

PATENT ASSIGNMENT

Electronic Version v1.1
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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Andreas Roelofs	07/10/2009
Markus Siegert	07/10/2009
Venugopalan Vaithyanathan	07/09/2009
Wei Tian	07/09/2009
Yongchul Ahn	07/10/2009
Muralikrishnan Balakrishnan	07/09/2009
Olle Heinonen	07/09/2009
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	
Property Type	Number
Application Number:	12501533
CORRESPONDENCE DATA	
Fax Number:	(651)259-6705
<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:	1011.16077.00

OP \$40.00 12501533

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PATENT
REEL: 022946 FRAME: 0301

NAME OF SUBMITTER:

Brian C. Whipps

Total Attachments: 8

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ASSIGNMENT

WHEREAS, WE,

- (1) Andreas Roelofs, residing at 7017 Boyd Avenue, Eden Prairie, Minnesota 55346;
- (2) Markus Siegert, residing at 4333 Colfax Avenue South, Minneapolis, Minnesota 55409;
- (3) Venugopalan Vaithyanathan, residing at 9851 Harrison Road, Apt. 308, Bloomington, Minnesota 55437;
- (4) Wei Tian, residing at 4101 West 98th Street, #202, Bloomington, Minnesota 5537;
- (5) Yongchul Ahn, residing at 1685 Oakbrooke Way, Eagan, Minnesota 55122;
- (6) Muralikrishnan Balakrishnan, residing at 13159 Spencer Sweet Pea Lane, Eden Prairie, Minnesota 55347; and
- (7) Olle Heinonen, residing at 15824 Park Terrace Drive, Eden Prairie, Minnesota 55346;

have invented certain improvements in **NON-VOLATILE RESISTIVE SENSE MEMORY** 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 10th day of July, 2009.



Andreas Roelofs

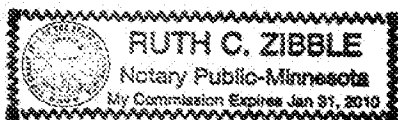
STATE OF MINNESOTA)
) ss.
COUNTY OF Hennepin)

On this 10th day of July, 2009 before me personally appeared Andreas Roelofs, 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 10 day of July, 2009.

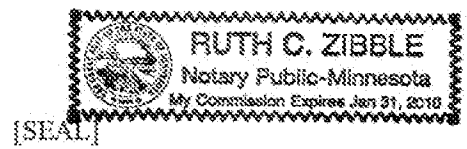
M. Siegert
Markus Siegert

STATE OF MINNESOTA)
COUNTY OF Hennepin) ss.

On this 10th day of July, 2009 before me personally appeared Margus Siegert, 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.

Ruth C. Zible
Notary Public





Atty Docket No.: 1011.16077.00

IN WITNESS WHEREOF, We have hereunto set my hand on this 9th day of July, 2009.

V. Venugopalan Vaithyanathan
Venugopalan Vaithyanathan

MISSOURI
STATE OF MISSOURI)
COUNTY OF St. Charles) ss.

On this 9 day of July, 2009 before me personally appeared Venugopalan Vaithyanathan, 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.



DON E. HOFMANN
My Commission Expires
October 8, 2011
St. Charles County
Commission #07365673

Don E. Hofmann
Notary Public

[SEAL]

IN WITNESS WHEREOF, We have hereunto set my hand on this 9th day of July, 2009.

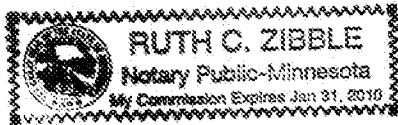
[Signature]
Wei Tian

STATE OF MINNESOTA)
) ss.
COUNTY OF Hennepin)

On this 9th day of July, 2009 before me personally appeared Wei Tian, 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.

[Signature]
Notary Public



[SEAL]

IN WITNESS WHEREOF, We have hereunto set my hand on this 10th day of July, 2009.

Yongchul Ahn
Yongchul Ahn

STATE OF MINNESOTA)
COUNTY OF Hennepin) ss.

On this 10th day of July, 2009 before me personally appeared Yongchul Ahn, 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.

Ruth C. Zibble
Notary Public

[SEAL]



Atty Docket No.: 1011.16077.00

IN WITNESS WHEREOF, We have hercunto set my hand on this 9th day of July, 2009.

[Signature]
Muralikrishnan Balakrishnan

missouri
STATE OF MINNESOTA DA
COUNTY OF St. Charles } ss.

On this 9 day of July, 2009 before me personally appeared Muralikrishnan Balakrishnan, 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 hercunto affixed my official signature with the seal of my office, the day and year above written.

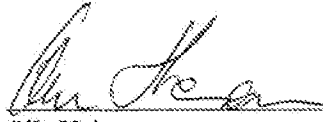


DON E. HOFFMANN
My Commission Expires
October 8, 2011
St. Charles County
Commission #07306573

[Signature]
Notary Public

[SEAL]

IN WITNESS WHEREOF, We have hereunto set my hand on this 9th day of July, 2009.



Olle Heinonen

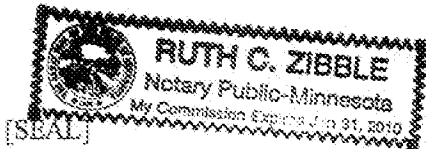
STATE OF MINNESOTA)
) ss.
COUNTY OF Hennepin)

On this 9th day of July, 2009 before me personally appeared Olle Heinonen, 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



This is the final page of this Assignment.