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PATENT ASSIGNMENT COVER SHEET

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CONVEYING PARTY DATA						
Name			Execution Date			
SHINGO TAKEDA			09/11/2013			
NAOAKI KAWANA			09/12/2013			
RECEIVING PARTY DATA						
Name:	KABUSHIKI KAISHA TOSHIBA					
Street Address:	dress: 1-1, SHIBAURA 1-CHOME					

PROPERTY NUMBERS Total: 1

City:

State/Country:

Postal Code:

Property Type	Number
Application Number:	14022596

CORRESPONDENCE DATA

 Fax Number:
 (949)760-9502

 Phone:
 9497600404

 Email:
 efiling@knobbe.com

Correspondence will be sent via US Mail when the email attempt is unsuccessful.

Correspondent Name: KNOBBE, MARTENS, OLSON & BEAR LLP

MINATO-KU, TOKYO

JAPAN 105-8001

Address Line 1: 2040 MAIN STREET Address Line 2: 14TH FLOOR

Address Line 4: IRVINE, CALIFORNIA 92614

ATTORNEY DOCKET NUMBER:	SSTOSH.084AUS
NAME OF SUBMITTER:	JACOB PETERSON
Signature:	/Jacob Peterson/
Date:	10/28/2013

Total Attachments: 2

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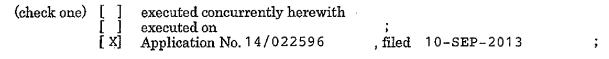
> PATENT REEL: 031492 FRAME: 0013

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:



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

PATENT REEL: 031492 FRAME: 0014

ASSIGNMENT

AGG066333-USA-A (13S0623)

[1st Inventor]
Residence Address: Yokohama-shi, Japan
Mailing Address: c/o Intellectual Property Division, Toshiba Corporation, 1-1, Shibaura 1-chome,
Minato-ku, Tokyo 105-8001, Japan
Citizenship: Japan

Shingo Takeda

Sept //, 20/3

Date:

[2nd Inventor]
Residence Address: Yokohama-shi, Japan
Mailing Address: c/o Intellectual Property Division, Toshiba Corporation, 1-1, Shibaura 1-chome,
Minato-ku, Tokyo 105-8001, Japan
Citizenship: Japan

Citizenship: Japan

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