

## PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT								
NATURE OF CONVEYANCE:	ASSIGNMENT								
CONVEYING PARTY DATA									
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Yohsuke ISHII</td> <td>11/09/2011</td> </tr> <tr> <td>Takaki NAKAMURA</td> <td>11/09/2011</td> </tr> <tr> <td>Kazuhito YOKOI</td> <td>11/09/2011</td> </tr> </tbody> </table>		Name	Execution Date	Yohsuke ISHII	11/09/2011	Takaki NAKAMURA	11/09/2011	Kazuhito YOKOI	11/09/2011
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Yohsuke ISHII	11/09/2011								
Takaki NAKAMURA	11/09/2011								
Kazuhito YOKOI	11/09/2011								
RECEIVING PARTY DATA									
Name:	HITACHI SOLUTIONS, LTD.								
Street Address:	4-12-7, Higashishinagawa, Shinagawa-ku								
City:	Tokyo								
State/Country:	JAPAN								
Postal Code:	140-0002								
PROPERTY NUMBERS Total: 1									
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13389473</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13389473				
Property Type	Number								
Application Number:	13389473								
CORRESPONDENCE DATA									
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Phone:	703-684-1120								
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ATTORNEY DOCKET NUMBER:	H&A-7990								
NAME OF SUBMITTER:	Shrinath Malur								
Total Attachments: 2 source=HA-7990-Assign#page1.tif source=HA-7990-Assign#page2.tif									

CH \$40.00 13389473

Attorney's Docket No.: \_\_\_\_\_

**Assignment of Application**

WHEREAS, I (WE) \_\_\_\_\_

**Yohsuke ISHII, Takaki NAKAMURA and Kazuhito YOKOI** of all**c/o Systems Development Laboratory, HITACHI, LTD.,****1099, Ozenji, Asao-ku, Kawasaki-shi, Kanagawa 215-0013 Japan** \_\_\_\_\_, respectively,

have invented certain new and useful improvements in: \_\_\_\_\_

**DATA STORAGE DEVICE WITH DUPLICATE ELIMINATION FUNCTION****AND CONTROL DEVICE FOR CREATING SEARCH INDEX****FOR THE DATA STORAGE DEVICE**

for which an application for Letters Patent was executed on \_\_\_\_\_

(Application No. **PCT/JP2009/064297** \_\_\_\_\_, filed **August 13, 2009** \_\_\_\_\_), andWHEREAS, **Hitachi Solutions, Ltd.** \_\_\_\_\_

(hereinafter referred to as "ASSIGNEE") having a place of business at: \_\_\_\_\_

**4-12-7, Higashishinagawa, Shinagawa-ku, Tokyo 140-0002 Japan**

is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;

NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I (WE), by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.

I (WE) hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any official of any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my (our) entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its (his) successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me (us) had this Assignment and sale not been made.

Further, I (WE) agree that I (WE) will communicate to said ASSIGNEE or its legal representatives and assigns covenant and any facts known to me (us) respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letter Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.

The undersigned hereby grant(s) the firm of **MATTINGLY & MALUR, P.C.** of 1800 Diagonal Road, Suite 370, Alexandria, Virginia 22314 U.S.A. the power to insert on this assignment any further identification, including the application number and filing date, which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

Date: Nov. 9, 2011 Yohsuke Ishii  
 (Signature of inventor) **Yohsuke ISHII**

Date: Nov. 9, 2011 Takaki Nakamura  
 (Signature of inventor) **Takaki NAKAMURA**

Date: Nov. 10, 2011 Kazuhito Yokoi  
 (Signature of inventor) **Kazuhito YOKOI**