

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>Hongyue Liu</td><td>09/16/2008</td></tr><tr><td>Yong Lu</td><td>09/17/2008</td></tr><tr><td>Andrew Carter</td><td>09/17/2008</td></tr><tr><td>Yiran Chen</td><td>09/17/2008</td></tr><tr><td>Hai Li</td><td>09/17/2008</td></tr></tbody></table>		Name	Execution Date	Hongyue Liu	09/16/2008	Yong Lu	09/17/2008	Andrew Carter	09/17/2008	Yiran Chen	09/17/2008	Hai Li	09/17/2008
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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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Application Number:	12212798												
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:	1011.14219.00												
NAME OF SUBMITTER:	Brian C. Whipps												

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PATENT
REEL: 021550 FRAME: 0352

Total Attachments: 5

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PATENT

REEL: 021550 FRAME: 0353

ASSIGNMENT

WHEREAS, WE,

- (1) Hongyue Liu, residing at 18540 65th Avenue North, Maple Grove, Minnesota 55311;
- (2) Yong Lu, residing at 13239 Crusheen Court, Rosemount, Minnesota 55068;
- (3) Andrew Carter, residing at 2324 Taylor Street NE, Minneapolis, Minnesota 55418;
- (4) Yiran Chen, residing at 10124 Phaeton Drive, Eden Prairie, Minnesota 55347; and
- (5) Hai Li, residing at 10124 Phaeton Drive, Eden Prairie, Minnesota 55347,

have invented certain improvements in **MEMORY ARRAY WITH READ REFERENCE VOLTAGE CELLS** 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 corporation 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 "Corporation," 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;

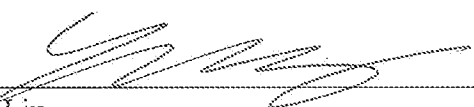
NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, We have sold, assigned, transferred and set over and by these presents do sell, assign, transfer and set over unto Corporation, its successors and assigns, the entire right, title and interest 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 Corporation 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 Corporation, 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 Corporation, 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 Corporation, its successors or assigns, but at Corporation's expense.

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

IN WITNESS WHEREOF, We have hereunto set my hand on this 16 day of September, 2008

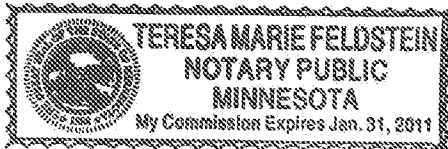


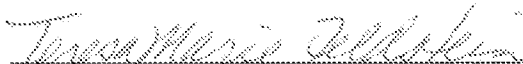
Hongyue Liu

STATE OF MINNESOTA)
) ss.
COUNTY OF Hennepin)

On this 17th day of September, 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.

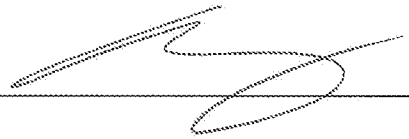




Teresa Marie Feldstein
Notary Public

[SEAL]

IN WITNESS WHEREOF, I have hereunto set my hand on this 17 day of September, 2008.

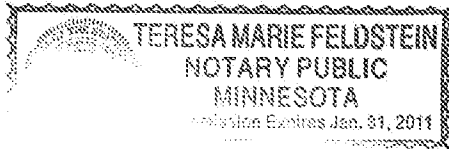


Yong Lu

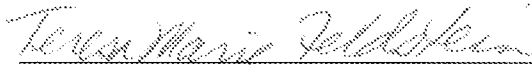
STATE OF MINNESOTA)
) ss.
COUNTY OF Hennepin)

On this 17th day of September, 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.

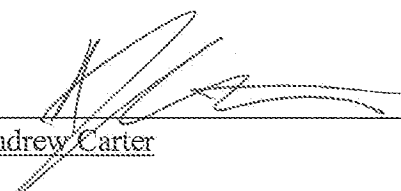


[SEAL]



Notary Public

IN WITNESS WHEREOF, I have hereunto set my hand on this 17 day of September, 2008.

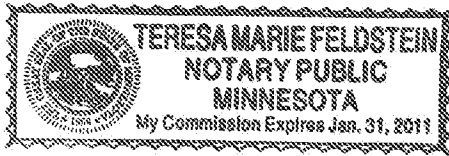


Andrew Carter

STATE OF MINNESOTA)
) ss.
COUNTY OF Hennepin)

On this 17th day of September, 2008, before me personally appeared Andrew Carter, 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 Feltkin
Notary Public

[SEAL]

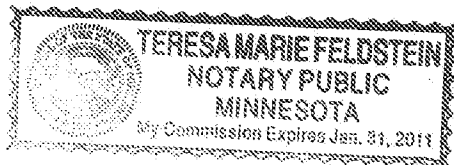
IN WITNESS WHEREOF, I have hereunto set my hand on this 17 day of Sep., 2008.

Yiran Chen

STATE OF MINNESOTA)
) ss.
COUNTY OF Hennepin)

On this 17th day of September, 2008, 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.



Teresa Maria Becklein
Notary Public

[SEAL]

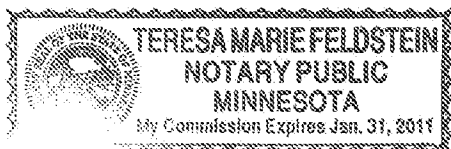
IN WITNESS WHEREOF, I have hereunto set my hand on this 17th day of September, 2008.

Hai Li

STATE OF MINNESOTA)
) ss.
COUNTY OF Hennepin)

On this 17th day of September, 2008, 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.



Teresa Marie Feldstein
Notary Public

[SEAL]

☒ This is the final page of this Assignment.