PATENT ASSIGNMENT

Electronic Version v1.1
Stylesheet Version v1.1

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<th>NEW ASSIGNMENT</th>
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<td>NATURE OF CONVEYANCE:</td>
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### CONVEYING PARTY DATA

<table>
<thead>
<tr>
<th>Name</th>
<th>Execution Date</th>
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<tbody>
<tr>
<td>Haiwen Xi</td>
<td>09/29/2008</td>
</tr>
<tr>
<td>Kaizhong Gao</td>
<td>09/29/2008</td>
</tr>
<tr>
<td>Dimitar V. Dimitrov</td>
<td>09/29/2008</td>
</tr>
<tr>
<td>Song S. Xue</td>
<td>09/27/2008</td>
</tr>
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### RECEIVING PARTY DATA

<table>
<thead>
<tr>
<th>Name</th>
<th>Seagate Technology LLC</th>
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<tbody>
<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>
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<tr>
<td>Postal Code</td>
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### PROPERTY NUMBERS Total: 1

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<tr>
<td>Application Number</td>
<td>12248257</td>
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### CORRESPONDENCE DATA

Fax Number: (612)492-7077  
Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 6124927000  
Email: echengen@fredlaw.com  
Correspondent Name: Elisabeth Lacy Belden  
Address Line 1: 200 South Sixth Street  
Address Line 2: Suite 4000  
Address Line 4: Minneapolis, MINNESOTA 55402

### ATTORNEY DOCKET NUMBER: 55643.25.1

NAME OF SUBMITTER: Elisabeth Lacy Belden

Total Attachments: 4
ASSIGNMENT

Whereas, Haiwen Xi, residing at 3019 Bobcat Trail NW, Prior Lake, MN 55372; Kaizhong Gao, residing at 12350 Jasper Lane, Eden Prairie, MN 55347; Dimitar V. Dimitrov, residing at 5709 68th Street W., Edina, MN 55435; and Song S. Xue, residing at 5712 Continental Drive, Edina, MN 55436 ("Assignor"), has made invention(s) for which United States and foreign patents and patent applications have been filed and are identified on the attached Schedule 1;

Whereas, Seagate Technology LLC, a Delaware corporation having a place of business at 920 Disc Drive, Scotts Valley, CA 95066-4542 ("Assignee"), desires to acquire the entire right, title and interest in and to the United States and foreign patents and patent applications identified on the attached Schedule 1 and in and to the inventions described and claimed therein (the "Patents"); and

NOW, THEREFORE, in exchange for good and valuable consideration, the receipt of which is hereby acknowledged, Assignor hereby assigns to Assignee, and its successors and assigns the following:

(1) The entire right, title and interest to the Patents including the inventions described or claimed therein, and to each U.S. and foreign patent application and patent from which the Patents claim priority to, in whole or in part, and to which the Patents claim priority; and

(2) The entire right, title and interest to any United States or foreign patents that may issue with respect to the inventions described or claimed in the Patents;

(3) The entire right, title and interest to any renewals, reissues, extensions, substitutions, continuations, continuations-in-part, or divisions of the Patents, and all foreign applications based thereon;

(4) The right to apply for patents in foreign countries in its own name and to claim any priority rights to which such foreign applications are entitled under international conventions, treaties or otherwise; and

(5) The right to enforce patent rights to such Patents as fully and entirely as the same would have been held and enjoyed by the Assignors if this assignment had not been made; together with all claims by Assignors for damages by reason of past infringement or for provisional rights and including the right to sue for, and collect the same for its own use and benefit, and for the use and benefit of its successors, assigns, and other legal representatives.

Assignor further agrees for himself and for his successors and assigns to execute and deliver without further consideration any further applications, assignments or other documents and to perform such other lawful acts as Assignee its successors and assigns may deem necessary to fully secure, maintain and enforce its rights, title or interest as outlined herein.
Assignor hereby authorizes and requests the Commissioner of Patents to issue to Assignee any patents that may be granted in accordance with this Assignment.

We hereby authorize attorneys associated with Customer No. 22859, of 200 South Sixth Street, Suite 4000, Minneapolis, Minnesota, 55402-1425, to insert the Application Nos. and Filing Dates of said application when known.

This Agreement may be executed in one or more counterparts, all of which shall be considered one and the same agreement. The signatures from each counterpart may be combined with a copy of the Agreement to constitute the entire Agreement.

Date: September 29, 2008

Haiwen Xi

Subscribed to and sworn to before me this 29th day of September 2008.

Teresa Marie Feldstein
Notary Public

Notary Seal

Date: September 29, 2008

Kaizhong Gao

Subscribed to and sworn to before me this 29th day of September 2008.

Madonna M. Schroeder
Notary Public

Notary Seal
Date: 09/29/2008

Subscribed to and sworn to before me this 29th day of September 2008.

Teresa Marie Feldstein
Notary Public

Notary Seal

Date: 09/29/2008

Teresa Marie Feldstein
Witness

Witness
SCHEDULE 1

US Patents and Patent Applications

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<tr>
<th>Title</th>
<th>Filing Date</th>
<th>US Application Ser. No.</th>
<th>Patent No.</th>
<th>Inventor(s)</th>
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<td>MRAM CELLS INCLUDING COUPLED FREE FERROMAGNETIC LAYERS FOR STABILIZATION</td>
<td>10/09/2008</td>
<td>12/248,257</td>
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Foreign Patents and Patent Applications

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<th>Application Ser. No.</th>
<th>Patent No.</th>
<th>Inventor(s)</th>
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