Atty Ref/Docket No.: 2201.032US1

Patent and Trademark Office

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1. Name of conveying party(ies):	2. Name and address of receiving party(ies):

Name: Kabushiki Kaisha Toshiba Toshiba America Information Systems, Inc.

Street Address: 1-1, Shibaura 1-Chome Additional name(s) of conveying party(ies) attached?

Minatoku Tokyo 105-8001 Japan []Yes [X]No

Additional name(s) & address(es) attached? []Yes [X]No 3. Nature of conveyance:

[X] Assignment [] Merger [] Security Agreement [] Change of Name

Execution Date: August 29, 2008

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s)

B. Patent No.(s)

Serial No. 12/052,480, filed March 20, 2008

Additional numbers attached? []Yes [X]No

5. Name and address of party to whom correspondence concerning document should be mailed:

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41):\$ 40.00

Name: Garth Vivier

Address:

Schwegman, Lundberg & Woessner, P.A.

P.O. Box 2938

Minneapolis, MN 55402-0938

[]Enclosed [X] Authorized to be charged to deposit account 19-0743

8. Please charge any additional fees or credit any over payments to our Deposit Account No.: 19-0743

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Garth Vivier/Reg. No. 57,313

09.04.2008

Name of Person Signing

Total number of pages including cover sheet: 4

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents and Trademarks Mail Stop Assignment Recordation Services P.O. Box 1450 Alexandria, VA 22313-1450

ASSIGNMENT

WHEREAS, <u>Toshiba America Information Systems</u>, <u>Inc.</u>, a corporation organized and existing under and by virtue of the laws of the State of California, and having an office and place of business at <u>9740 Irvine Boulevard</u>, <u>Irvine</u>, <u>CA 92618-1697</u> has acquired the entire right, title and interest in and to the inventions, improvements and application and in and to the Letters Patent to be obtained therefor, by virtue of an Assignment from the inventors filed on <u>June 18</u>, <u>2008</u>, together with the Application for United States Letters Patent which application was assigned U.S. patent application serial number <u>12/052,480</u>, and filed on <u>March 20, 2008</u> and is entitled <u>Low Track-Per-Inch (TPI) Zone with Reduced Need for Adjacent-Track-Erasure (ATE)</u>

Kabushiki Kaisha Toshiba

accade 8/29/08 3 under and

AND WHEREAS, <u>Foshiba Corporation</u>, a corporation organized and existing under and by virtue of the laws of Japan, and having an office and place of business at <u>1-1</u>, <u>Shibaura 1-Chome</u>, <u>Minatoku</u>, <u>Tokyo 105-8001 Japan</u> (hereinafter "Assignee"), is desirous of acquiring the entire right, title and interest in and to said inventions, improvements and application and in and to the Letters Patent to be obtained therefor;

NOW, THEREFORE, to all whom it may concern, be it known that for good and valuable consideration, the receipt and sufficiency whereof is hereby acknowledged, we have sold, assigned, and transferred, and by these presents do sell, assign and transfer unto said Assignee, its successors or assigns, the entire right, title and interest for all countries in and to all inventions and improvements disclosed in the aforesaid application, and in and to the said application, all divisions, continuations, continuations-in-part, or renewals thereof, all Letters Patent which may be granted there from, and all reissues or extensions of such patents, and in and to any and all applications which have been or shall be filed in any foreign countries for Letters Patent on the said inventions and improvements, including an assignment of all rights under the provisions of the International Convention, and all Letters Patent of foreign countries which may be granted there from; and we do hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all United States Letters Patent for the aforesaid inventions and improvements to the said Assignee as the assignee of the entire right, title and interest in and to the same, for the use of the said Assignee, its successors and assigns.

AND, for the consideration aforesaid, we do hereby agree that we and our executors and legal representatives will make, execute and deliver any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said Assignee, its successors and representatives all facts known to us relating to said improvements and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable more effectually to secure to and vest in said Assignee, its successors or assigns the entire right, title and interest in and to the said improvements, inventions, applications, Letters Patent, rights, titles, benefits, privileges and advantages hereby sold, assigned and conveyed, or intended so to be.

AND, furthermore, we covenant and agree with said that no assignment, grant, mortgage, license or other agreem herein conveyed has been made to others by us and that full expressed is possessed by us.	lent affecting the rights and property
•	11/1/
DI TESTIMONY WHEREOF, I have hereunto set my ha	and this 13 day or
HULY 2008.	
	-1 /-
XVIII 1	Macerbe
Scott Marcabe	eral Manager, Storage Device Division
STATE OF <u>CALIFORNIA</u>)	
COUNTY OF ORANGE)	
On this 15th day of July 2008 before	e me, Susan Chen, Notary Public,
personally appeared Scott Maccabe, who proved to me on the ba	
person whose name is subscribed to the within instrument and ac	
same in his authorized capacity, and that by his signature on the	instrument the person; or the chuty upor
behalf of which the person acted, executed the instrument.	
I certify under PENALTY OF PERJURY under the laws	s of the State of California that the
foregoing paragraph is true and correct.	
WITNESS my hand and official seal.	
0 01	Commission # 1787993 Notary Public - California Orange County MyConton Bries Ion 3, 2012
Signature of man then	
	(Seal)

ACKNOWLEDGMENT	
State of California	
County of Orange	
On August 29, 2008 before me, Susan Chen, Notary Public, personally appeared	
Con-H Maccoba , who proved to	
me on the basis of satisfactory evidence to be the person(e) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(e) acted, executed the instrument.	
I certify under PENALTY OF PERIURY under the laws of the State of California that the foregoing paragraph is true and correct.	
WITNESS my hand and official seal.	
Signature Guena Chen Orange County My Comm. Spires Ion 3, 2012	
(Seal)	

SCHWEGMAN ■ LUNDBERG ■ WOESSNER

ATENT, TRADEMARK & COPYRIGHT ATTORNEYS

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September 5, 2008

Time: 8:14 AM (Minneapolis, Minn.)

TO:

Commissioner for Patents

Attn: Assignment Recordation Services

Patent Examining Corps

Facsimile Center P.O. Box 1450

Alexandria, VA 22313-1450

FAX NUMBER <u>571-273-0140</u>

FROM: Garth Vivier

OUR REF: 2201.032US1

Documents Transmitted:

Assignment (3 pages), Assignment Recordation Form Cover Sheet (1 page), authorization to charge Deposit Account No. 19-0743 in the amount of \$40.00 to cover the Assignment Recording Fee.

Total pages of this transmission, including cover letter: (5 pgs)

If you do NOT receive all of the pages described above, please telephone us at 612-373-6900 or fax us at 612-339-3061.

In re. Patent Application of: Richard Ehrlich

Examiner:

Serial No.: 12/052,480

Group Art Unit: 2627

Filed: March 20, 2008

Docket No.: 2201.032US1

Title: LOW TRACK-PER-INCH (TPI) ZONE WITH REDUCED NEED FOR ADJACENT-

TRACK-ERASURE (ATE) REFRESH

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Reg. No. 57,313

I hereby certify that this paper is being transmitted by facsimile to the U.S. Patent and Trademark Office

on the date shown below.

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RECORDED: 09/05/2008