**PATENT ASSIGNMENT**

Electronic Version v1.1  
Stylesheet Version v1.1  

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<tr>
<th>SUBMISSION TYPE:</th>
<th>NEW ASSIGNMENT</th>
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<td>ASSIGNMENT</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>Wenyu Chen</td>
<td>12/15/2009</td>
</tr>
<tr>
<td>Sylvia Florez Marino</td>
<td>12/09/2009</td>
</tr>
<tr>
<td>Liesl Folks</td>
<td>12/09/2009</td>
</tr>
<tr>
<td>Bruce Terris</td>
<td>12/10/2009</td>
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**RECEIVING PARTY DATA**

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<tr>
<th>Name:</th>
<th>Hitachi Global Storage Technologies Netherlands B.V.</th>
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<tr>
<td>Street Address:</td>
<td>Locatellikade 1</td>
</tr>
<tr>
<td>Internal Address:</td>
<td>Parnassustoren</td>
</tr>
<tr>
<td>City:</td>
<td>Amsterdam</td>
</tr>
<tr>
<td>State/Country:</td>
<td>NETHERLANDS</td>
</tr>
<tr>
<td>Postal Code:</td>
<td>1076 AZ</td>
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**PROPERTY NUMBERS Total: 1**

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<td>Application Number:</td>
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**CORRESPONDENCE DATA**

Fax Number: (512)439-7199  
*Correspondence will be sent via US Mail when the fax attempt is unsuccessful.*  
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Address Line 4: Austin, TEXAS 78730  

**ATTORNEY DOCKET NUMBER:**  
HSJ920090091US1  
**NAME OF SUBMITTER:**  
Michael E. Noe, Jr.
ASSIGNMENT FOR PATENT APPLICATION

Whereas, we the undersigned inventors have invented certain improvements as set forth in the patent application entitled:

MULTILEVEL FREQUENCY ADDRESSABLE FIELD DRIVEN MRAM

Whereas, Hitachi Global Storage Technologies Netherlands B.V., having a place of business at Locatellikade 1, Parnassustoren, 1076 AZ Amsterdam, The Netherlands (hereinafter referred to as "HITACHI"), desires to acquire the entire right, title and interest in the said application and invention, and to any United States and foreign patents to be obtained therefor;

Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, we hereby sell, assign, and transfer to HITACHI, its successors and assigns, the entire right, title and interest in the said application and invention therein disclosed for the United States and foreign countries, and all rights of priority resulting from the filing of said United States application, and we request the Commissioner of Patents to issue any Letters Patent granted upon the inventions set forth in said application to HITACHI, its successors and assigns; and we hereby agree that HITACHI may apply for foreign Letters Patent on said invention and we will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by HITACHI.

Signed on the date(s) indicated beside our signatures.

1) Signature: ___________________________ Date: Dec 15th, 2009
   Typed Name: Wenyu Chen

2) Signature: ___________________________ Date: ___________________________
   Typed Name: Sylvia Florez Marino

3) Signature: ___________________________ Date: ___________________________
   Typed Name: Liesel Folks

4) Signature: ___________________________ Date: ___________________________
   Typed Name: Bruce Terris
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Typed Name: Wenyu Chen

2) Signature: ___________________________ Date: ___________________________
Typed Name: Sylvia Florez Maríno

3) Signature: ___________________________ Date: ___________________________
Typed Name: Liesl Folks

4) Signature: ___________________________ Date: ___________________________
Typed Name: Bruce Terris