

PATENT ASSIGNMENT

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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, Minato-ku
City:	Tokyo
State/Country:	JAPAN
Postal Code:	105-8001
PROPERTY NUMBERS Total: 25	
Property Type	Number
Application Number:	12331695
Application Number:	12346548
Application Number:	12481949
Patent Number:	7818479
Patent Number:	7602566
Patent Number:	7665102
Patent Number:	7529058
Patent Number:	7508610
Patent Number:	7561378
Patent Number:	7835104
Patent Number:	7891079
Patent Number:	7889451
Patent Number:	7903366
Patent Number:	7818556
Patent Number:	7697234

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Patent Number:	7548396
Patent Number:	7729078
Patent Number:	7719788
Patent Number:	7839597
Patent Number:	7777979
Patent Number:	7903358
Patent Number:	7817372
Patent Number:	7911729
Patent Number:	7848049
Patent Number:	7859779

CORRESPONDENCE DATA

Fax Number: (312)360-9315

Phone: 312-360-0080

Email: kwhitten@gbclaw.net

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

Correspondent Name: Greer, Burns & Crain, Ltd.

Address Line 1: 300 South Wacker Drive, Suite 2500

Address Line 4: Chicago, ILLINOIS 60606

ATTORNEY DOCKET NUMBER:	4880.82809
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NAME OF SUBMITTER:	Patrick G. Burns
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Total Attachments: 4
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GREER, BURNS & CRAIN, LTD.
300 South Wacker Drive
Suite 2500
Chicago, Illinois 60606

UTILITY PATENT

ASSIGNMENT

WHEREAS, **TOSHIBA STORAGE DEVICE CORPORATION**, a corporation of Japan, with an address of 2-9, Suehiro-Cho, Ome, Tokyo 198-8710, Japan (hereinafter "ASSIGNOR"), is the sole and exclusive owner by assignment of the U.S. Patent Applications identified in Exhibit A hereto and the U.S. Patents identified in Exhibit B hereto.

WHEREAS, **KABUSHIKI KAISHA TOSHIBA**, a corporation of Japan, with an address of 1-1, Shibaura 1-chome, Minato-ku, Tokyo 105-8001, Japan, (hereinafter "ASSIGNEE"), is desirous of acquiring the right, title and interest in, to and under said U.S. Patent Applications (Exhibit A) and U.S. Patents (Exhibit B) and the inventions covered thereby.

NOW, THEREFORE, in consideration of and in exchange for the sum of One Dollar (\$1.00) to it in hand paid by ASSIGNEE and other good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR has sold, assigned, transferred and set over, and does hereby sell, assign, transfer and set over, to ASSIGNEE, the inventions, patents and patent applications aforesaid, and any continuations, divisionals and reissues thereof, the same to be held and enjoyed by ASSIGNEE for its own use and

enjoyment, and for the use and enjoyment of its successors, assigns or legal representatives, to the end of the term or terms for which the said patents are or may be granted or reissued.

ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all Letters Patent of the United States on said inventions or resulting from said applications and any continuations, divisionals and reissues thereof to ASSIGNEE as assignee of the entire interest conveyed herein, and hereby covenants that it has the full right to convey the entire interest herein assigned, and that it has not executed, and will not execute, any agreements inconsistent herewith.

IN WITNESS WHEREOF, **TOSHIBA STORAGE DEVICE CORPORATION** has caused this Patent Assignment to be executed by its duly authorized officer on this 1 st day of April 2011.

TOSHIBA STORAGE DEVICE CORPORATION

Date: Jan. 13 2012

By: Hirofada Chomei
Name: Hirofada Chomei
Title: Representative Director

EXHIBIT A

U.S. PATENT APPLICATIONS

	Application No.	Filing Date	Attorney Docket No.
1)	12/331,695	12-10-2008	4880.82809
2)	12/346,548	12-30-2008	4880.83048
3)	12/481,949	06-10-2009	4880.84977

EXHIBIT B
U.S. PATENTS

	Patent No.	Issue Date	Attorney Docket No.
1	7,818,479	10-19-2010	4880.69695
2	7,602,566	10-13-2009	4880.71404
3	7,665,102	02-16-2010	4880.73824
4	7,529,058	05-05-2009	4880.78657
5	7,508,610	03-24-2009	4880.73372
6	7,561,378	07-14-2009	2803.85127
7	7,835,104	11-16-2010	4880.76147
8	7,891,079	02-22-2011	4880.85189
9	7,889,451	02-15-2011	4880.85595
10	7,903,366	03-08-2011	4880.85499
11	7,818,556	10-19-2010	4880.77206C1
12	7,697,234	04-13-2010	4880.80173
13	7,548,396	06-16-2009	4880.80411
14	7,729,078	06-01-2010	4880.82671
15	7,719,788	05-18-2010	4880.83275
16	7,839,597	11-23-2010	4880.85103
17	7,777,979	08-17-2010	4880.82228
18	7,903,358	03-08-2011	4880.83187
19	7,817,372	10-19-2010	4880.83383
20	7,911,729	03-22-2011	4880.84820
21	7,848,049	12-07-2010	4880.85072
22	7,859,779	12-28-2010	4880.84935