

PATENT ASSIGNMENT

Electronic Version v1.1
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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>Insik Jin</td><td>07/10/2009</td></tr> <tr><td>YoungPil Kim</td><td>07/09/2009</td></tr> <tr><td>Ming Sun</td><td>07/09/2009</td></tr> <tr><td>Chulmin Jung</td><td>07/09/2009</td></tr> <tr><td>Venugopalan Vaithyanathan</td><td>07/09/2009</td></tr> <tr><td>Nurul Amin</td><td>07/10/2009</td></tr> <tr><td>Wei Tian</td><td>07/09/2009</td></tr> <tr><td>Yong Lu</td><td>07/09/2009</td></tr> </tbody> </table>		Name	Execution Date	Insik Jin	07/10/2009	YoungPil Kim	07/09/2009	Ming Sun	07/09/2009	Chulmin Jung	07/09/2009	Venugopalan Vaithyanathan	07/09/2009	Nurul Amin	07/10/2009	Wei Tian	07/09/2009	Yong Lu	07/09/2009
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RECEIVING PARTY DATA																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 20%;">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: (405)232-9659 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 405-232-0621</p> <p>Email: mccarthy@fellerssnider.com</p> <p>Correspondent Name: Fellers, Snider, et al.</p> <p>Address Line 1: 100 North Broadway</p> <p>Address Line 2: Suite 1700</p> <p>Address Line 4: Oklahoma City, OKLAHOMA 73102-8820</p>																			

OP \$40.00 12501751

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PATENT
REEL: 022946 FRAME: 0647

ATTORNEY DOCKET NUMBER:	STL14767
NAME OF SUBMITTER:	Randall K. McCarthy
Total Attachments: 3 source=2009-07-13-Assignment-STL14767#page1.tif source=2009-07-13-Assignment-STL14767#page2.tif source=2009-07-13-Assignment-STL14767#page3.tif	

ASSIGNMENT

Seagate Docket No. STL14767

WHEREAS, I/we, Insik Jin of 1569 Johnny Cake Alcove, Eagan, MN 55122, YoungPil Kim of 9151 Victoria Drive, Eden Prairie, MN 55347, Ming Sun of 9145 Belvedere Drive, Eden Prairie, MN 55347, Chulmin Jung of 15525 June Grass Lane, Eden Prairie, MN 55347, Venugopalan Vaithyanathan of 9851 Harrison Road, Apt. 212, Bloomington, MN 55437, Nurul Amin of 8797 Rainier Drive, Woodbury, MN 55122, Wei Tian of 4101 West 98 Street, Apt. #209, Bloomington, MN 55437 and Yong Lu of 7115 Tralee Drive, Edina, MN 55439 am/are the inventor(s) of an invention entitled NON-VOLATILE MEMORY CELL STACK WITH DUAL RESISTIVE ELEMENTS 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 ;
- ☒ an application for Letters Patent which is identifiable in the United States Patent and Trademark Office by Application No. filed herewith; 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. and filed on ; and

WHEREAS, Seagate Technology LLC, a limited liability company organized and existing under the laws of the State of Delaware and the United States of America, 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, I/we transfer to Assignee, its successors and assigns, my entire right, title and interest in and to the invention, the above-identified applications, all provisional applications for 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 I/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.

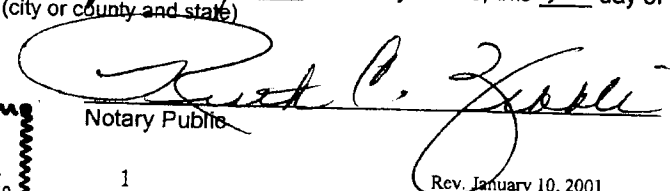
I/We authorize the Assignee, its successors and assigns, to insert in this instrument the filing date(s) and application numbers when ascertained. I/We further authorize the Assignee, its successors and assigns, or anyone it may properly designate, to apply for Letters Patent or similar legal protection, 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.

I/We represent to the Assignee, its successors and assigns, that I/We have not and shall not execute any writing or do any act whatsoever conflicting with this Assignment. I/We, my/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.


Insik Jin (Inventor)

Subscribed and sworn to before me at Hennepin Co., Mn, a Notary Public, this 10th day of July, 2009.
(city or county and state)




Notary Public

Young Pil Kim
Young Pil Kim (Inventor)

Subscribed and sworn to before me at Hennepin Co., MN, a Notary Public, this 9th day of July, 2009.
(city or county and state)

Ruth C. Zibble
Notary Public

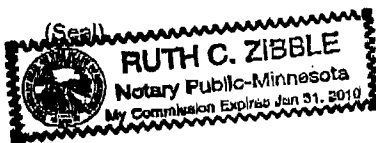


Ming Sun

Ming Sun (Inventor)

Subscribed and sworn to before me at Hennepin Co., MN, a Notary Public, this 9th day of July, 2009.
(city or county and state)

Ruth C. Zibble
Notary Public



Chulmin Jung

Chulmin Jung (Inventor)

Subscribed and sworn to before me at Hennepin Co., MN, a Notary Public, this 9th day of July, 2009.
(city or county and state)

Ruth C. Zibble
Notary Public



V. Venugopalan

Venugopalan Vaithyanathan (Inventor)

Subscribed and sworn to before me at St. Charles, mo, a Notary Public, this 9 day of July, 2009.
(city or county and state)



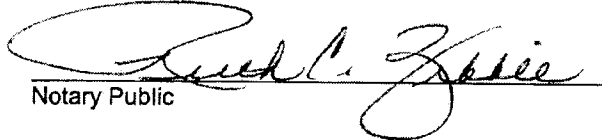
DON E. HOFMANN
My Commission Expires
October 8, 2011
St. Charles County
Commission #07385573

Don E. Hofmann
Notary Public

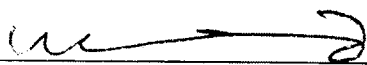
Nurul Amin

Nurul Amin (Inventor)

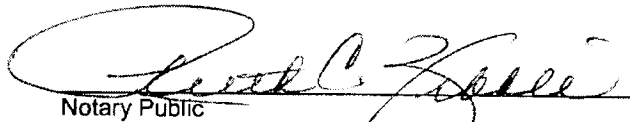
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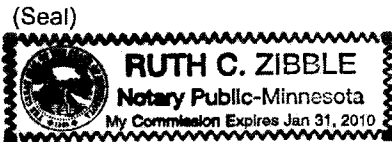

Notary Public





Wei Tian (Inventor)

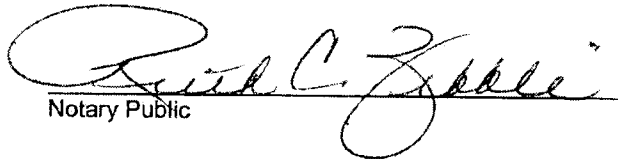
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Notary Public




Yong Lu (Inventor)

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