

**PATENT ASSIGNMENT**

Electronic Version v1.1  
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

**CONVEYING PARTY DATA**

Name	Execution Date
Eiji Komura	07/22/2010
Tsutomu Chou	07/22/2010
Koji Shimazawa	07/22/2010

**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:	12848422

**CORRESPONDENCE DATA**

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ATTORNEY DOCKET NUMBER:	335001-2118
NAME OF SUBMITTER:	Jeanmarie Spradlin

Total Attachments: 3  
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**OP \$40.00 12848422**

**501250069**

**PATENT  
 REEL: 024773 FRAME: 0897**



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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

<p>1. Name of conveying party(ies)</p> <p align="center">Eiji KOMURA Tsutomu CHOU Koji SHIMAZAWA</p> <p>Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>2. Name and address of receiving party(ies)</p> <p>Name: TDK Corporation Internal Address: Street Address: 1-13-1, Nihonbashi, Chuo-ku City, State, Zip: Tokyo, Japan 103-8272</p> <p>Additional name(s) &amp; address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Security Agreement <input type="checkbox"/> Merger <input type="checkbox"/> Change of Name <input type="checkbox"/> Other</p> <p>Execution Date(s): July 22, 2010</p>	

4. Application number(s) or patent number(s): 12/848,422

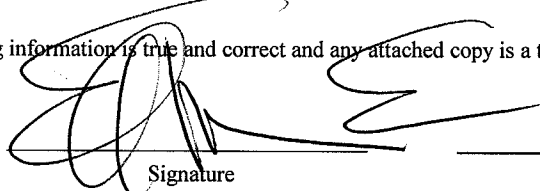
If this document is being filed together with a new application, the execution date of the application is:

Additional numbers attached?  Yes  No

<p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p>Name: Ellen Marcie Emas Internal Address: FROMMER LAWRENCE &amp; HAUG LLP Street Address: 745 FIFTH AVENUE City: NEW YORK State: N.Y. Zip: 10151</p>	<p>6. Total number of applications and patents involved <span style="float:right">1</span></p> <hr/> <p>7. Total fee (37 CFR 3.41) <span style="float:right">\$ 40.00</span> <input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> Authorized to be charged to deposit account 50-0320</p> <hr/> <p>8. Deposit account number: <b>50-0320</b> (Attach duplicate copy of this page if paying by deposit account)</p>
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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.

<p>_____</p> <p align="center">Ellen Marcie Emas</p> <p align="center">Name of Person Signing</p>	 <p>Signature</p>	<p>_____</p> <p align="right">August 2, 2010</p> <p align="right">Date</p> <p align="right">Total number of pages including cover sheet, attachments, and document 3</p>
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# ASSIGNMENT

(JOINT)

THIS ASSIGNMENT, by Eiji KOMURA, Tsutomu CHOU and Koji SHIMAZAWA, all residing at c/o TDK Corporation of 1-13-1, Nihonbashi, Chuo-ku, Tokyo 103-8272, Japan (hereinafter referred to as "the Assignors"), respectively, witnesseth:

WHEREAS, the Assignors have invented certain new and useful improvements in **THERMALLY-ASSISTED MAGNETIC RECORDING HEAD COMPRISING CHARACTERISTIC CLADS**

set forth in an application for Letters Patent of the United States, which is a

- (1)  provisional application
- (a)  bearing Application No. \_\_\_\_\_, and filed on \_\_\_\_\_;
- (b)  to be filed herewith; or
- (2)  non-provisional application
- (a)  bearing Application No. \_\_\_\_\_, and filed on \_\_\_\_\_;
- (b)  having an oath or declaration executed on even date herewith prior to filing of application;
- (c)  having an oath or declaration executed on a different date than this Assignment; and

WHEREAS, TDK Corporation, a corporation duly organized under and pursuant to the laws of Japan and having a principal place of business at 1-13-1, Nihonbashi, Chuo-ku, Tokyo 103-8272, Japan (hereinafter referred to as "the Assignee"), is desirous of acquiring the entire right, title, and interest in and to said inventions, the right to file applications on said inventions and the entire right, title and interest in and to any applications, including provisional applications for Letters Patent of the United States or other countries claiming priority to said application, and in and to any Letters Patent or Patents, United States or foreign, to be obtained therefore and thereon.

NOW, THEREFORE, for good and sufficient consideration, the receipt of which is hereby acknowledged, the Assignors have sold, assigned, transferred, and set over, and by these presents do sell, assign, transfer, and set over, unto the Assignee, its successors, legal representatives, and assigns the entire right, title, and interest in and to the above-mentioned inventions, the right to file applications on said inventions and the entire right, title and interest in and to any applications for Letters Patent of the United States or other countries claiming priority to said applications, and any and all Letters Patent or Patents of the United States of America and all foreign countries that may be granted therefore and thereon, and in and to any and all applications claiming priority to said applications, divisions, continuations, and continuations-in-part of said applications, and reissues and extensions of said Letters Patent or Patents, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by the Assignee, for its own use and behoof and the use and behoof of its successors, legal representatives, and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted as fully and entirely as the same would have been held and enjoyed by the Assignors had this sale and assignment not been made;

AND for the same consideration, the Assignors hereby covenant and agree to and with the Assignee, its successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, the Assignors are the sole and lawful owners of the entire right, title, and interest in and to the inventions set forth in said applications and said applications, including provisional applications, above-mentioned, and that the same are unencumbered, and that the Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth;

AND for the same consideration, the Assignors hereby covenant and agree to and with the Assignee, its successors, legal representatives, and assigns that the Assignors will, whenever counsel of the Assignee, or the counsel of its successors, legal representatives, and assigns, shall advise that any proceeding in connection with said inventions or said applications for Letters Patent or Patents, or any proceeding in connection with Letters Patent or Patents for said inventions in any country, including interference proceedings, is lawful and desirable, or that any application claiming priority to said application, division, continuation, or continuation-in-part of any applications for Letters Patent or Patents, or any reissue or extension of any Letters Patent or Patents to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement, and defense of Letters Patent or Patents for said inventions, without charge to the Assignee, its successors, legal representatives, and assigns, but at the cost and expense of the Assignee, its successors, legal representatives, and assigns;

AND the Assignors hereby authorize and request the attorneys of Frommer Lawrence & Haug LLP to insert in the spaces provided above the title of the invention, filing date, application number, and attorney's docket number of said application when known.

AND the Assignors hereby request the Commissioner of Patents to issue any and all said Letters Patent of the United States to the Assignee as the Assignee of said inventions, the Letters Patent to be issued for the sole use and behoof of the Assignee, its successors, legal representatives, and assigns.

DATE July 22, 2010

*Eiji Homura*

DATE July 22, 2010

*Tsutomu Chou*

DATE July 22, 2010

*Koji Shimazawa*