

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>Yiran Chen</td><td>03/25/2009</td></tr><tr><td>Hai Li</td><td>03/25/2009</td></tr><tr><td>Wengzhong Zhu</td><td>03/26/2009</td></tr><tr><td>Xiaobin Wang</td><td>03/25/2009</td></tr><tr><td>Ran Wang</td><td>03/25/2009</td></tr><tr><td>Hongyue Liu</td><td>03/25/2009</td></tr></tbody></table>	Name	Execution Date	Yiran Chen	03/25/2009	Hai Li	03/25/2009	Wengzhong Zhu	03/26/2009	Xiaobin Wang	03/25/2009	Ran Wang	03/25/2009	Hongyue Liu	03/25/2009	
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Hongyue Liu	03/25/2009														
RECEIVING PARTY DATA															
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"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>12412546</td></tr></tbody></table>	Property Type	Number	Application Number:	12412546											
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Application Number:	12412546														
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														
Email:	dlagro@cnwiplaw.com														
Correspondent Name:	Brian C. Whipps														
Address Line 1:	408 St. Peter Street														
Address Line 2:	Suite 240														
Address Line 4:	St. Paul, MINNESOTA 55102														
ATTORNEY DOCKET NUMBER:	1011.14771.00														

OP \$40.00 12412546

500819494

PATENT
REEL: 022462 FRAME: 0192

NAME OF SUBMITTER:

Brian C. Whipps

Total Attachments: 5

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ASSIGNMENT

WHEREAS, WE,

- (1) Yiran Chen, residing at 10124 Phaeton Drive, Eden Prairie, Minnesota 55347;
- (2) Hai Li, residing at 10124 Phaeton Drive, Eden Prairie, Minnesota 55347;
- (3) Wengzhong Zhu, residing at 13073 Elderberry Court, Apple Valley, Minnesota 55124;
- (4) Xiaobin Wang, residing at 180 Bluff Ridge Court, Chanhassen, Minnesota 55317;
- (5) Ran Wang, residing at 10717 France Avenue South, Apt. 207, Bloomington, Minnesota 55431; and
- (6) Hongyue Liu, residing at 18540 65th Avenue North, Maple Grove, Minnesota 55311;

have invented certain improvements in **WRITE METHOD WITH VOLTAGE TUNING** 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 or 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.

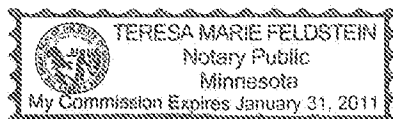
IN WITNESS WHEREOF, We have hereunto set my hand on this 25th day of March, 2009.

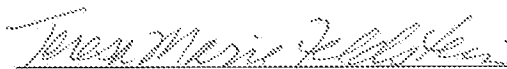

Yiran Chen

STATE OF MINNESOTA)
) ss.
COUNTY OF Hennepin)

On this 25th day of March, 2009 before me personally appeared Yiran Chen, 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.




Notary Public

[SEAL]

IN WITNESS WHEREOF, We have hereunto set my hand on this 25th day of March, 2009.

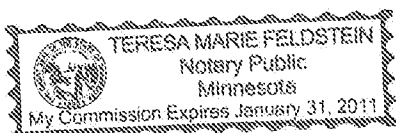


Hai Li

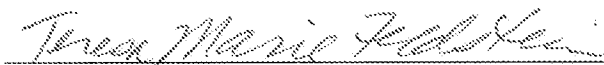
STATE OF MINNESOTA)
) ss.
COUNTY OF Hennepin)

On this 25th day of March, 2009 before me personally appeared Hai Li, 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.

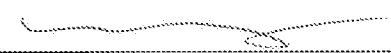


[SEAL]



Notary Public

IN WITNESS WHEREOF, We have hereunto set my hand on this 26th day of March, 2009.

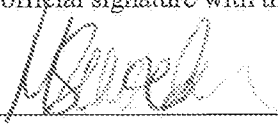


Wengzhong Zhu

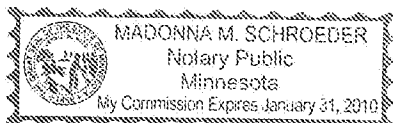
STATE OF MINNESOTA)
) ss.
COUNTY OF Sent)

On this 26th day of March, 2009 before me personally appeared Wengzhong Zhu, 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.

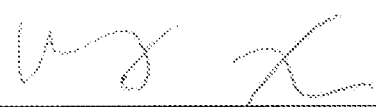


Notary Public



[SEAL]

IN WITNESS WHEREOF, We have hereunto set my hand on this 25 day of
March, 2009.

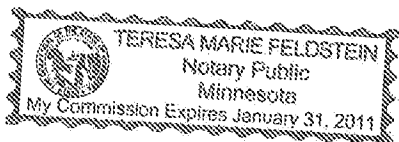


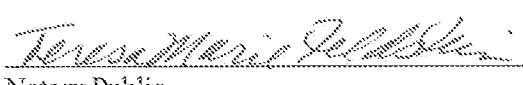
Xiaobin Wang

STATE OF MINNESOTA)
) ss.
COUNTY OF Hennepin)

On this 25th day of March, 2009 before me personally appeared Xiaobin Wang, 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.





Notary Public

[SEAL]

IN WITNESS WHEREOF, We have hereunto set my hand on this 25th day of
March, 2009.

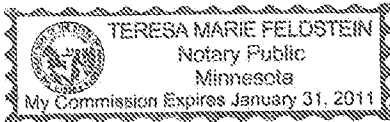


Ran Wang

STATE OF MINNESOTA)
) ss.
COUNTY OF Hennepin)

On this 25th day of March, 2009 before me personally appeared Ran Wang, 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]

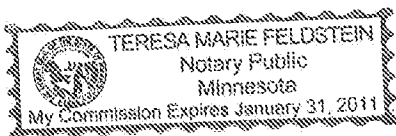
IN WITNESS WHEREOF, We have hereunto set my hand on this 25 day of March, 2009.

[Signature]
Hongyue Liu

STATE OF MINNESOTA)
) ss.
COUNTY OF Hennepin)

On this 25th day of March, 2009 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

[SEAL]

☒ This is the final page of this Assignment.