PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Kiyoshi Kobayashi	02/22/2008
Tomoo Otsuka	02/22/2008

RECEIVING PARTY DATA

Name:	TDK Corporation	
Street Address:	1-13-1 Nihonbashi, Chuo-ku,	
City:	Tokyo	
State/Country:	JAPAN	
Postal Code:	103-8272	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12038343

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER: 13652-41

NAME OF SUBMITTER: Gustavo Siller, Jr.

Total Attachments: 3

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> PATENT REEL: 020570 FRAME: 0624

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Client/Matter No. 13652-41				
RECORDATION FORM COVER SHEET PATENTS ONLY				
To the Director of the U.S. Patent and Trademark Office: Pleas	e record the attached documents or the new address(es) below:			
1. Name of conveying Party(ies)/Execution Date:	2. Name and Address of receiving Party(ies):			
KIYOSHI KOBAYASHI/FEBRUARY 22, 2008 TOMOO OTSUKA/FEBRUARY 22, 2008	Name: TDK CORPORATION			
	Street Address: 1-13-1 Nihonbashi, Chuo-ku			
Additional name(s) of conveying party(ies) attached?	City: Tokyo			
☐ Yes ⊠ No	Country: Japan Additional name(s) and addresses attached? Yes No			
	The state of the s			
3. Nature of Conveyance: Execution Date(s):February 22, 2008				
☐ Change of Nam	Executive Order 9424, Confirmatory License			
☐ Security Agreement ☐ Merger	☐ Joint Research Agreement			
Government Interest Assignment Other				
 Application or patent number(s). A. Patent Application No.(s) B. Patent No.(s) Additional numbers attached? ☐ Yes ☒ No 				
5. Name and address of party to whom correspon-	6. Total number of applications and patents involved: 1			
dence concerning document should be mailed: BRINKS HOFER GILSON & LIONE P.O. BOX 10395 CHICAGO, IL 60610 (312) 321-4200 (312) 321-4299 Fax	7. Total Fee (37 CFR 1.21(h) & 3.41) \$ 40 Authorized to be charged by credit card Authorized to be charged to Deposit Acct. No. 23-1925 Enclosed None required (government interest not affecting title) 8. Payment Information:			
	a. ☐ Credit Card: Last 4 Numbers Expiration Date b. ☒ Charge fee and/or any Deficiencies to Deposit			
	Account Number 23-1925 Authorized User Name: Brinks Hofer Gilson & Lione			
/Gustavo Siller, Jr./	February 27, 2008			
Signature	Date Total no. of pages including coversheet, attachments and			
Gustavo Siller, Jr. Name of Person Signing	documents:3			
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Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, PO Box 1450, Alexandria, VA 22313-1450

PATENT REEL: 020570 FRAME: 0625

ASSIGNMENT

WHEREAS, Kiyoshi Kobayashi and Tomoo Otsuka

hereinafter called the "Assignors", have made the invention described in the United States patent application entitled

PERPENDICULAR MAGNETIC RECORDING HEAD AND MANUFACTURING METHOD THEREOF

executed by Assignors on the same date as, or on a date prior to, this Assignment;

WHEREAS, TDK Corporation, a corporation organized and existing under the laws of Japan, having a place of business at 1-13-1 Nihonbashi, Chuo-ku, Tokyo 103-8272, Japan, hereinafter called the "Assignee," desires to acquire the entire right, title and interest in and to the invention and the patent application identified above, and all patents which may be obtained for said invention, as set forth below;

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00), and other valuable and legally sufficient consideration, the receipt of which by the Assignors from the Assignce is hereby acknowledged, the Assignors have sold, assigned and transferred, and by these presents do sell, assign and transfer to the Assignee, the entire right, title and interest for the United States in and to the invention and the patent application identified above, and any patents that may issue for said invention in the United States; together with the entire right, title and interest in and to said invention and all patent applications and patents therefor in all countries foreign to the United States, including the full right to claim for any such application all benefits and priority rights under any applicable convention; together with the entire right, title and interest in and to all continuations, divisions, renewals and extensions of any of the patent applications and patents defined above; together with the right to recover all damages, including, but not limited to, a reasonable royalty, by reason of past, present, or future infringement or any other violation of patent or patent application rights; to have and to hold for the sole and exclusive use and benefit of the Assignee, its successors and assigns, to the full end of the term or terms for all such patents.

The Assignors hereby covenant and agree, for both the Assignors and the Assignors' legal representatives, that the Assignors will assist the Assignee in the prosecution of the patent application identified above; in the making and prosecution of any other patent applications that the Assignee may elect to make covering the invention identified above; in vesting in the Assignee like exclusive title in and to all such other patent applications and patents; and in the prosecution of any interference which may arise involving said invention, or any such patent application or patent; and that the Assignors will execute and deliver to the Assignee any and all additional papers which may be requested by the Assignee to carry out the terms of this Assignment.

PATENT REEL: 020570 FRAME: 0626 The Commissioner of Patents and Trademarks is hereby authorized and requested to issue patents to the Assignee in accordance with the terms of this Assignment.

IN TESTIMONY WHEREOF, the Assignors have executed this agreement.

DATE:	February 22, 2008	Inventor: Kiyoshi Kobayashi
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DATE:	7.1	The shi to
	February 22, 2008	Takashi Hato Atsushi Fahanashi
DATE:	February 22, 2008	Atsushi Frahanashi
		. 0
DATE:	February 22, 2008	Tomoo Otsuka
		Inventor: Tomoo Otsuka
WITNESSED:		
DATE:	February 22, 2008	Jakashi Lato
DATE:	February 22, 2008	Takashi Lato Otsushi Fahanashi
DATE:		
		Inventor:
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