

**PATENT ASSIGNMENT**

Electronic Version v1.1  
 Stylesheet Version v1.1

| <b>SUBMISSION TYPE:</b>   | NEW ASSIGNMENT                                       |               |                |                     |            |                 |            |                      |            |                  |            |            |            |
|---|--|---------------|----------------|---------------------|------------|-----------------|------------|----------------------|------------|------------------|------------|------------|------------|
| <b>NATURE OF CONVEYANCE:</b>  | ASSIGNMENT   |               |                |                     |            |                 |            |                      |            |                  |            |            |            |
| <b>CONVEYING PARTY DATA</b>   |  |               |                |                     |            |                 |            |                      |            |                  |            |            |            |
| <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>Ryohheita HATTORI</td> <td>08/03/2009</td> </tr> <tr> <td>Masaki YOSHIOKA</td> <td>08/03/2009</td> </tr> <tr> <td>Suthasun THAMBIRAJAH</td> <td>08/03/2009</td> </tr> <tr> <td>Minoru HASHIMOTO</td> <td>08/03/2009</td> </tr> <tr> <td>Kei YASUNA</td> <td>08/03/2009</td> </tr> </tbody> </table> |  | Name          | Execution Date | Ryohheita HATTORI   | 08/03/2009 | Masaki YOSHIOKA | 08/03/2009 | Suthasun THAMBIRAJAH | 08/03/2009 | Minoru HASHIMOTO | 08/03/2009 | Kei YASUNA | 08/03/2009 |
| Name  | Execution Date                                       |               |                |                     |            |                 |            |                      |            |                  |            |            |            |
| Ryohheita HATTORI   | 08/03/2009   |               |                |                     |            |                 |            |                      |            |                  |            |            |            |
| Masaki YOSHIOKA   | 08/03/2009   |               |                |                     |            |                 |            |                      |            |                  |            |            |            |
| Suthasun THAMBIRAJAH  | 08/03/2009   |               |                |                     |            |                 |            |                      |            |                  |            |            |            |
| Minoru HASHIMOTO  | 08/03/2009   |               |                |                     |            |                 |            |                      |            |                  |            |            |            |
| Kei YASUNA  | 08/03/2009   |               |                |                     |            |                 |            |                      |            |                  |            |            |            |
| <b>RECEIVING PARTY DATA</b>   |  |               |                |                     |            |                 |            |                      |            |                  |            |            |            |
| <b>Name:</b>  | HITACHI GLOBAL STORAGE TECHNOLOGIES NETHERLANDS B.V. |               |                |                     |            |                 |            |                      |            |                  |            |            |            |
| <b>Street Address:</b>  | Locatellikade 1, Parnassustoren                      |               |                |                     |            |                 |            |                      |            |                  |            |            |            |
| <b>City:</b>  | Amsterdam  |               |                |                     |            |                 |            |                      |            |                  |            |            |            |
| <b>State/Country:</b>   | NETHERLANDS  |               |                |                     |            |                 |            |                      |            |                  |            |            |            |
| <b>Postal Code:</b>   | 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>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12538039</td> </tr> </tbody> </table>   |  | Property Type | Number         | Application Number: | 12538039   |                 |            |                      |            |                  |            |            |            |
| Property Type   | Number   |               |                |                     |            |                 |            |                      |            |                  |            |            |            |
| Application Number:   | 12538039   |               |                |                     |            |                 |            |                      |            |                  |            |            |            |
| <b>CORRESPONDENCE DATA</b>  |  |               |                |                     |            |                 |            |                      |            |                  |            |            |            |
| <b>Fax Number:</b>  | (831)722-2350  |               |                |                     |            |                 |            |                      |            |                  |            |            |            |
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| <b>Phone:</b>   | 408-377-0500   |               |                |                     |            |                 |            |                      |            |                  |            |            |            |
| <b>Email:</b>   | bdinapoli@wagnerblecher.com                          |               |                |                     |            |                 |            |                      |            |                  |            |            |            |
| <b>Correspondent Name:</b>  | Wagner Blecher LLP                                   |               |                |                     |            |                 |            |                      |            |                  |            |            |            |
| <b>Address Line 1:</b>  | 123 Westridge Drive                                  |               |                |                     |            |                 |            |                      |            |                  |            |            |            |
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| <b>ATTORNEY DOCKET NUMBER:</b>  | HJP920080033US1                                      |               |                |                     |            |                 |            |                      |            |                  |            |            |            |
| <b>NAME OF SUBMITTER:</b>   | Desiree Chavez                                       |               |                |                     |            |                 |            |                      |            |                  |            |            |            |

**CH \$40.00 12538039**

Total Attachments: 1

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## ASSIGNMENT FOR PATENT APPLICATION

Whereas, I/we the undersigned inventor(s) have invented certain improvements as set forth in the patent application entitled:

**METHOD FOR WRITING SERVO PATTERNS AND DISK DRIVE INCLUDING A CONTROLLER FOR WRITING SERVO PATTERNS ACCORDING TO THE METHOD**

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 therefore;

Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, I/we, the above named, 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 my (our) signature(s).

- 1) Signature:   
Typed Name: Ryohei HATTORI Date: Aug. 3, 2009
- 2) Signature:   
Typed Name: Masaki YOSHIOKA Date: Aug. 3, 2009
- 3) Signature:   
Typed Name: Suthasan THAMBIRAJAH Date: Aug. 3, 2009
- 4) Signature:   
Typed Name: Minoru HASHIMOTO Date: Aug. 3, 2009
- 5) Signature: 安那 浩  
Typed Name: Kei YASUNA Date: Aug. 3, 2009