

PATENT ASSIGNMENT COVER SHEET

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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>SHINGO TAKEDA</td> <td>09/11/2013</td> </tr> <tr> <td>NAOAKI KAWANA</td> <td>09/12/2013</td> </tr> </tbody> </table>		Name	Execution Date	SHINGO TAKEDA	09/11/2013	NAOAKI KAWANA	09/12/2013				
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RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>KABUSHIKI KAISHA TOSHIBA</td> </tr> <tr> <td>Street Address:</td> <td>1-1, SHIBAURA 1-CHOME</td> </tr> <tr> <td>City:</td> <td>MINATO-KU, TOKYO</td> </tr> <tr> <td>State/Country:</td> <td>JAPAN</td> </tr> <tr> <td>Postal Code:</td> <td>105-8001</td> </tr> </table>		Name:	KABUSHIKI KAISHA TOSHIBA	Street Address:	1-1, SHIBAURA 1-CHOME	City:	MINATO-KU, TOKYO	State/Country:	JAPAN	Postal Code:	105-8001
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Application Number:	14022596										
CORRESPONDENCE DATA											
<p>Fax Number: (949)760-9502</p> <p>Phone: 9497600404</p> <p>Email: efilng@knobbe.com</p> <p><i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i></p> <p>Correspondent Name: KNOBBE, MARTENS, OLSON & BEAR LLP</p> <p>Address Line 1: 2040 MAIN STREET</p> <p>Address Line 2: 14TH FLOOR</p> <p>Address Line 4: IRVINE, CALIFORNIA 92614</p>											
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Signature:	/Jacob Peterson/										
Date:	10/28/2013										
<p>Total Attachments: 2</p> <p>source=ASSIGNMENT#page1.tif</p> <p>source=ASSIGNMENT#page2.tif</p>											

OP \$40.00 14022596

ASSIGNMENT

AGG066333-USA-A
(13S0623)

In consideration of value received, I, having a residence as stated below above my name, the sole inventor (if only one name is listed below) or a joint inventor (if plural inventors are listed below) of an invention described in an application for United States patent entitled:

DISK STORAGE APPARATUS AND METHOD FOR MANAGING STORAGE AREA

have sold and assigned and do hereby sell and assign to
KABUSHIKI KAISHA TOSHIBA
a Japanese corporation, having a business address at
1-1, Shibaura 1-chome, Minato-ku, Tokyo 105-8001, Japan

its successors, assigns or nominees, hereinafter referred to as "Assignee", my entire right, title and interest in and to said invention as disclosed, shown and described in said United States patent application:

(check one) ☐ executed concurrently herewith
☐ executed on ;
☒ Application No. 14/022596 , filed 10-SEP-2013 ;

and in and to all applications for patent and patents for invention including all divisions, reissues, continuations, substitutes and extensions thereof and all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property, including rights of priority, resulting from the filing of any of said applications; and I authorize and request any official whose duty is to issue patents, to issue any patent on said invention or resulting therefrom to said Assignee, and I agree that on request and without further consideration, but at the expense of said Assignee, I will communicate to said Assignee or its representatives all facts known to me respecting said invention and testify in any legal proceedings, sign all lawful papers, execute all divisional, continuing, continued prosecution, reissue, or other applications, make all rightful oaths and declarations, and generally do everything possible to aid said Assignee to obtain and enforce proper patent protection for said invention.

I hereby grant the following law firm the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the Rules of the U.S. Patent and Trademark Office for recordation of this document.

Mr. Irfan Lateef, Knobbe, Martens, Olson & Bear LLP, 2040 Main Street, 14th Floor, Irvine, CA 92614

ASSIGNMENT

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(13S0623)

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Sept 11, 2013

Date:

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Naoaki Kawana

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Date: