## PATENT ASSIGNMENT

# Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE: NEW ASSIGNMENT

NATURE OF CONVEYANCE: ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
Toshiba Storage Device Corporation	01/13/2012

#### **RECEIVING PARTY DATA**

Name:	Kabushiki Kaisha Toshiba	
Street Address:	1-1, Shibaura 1-chome	
Internal Address:	Minato-ku	
City:	Tokyo	
State/Country:	state/Country: JAPAN	
Postal Code:	105-8001	

### PROPERTY NUMBERS Total: 12

Property Type	Number
Application Number:	12667849
Application Number:	12770526
Application Number:	12753029
Application Number:	12761838
Application Number:	12687750
Application Number:	12687745
Application Number:	12700258
Application Number:	12726270
Application Number:	12726324
Patent Number:	8094398
Application Number:	12750569
Patent Number:	8018674

#### **CORRESPONDENCE DATA**

PATENT REEL: 027650 FRAME: 0025 OP \$480.00 12667849

 Fax Number:
 (949)760-9502

 Phone:
 949-760-0404

 Email:
 efiling@kmob.com

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

via US Mail.

Correspondent Name: Knobbe, Martens, Olson & Bear, LLP

Address Line 1: 2040 Main Street, 14th Floor Address Line 4: Irvine, CALIFORNIA 92614

ATTORNEY DOCKET NUMBER: SUTSDC.011APC & 11 OTHERS

NAME OF SUBMITTER: Irfan A. Lateef

Total Attachments: 3

source=Assignment#page1.tif source=Assignment#page2.tif source=Assignment#page3.tif

#### **ASSIGNMENT**

WHEREAS, Toshiba Storage Device Corporation, a corporation having offices at 2-9, Suehiro-Cho, Ome, Tokyo 198-8710, Japan (hereinafter "ASSIGNOR"), represents and warrants that it is the sole owner of the entire right, title, and interest to certain new and useful improvements for which ASSIGNOR has filed the following United States applications for Letters Patents in the United States (hereinafter "the Patent Applications"):

Application No.	Filing Date	<u>Title</u>	Attorney Docket
12/667,849	January 5, 2010	STORAGE DEVICE, CONTROL METHOD AND CONTROLLER	SUTSDC.001APC
12/770,526	April 29, 2010	SYSTEM FOR ADJUSTING THE PRESSURE OF A HEAD ON AN INFORMATION STORAGE MEDIUM OF A DISK DEVICE	SUTSDC.032C1
12/753,029	April 1, 2010	STORAGE DEVICE AND DESIGN METHOD THEREOF	SUTSDC.025C1
12/761,838	April 16, 2010	STORAGE DEVICE CONFIGURED TO TRANSMIT DATA VIA FIBRE CHANNEL LOOP	SUTSDC.029C1
12/687,750	January 14, 2010	INFORMATION STORAGE APPARATUS, METHOD FOR CORRECTING FEED PITCH OF READ/WRITE HEAD, AND METHOD FOR FORMING SERVO PATTERN	SUTSDC.002AUS
12/687,745	January 14, 2010	INFORMATION STORAGE APPARATUS, ADJUSTMENT APPARATUS THEREOF, AND METHOD FOR FORMING SERVO PATTERN	SUTSDC.003AUS
12/700,258	February 4, 2010	COMMUNICATION INTERFACE CIRCUIT, ELECTRONIC DEVICE, AND COMMUNICATION METHOD	SUTSDC.005AUS

12/726,270	March 17, 2010	MAGNETIC BIT-PATTERNED DISK AND DISK DRIVE	SUTSDC.015AUS
12/726,324	March 17, 2010	METHOD AND APPARATUS FOR MEASURING PHASE SHIFT IN A DISK DRIVE HAVING BIT- PATTERNED MEDIA	SUTSDC.016AUS
12/728,004 (Now U.S. Patent No. 8,094,398)	March 19, 2010	ARRANGEMENT METHOD OF SERVO PATTERN OF PATTERNED MEDIUM, PATTERNED MEDIUM, AND INFORMATION STORAGE DEVICE	SUTSDC.018AUS
12/750,569	March 30, 2010	MAGNETIC HEAD AND INFORMATION STORAGE DEVICE	SUTSDC.023AUS
12/709,391 (Now U.S. Patent No. 8,018,674)	February 19, 2010	DISK DRIVE AND METHOD OF MEASURING FRICTIONAL CHARACTERISTICS	SUTSDC.007C1

WHEREAS, Kabushiki Kaisha Toshiba, a corporation having offices at 1-1, Shibaura 1-Chome, Minato-ku, Tokyo 105-8001, Japan (hereinafter "ASSIGNEE") desires to purchase the entire right, title, and interest in and to the inventions disclosed in the Patent Applications;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR hereby further acknowledges that it has sold, assigned, and transferred, and by these presents does hereby sell, assign, and transfer, unto ASSIGNEE, its successors, legal representatives, and assigns, the entire right, title, and interest throughout the world in, to, and under the said improvements, and the said Patent Applications and all Patents that may be granted thereon, and all provisional applications relating thereto, and all divisions, continuations, reissues, reexaminations, renewals, and extensions thereof, and all rights of priority under International Conventions and applications for Letters Patent that may hereafter be filed for said improvements or for the said Patent Applications in any country or countries foreign to the United States; and ASSIGNOR hereby authorizes and requests the Commissioner of Patents of the United States, and any Official of any country foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said improvements and all Letters Patents resulting from the Patent Applications to ASSIGNEE, its successors, legal representatives, and assigns, in accordance with the terms of this Agreement.

ASSIGNOR does hereby sell, assign, transfer, and convey to ASSIGNEE, its successors, legal representatives, and assigns all claims for damages and all remedies arising out of any violation of the rights assigned hereby that may have accrued prior to the date of assignment to ASSIGNEE, or may accrue hereafter, including, but not limited to, the right to sue for, collect, and retain damages for past infringements of the said Patents before or after issuance;

ASSIGNOR hereby covenants and agrees that it will communicate to ASSIGNEE, its successors, legal representatives, and assigns any facts known to ASSIGNOR respecting the Patent Applications immediately upon becoming aware of those facts, and that it will testify in any legal proceeding involving any of the Patent Applications, will sign all lawful papers, execute all divisional, continuing, and reissue applications, make all rightful oaths, and will generally do everything possible to aid ASSIGNEE, its successors, legal representatives, and assigns to obtain and enforce the Patent Applications in all countries.

IN TESTIMONY WHEREOF, I hereunto	set my hand and seal this/3 day of
Toshiba Storage Device Corporation	Kabushiki Kaisha Toshiba
By: Hirotada Chomei	Ву:
Name Printed: Hirotada Chomei	Name Printed: Hiroshi Miyauchi
Title: Representative Director  Date: Jan. 13 20/2	Title: General Manager, Intellectual Property Division
	Date: Jan. 18, 2012