Yong Lu	12/01/2008	Hongyue Liu	12/01/2008	Zheng Gao	12/01/2008	Insik Jin	12/01/2008	Dimitar V. Dimitrov	12/01/2008
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RECEIVING PARTY DATA													
<table border="1"><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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PROPERTY NUMBERS Total: 1													
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CORRESPONDENCE DATA													
Fax Number: (651)259-6701 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>													
Phone: 651.259.6705													
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ATTORNEY DOCKET NUMBER:	1011.14157.00												
NAME OF SUBMITTER:	Brian C. Whipps												

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PATENT
REEL: 021915 FRAME: 0162

Total Attachments: 5

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PATENT

REEL: 021915 FRAME: 0163

ASSIGNMENT

WHEREAS, WE,

- (1) Yong Lu, residing at 13239 Crusheen Court, Rosemount, Minnesota 55068;
- (2) Hongyue Liu, residing at 18540 65th Avenue North, Maple Grove, Minnesota 55311;
- (3) Zheng Gao, residing at 13515 Foxberry Road, Savage, Minnesota 55378;
- (4) Insik Jin, residing at 1569 Johnny Cake Alcove, Eagan, Minnesota 55122; and
- (5) Dimitar V. Dimitrov, residing at 5709 68th Street W., Edina, Minnesota 55439;

have invented certain improvements in **MAGNETIC MEMORY WITH SEPARATE READ AND WRITE PATHS** for which We have executed an application for Letters Patent of United States of America,

☒ is attached hereto.
☐ was filed on _____ as United States Application No. _____; and

WHEREAS We hereby authorize and request the Assignee, Seagate Technology LLC, to insert the filing date and application number of said application when known; and

WHEREAS, Seagate Technology LLC, a company organized and existing under the laws of the State of Delaware and having a principal place of business at 920 Disc Drive, Scotts Valley, California 95066, hereinafter referred to as "Company," is desirous of acquiring the entire right, title and interest in and to said invention for the United States and for all foreign countries and in and to any and all foreign and domestic Letters Patent which may be granted therefor;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, We have sold, assigned, transferred and set over and by these presents do sell, assign, transfer and set over unto Company, its successors and assigns, the entire right, title and interest in and to said invention and the entire right, title and interest in and to any and all Letters Patent of the United States (including, without limitation, every patent application identified above) and any foreign countries which may be granted therefor including my rights under the International Convention for the Protection of Industrial Property, and in and to any and all extensions, divisions, continuations, continuations-in-part or reissues of said Letters Patent that may be granted, the same to be held and enjoyed by Company for its own use and benefit and use and benefit of its successors and assigns to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by me had this assignment and sale not been made;

AND, for the consideration aforesaid, we materially represent to Company, its successors and assigns, that at the time of the execution and delivery of these presents, We are the lawful owners of the entire right, title and interest in and to the invention, application and Letters Patent above mentioned, and that the same are unencumbered, and that we have good right and lawful authority to sell and convey the same in the manner herein set forth;

AND, for the consideration aforesaid, we hereby individually covenant and agree to and with Company, its successors and assigns, that whenever its counsel or the counsel of its successors or assigns, learned in the law, shall advise that an amendment or division of, or continuation or any continuation-in-part thereof, or any other proceeding in connection with the filing or prosecution of said domestic or foreign patent applications, including interference proceedings, is lawful and desirable, or that a reissue of extension of said Letters Patent is lawful and desirable, we, or my executors, administrators or assigns will sign all papers and drawings, take all rightful oaths, and do all acts necessary or required to be done for the procurement of valid Letters Patent for said invention, or for the reissue or extension of the same, without charge to Company, its successors or assigns, but at Company's expense.

We hereby request the Honorable Commissioner of Patents and Trademarks to issue the Letters Patent to Company in accordance with this instrument.

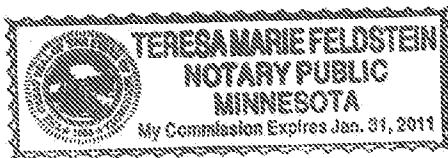
IN WITNESS WHEREOF, We have hereunto set my hand on this 20 day of Nov., 2008

Yong Lu

STATE OF MINNESOTA)
) ss.
COUNTY OF Hennepin)

On this 20 day of November, 2008 before me personally appeared Yong Lu, to me known to be the person described in and who executed the foregoing instrument and acknowledged that he executed the same as his free act and deed.


IN WITNESS WHEREOF, I have hereunto affixed my official signature with the seal of my office, the day and year above written.



Teresamaria Feldstein
Notary Public

[SEAL]

IN WITNESS WHEREOF, I have hereunto set my hand on this 21 day of November, 2008.



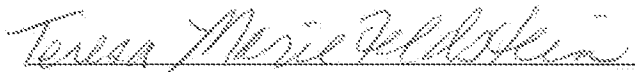
Hongyue Liu

STATE OF MINNESOTA)
) ss.
COUNTY OF Hennepin)

On this 21st day of November, 2008, before me personally appeared Hongyue Liu, to me known to be the person described in and who executed the foregoing instrument and acknowledged that he executed the same as his free act and deed.

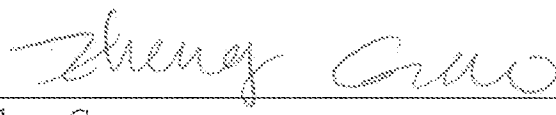
IN WITNESS WHEREOF, I have hereunto affixed my official signature with the seal of my office, the day and year above written.





Teresa Marie Feldstein
Notary Public

IN WITNESS WHEREOF, I have hereunto set my hand on this 1st day of Dec, 2008.



Zheng Gao

STATE OF MINNESOTA)
) ss.
COUNTY OF Hennepin)

On this 1st day of December, 2008, before me personally appeared Zheng Gao, to me known to be the person described in and who executed the foregoing instrument and acknowledged that he executed the same as his free act and deed.

IN WITNESS WHEREOF, I have hereunto affixed my official signature with the seal of my office, the day and year above written.

Teresa Marie Feldstein

Notary Public



[SEAL]

IN WITNESS WHEREOF, I have hereunto set my hand on this 21st day of November, 2008.

Insik Jin

STATE OF MINNESOTA)
) SS.
COUNTY OF Hennepin)

On this 21st day of November, 2008, before me personally appeared Insik Jin, to me known to be the person described in and who executed the foregoing instrument and acknowledged that he executed the same as his free act and deed.

IN WITNESS WHEREOF, I have hereunto affixed my official signature with the seal of my office,
the day and year above written.

Teresa Marie Feldstein

Notary Public



[SEAL]

IN WITNESS WHEREOF, I have hereunto set my hand on this 20 day of November, 2008.

Dimitar Dimitrov
Dimitar V. Dimitrov

STATE OF MINNESOTA)
) ss.
COUNTY OF Hennepin)

On this 20th day of November, 2008, before me personally appeared Dimitar V. Dimitrov, to me known to be the person described in and who executed the foregoing instrument and acknowledged that he executed the same as his free act and deed.

IN WITNESS WHEREOF, I have hereunto affixed my official signature with the seal of my office, the day and year above written.

Teresa Marie Feldstein
Notary Public



[SEAL]

☒ This is the final page of this Assignment.