

# PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

| SUBMISSION TYPE:  | NEW ASSIGNMENT                                       |               |  |                     |                 |                      |                |             |            |                |             |              |         |
|---|--|---------------|--|---------------------|-----------------|----------------------|----------------|-------------|------------|----------------|-------------|--------------|---------|
| NATURE OF CONVEYANCE:   | ASSIGNMENT   |               |  |                     |                 |                      |                |             |            |                |             |              |         |
| <b>CONVEYING PARTY DATA</b>   |  |               |  |                     |                 |                      |                |             |            |                |             |              |         |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <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> </tr> </tbody> </table>   |  | Name          | Execution Date                                       | Wenyu Chen          | 12/15/2009      | Sylvia Florez Marino | 12/09/2009     | Liesl Folks | 12/09/2009 | Bruce Terris   | 12/10/2009  |              |         |
| Name  | Execution Date                                       |               |  |                     |                 |                      |                |             |            |                |             |              |         |
| Wenyu Chen  | 12/15/2009   |               |  |                     |                 |                      |                |             |            |                |             |              |         |
| Sylvia Florez Marino  | 12/09/2009   |               |  |                     |                 |                      |                |             |            |                |             |              |         |
| Liesl Folks   | 12/09/2009   |               |  |                     |                 |                      |                |             |            |                |             |              |         |
| Bruce Terris  | 12/10/2009   |               |  |                     |                 |                      |                |             |            |                |             |              |         |
| <b>RECEIVING PARTY DATA</b>   |  |               |  |                     |                 |                      |                |             |            |                |             |              |         |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Name:</td> <td>Hitachi Global Storage Technologies Netherlands B.V.</td> </tr> <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> </tr> </table> |  | Name:         | Hitachi Global Storage Technologies Netherlands B.V. | Street Address:     | Locatellikade 1 | Internal Address:    | Parnassustoren | City:       | Amsterdam  | State/Country: | NETHERLANDS | Postal Code: | 1076 AZ |
| Name:   | Hitachi Global Storage Technologies Netherlands B.V. |               |  |                     |                 |                      |                |             |            |                |             |              |         |
| Street Address:   | Locatellikade 1                                      |               |  |                     |                 |                      |                |             |            |                |             |              |         |
| Internal Address:   | Parnassustoren                                       |               |  |                     |                 |                      |                |             |            |                |             |              |         |
| City:   | Amsterdam  |               |  |                     |                 |                      |                |             |            |                |             |              |         |
| State/Country:  | NETHERLANDS  |               |  |                     |                 |                      |                |             |            |                |             |              |         |
| Postal Code:  | 1076 AZ  |               |  |                     |                 |                      |                |             |            |                |             |              |         |
| <b>PROPERTY NUMBERS Total: 1</b>  |  |               |  |                     |                 |                      |                |             |            |                |             |              |         |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Property Type</th> <th style="width: 70%;">Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12640081</td> </tr> </tbody> </table>   |  | Property Type | Number   | Application Number: | 12640081        |                      |                |             |            |                |             |              |         |
| Property Type   | Number   |               |  |                     |                 |                      |                |             |            |                |             |              |         |
| Application Number:   | 12640081   |               |  |                     |                 |                      |                |             |            |                |             |              |         |
| <b>CORRESPONDENCE DATA</b>  |  |               |  |                     |                 |                      |                |             |            |                |             |              |         |
| <p>Fax Number: (512)439-7199</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: (512)439-7100</p> <p>Email: dgillooly@LNAIaw.com</p> <p>Correspondent Name: LARSON NEWMAN &amp; ABEL, LLP</p> <p>Address Line 1: 5914 West Courtyard Drive</p> <p>Address Line 2: Suite 200</p> <p>Address Line 4: Austin, TEXAS 78730</p>   |  |               |  |                     |                 |                      |                |             |            |                |             |              |         |
| ATTORNEY DOCKET NUMBER:   | HSJ920090091US1                                      |               |  |                     |                 |                      |                |             |            |                |             |              |         |
| NAME OF SUBMITTER:  | Michael E. Noe, Jr.                                  |               |  |                     |                 |                      |                |             |            |                |             |              |         |

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**PATENT**  
**REEL: 023666 FRAME: 0145**

Total Attachments: 2

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## ASSIGNMENT FOR PATENT APPLICATION

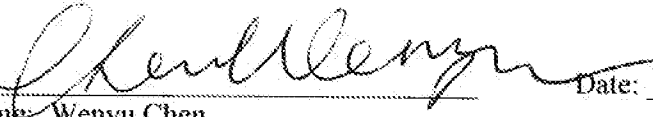
Whereas, we the undersigned inventors have invented certain improvements as set forth in the patent application entitled:

### 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: Liesl Folks
- 4) Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Typed Name: Bruce Terris

## ASSIGNMENT FOR PATENT APPLICATION

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- 1) Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Typed Name: Wenyu Chen
- 2) Signature: Sylvia Florez Date: 12/09/09  
Typed Name: Sylvia Florez Marino
- 3) Signature: [Signature] Date: 12/09/09  
Typed Name: Liesl Folks
- 4) Signature: Bruce Terris Date: 12/10/09  
Typed Name: Bruce Terris