

# 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>Satoru OOKUBO</td> <td>08/19/2009</td> </tr> <tr> <td>Hidekazu KOHIRA</td> <td>08/19/2009</td> </tr> <tr> <td>Kiyoshi HASHIMOTO</td> <td>08/19/2009</td> </tr> <tr> <td>Jianhua LI</td> <td>08/24/2009</td> </tr> </tbody> </table> |                                                      | Name          | Execution Date                                       | Satoru OOKUBO       | 08/19/2009                      | Hidekazu KOHIRA | 08/19/2009 | Kiyoshi HASHIMOTO | 08/19/2009  | Jianhua LI   | 08/24/2009 |
| Name                                                                                                                                                                                                                                                                                                                                                                                                                              | Execution Date                                       |               |                                                      |                     |                                 |                 |            |                   |             |              |            |
| Satoru OOKUBO                                                                                                                                                                                                                                                                                                                                                                                                                     | 08/19/2009                                           |               |                                                      |                     |                                 |                 |            |                   |             |              |            |
| Hidekazu KOHIRA                                                                                                                                                                                                                                                                                                                                                                                                                   | 08/19/2009                                           |               |                                                      |                     |                                 |                 |            |                   |             |              |            |
| Kiyoshi HASHIMOTO                                                                                                                                                                                                                                                                                                                                                                                                                 | 08/19/2009                                           |               |                                                      |                     |                                 |                 |            |                   |             |              |            |
| Jianhua LI                                                                                                                                                                                                                                                                                                                                                                                                                        | 08/24/2009                                           |               |                                                      |                     |                                 |                 |            |                   |             |              |            |
| <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, 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, Parnassustoren | City:           | Amsterdam  | State/Country:    | NETHERLANDS | Postal Code: | 1076 AZ    |
| Name:                                                                                                                                                                                                                                                                                                                                                                                                                             | HITACHI GLOBAL STORAGE TECHNOLOGIES NETHERLANDS B.V. |               |                                                      |                     |                                 |                 |            |                   |             |              |            |
| Street Address:                                                                                                                                                                                                                                                                                                                                                                                                                   | Locatellikade 1, 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>12549300</td> </tr> </tbody> </table>                                                                                                                                                                 |                                                      | Property Type | Number                                               | Application Number: | 12549300                        |                 |            |                   |             |              |            |
| Property Type                                                                                                                                                                                                                                                                                                                                                                                                                     | Number                                               |               |                                                      |                     |                                 |                 |            |                   |             |              |            |
| Application Number:                                                                                                                                                                                                                                                                                                                                                                                                               | 12549300                                             |               |                                                      |                     |                                 |                 |            |                   |             |              |            |
| <b>CORRESPONDENCE DATA</b>                                                                                                                                                                                                                                                                                                                                                                                                        |                                                      |               |                                                      |                     |                                 |                 |            |                   |             |              |            |
| <p>Fax Number: (831)722-2350<br/> <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 408-377-0500</p> <p>Email: bdinapoli@wagnerblecher.com</p> <p>Correspondent Name: HITACHI C/O WAGNER BLECHER LLP</p> <p>Address Line 1: 123 WESTRIDGE DRIVE</p> <p>Address Line 4: WATSONVILLE, CALIFORNIA 95076</p>                                                                         |                                                      |               |                                                      |                     |                                 |                 |            |                   |             |              |            |
| ATTORNEY DOCKET NUMBER:                                                                                                                                                                                                                                                                                                                                                                                                           | HJP920080023US1                                      |               |                                                      |                     |                                 |                 |            |                   |             |              |            |
| NAME OF SUBMITTER:                                                                                                                                                                                                                                                                                                                                                                                                                | Desiree Chavez                                       |               |                                                      |                     |                                 |                 |            |                   |             |              |            |
| <p>Total Attachments: 1<br/>         source=HJP920080023US1_ASSG#page1.tif</p>                                                                                                                                                                                                                                                                                                                                                    |                                                      |               |                                                      |                     |                                 |                 |            |                   |             |              |            |

CH \$40.00 12549300

**PATENT**

**500948388**

**REEL: 023160 FRAME: 0014**

## ASSIGNMENT FOR PATENT APPLICATION

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

HEAD-SLIDER, HEAD-ARM ASSEMBLY INCLUDING THE HEAD-SLIDER, AND HARD-DISK DRIVE  
INCLUDING THE HEAD-ARM ASSEMBLY INCLUDING THE HEAD-SLIDER

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: Satoru Ookubo Date: 09/08/19  
Typed Name: Satoru OOKUBO
- 2) Signature: Hidekazu Kohira Date: 09/08/19  
Typed Name: Hidekazu KOHIRA
- 3) Signature: Kiyoshi Hashimoto Date: 09/08/19  
Typed Name: Kiyoshi HASHIMOTO
- 4) Signature: Jianhua Li Date: 09/08/24  
Typed Name: Jianhua LI