

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT																
NATURE OF CONVEYANCE:	ASSIGNMENT																
CONVEYING PARTY DATA																	
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Kazumasa Nishimura</td><td>01/31/2008</td></tr><tr><td>Yosuke Ide</td><td>01/31/2008</td></tr><tr><td>Naoya Hasegawa</td><td>01/31/2008</td></tr><tr><td>Masamichi Saito</td><td>01/31/2008</td></tr><tr><td>Yoshihiro Nishiyama</td><td>01/31/2008</td></tr><tr><td>Ryo Nakabayashi</td><td>01/31/2008</td></tr><tr><td>Hidekazu Kobayashi</td><td>01/31/2008</td></tr></tbody></table>	Name	Execution Date	Kazumasa Nishimura	01/31/2008	Yosuke Ide	01/31/2008	Naoya Hasegawa	01/31/2008	Masamichi Saito	01/31/2008	Yoshihiro Nishiyama	01/31/2008	Ryo Nakabayashi	01/31/2008	Hidekazu Kobayashi	01/31/2008	
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<table border="1"><tr><td>Name:</td><td>TDK Corporation</td></tr><tr><td>Street Address:</td><td>1-13-1 Nihonbashi, Chuo-ku</td></tr><tr><td>City:</td><td>Tokyo</td></tr><tr><td>State/Country:</td><td>JAPAN</td></tr><tr><td>Postal Code:</td><td>103-8272</td></tr></table>	Name:	TDK Corporation	Street Address:	1-13-1 Nihonbashi, Chuo-ku	City:	Tokyo	State/Country:	JAPAN	Postal Code:	103-8272							
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CORRESPONDENCE DATA																	
Fax Number: (312)321-4299 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>																	
Email: cbrady@usebrinks.com																	
Correspondent Name: Brinks Hofer Gilson & Lione																	
Address Line 1: P.O. Box 10395																	
Address Line 4: Chicago, ILLINOIS 60610																	
ATTORNEY DOCKET NUMBER:	13650-49																
NAME OF SUBMITTER:	Gustavo Siller, Jr.																

PATENT

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REEL: 020554 FRAME: 0550

CH \$40.00 12036513

Total Attachments: 4

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PATENT

REEL: 020554 FRAME: 0551

RECORDATION FORM COVER SHEET PATENTS ONLY

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below:

1. Name of conveying Party(ies)/Execution Date:

KAZUMASA NISHIMURA/JANUARY 31, 2008
 YOSUKE IDE/JANUARY 31, 2008
 NAOYA HASEGAWA/JANUARY 31, 2008
 MASAMICHI SAITO/JANUARY 31, 2008
 YOSHIHIRO NISHIYAMA/JANUARY 31, 2008
 RYO NAKABAYASHI/JANUARY 31, 2008
 HIDEKAZU KOBAYASHI/JANUARY 31, 2008

Additional name(s) of conveying party(ies) attached?

☐ Yes ☒ No

2. Name and Address of receiving Party(ies):

Name: TDK CORPORATION
 Street Address: 1-13-1 Nihonbashi, Chuo-ku
 City: Tokyo
 Country: Japan

Additional name(s) and addresses attached? ☐ Yes ☒ No

3. Nature of Conveyance:

Execution Date(s): January 31, 2008

- ☒ Assignment ☐ Change of Name ☐ Executive Order 9424, Confirmatory License
☐ Security Agreement ☐ Merger ☐ Joint Research Agreement
☐ Government Interest Assignment ☐ Other _____

4. Application or patent number(s).

☒ This document is being filed together with a new application.

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☐ No

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

BRINKS HOFER GILSON & LIONE
 P.O. BOX 10395
 CHICAGO, IL 60610
 (312) 321-4200
 (312) 321-4299 Fax

6. Total number of applications and patents involved: 1

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
☐ 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 25, 2008

Signature

Date

Gustavo Siller, Jr.

Total no. of pages including coversheet, attachments and documents: 4

Name of Person Signing

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

ASSIGNMENT

WHEREAS, Kazumasa Nishimura, Yosuke Ide, Naoya Hasegawa,
Masamichi Saito, Yoshihiro Nishiyama, Ryo Nakabayashi and Hidekazu Kobayashi
hereinafter called the "Assignors", have made the invention described in the United States
patent application entitled
TUNNELING MAGNETIC SENSING ELEMENT AND METHOD FOR PRODUCING SAME

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 Assignee 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.

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: January 31, 2008

Kazumasa Nishimura
Inventor: Kazumasa Nishimura

WITNESSED:

DATE: January 31, 2008

Takashi Sato

DATE: January 31, 2008

Nobuhiko Hayashi

DATE: January 31, 2008

Yosuke Ide
Inventor: Yosuke Ide

WITNESSED:

DATE: January 31, 2008

Takashi Sato

DATE: January 31, 2008

Nobuhiko Hayashi

DATE: January 31, 2008

Naoya Hasegawa
Inventor: Naoya Hasegawa

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Masamichi Saito
Inventor: Masamichi Saito

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Inventor: Yoshihiro Nishiyama

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Ryo Nakabayashi
Inventor: Ryo Nakabayashi

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Inventor: Hidekazu Kobayashi

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Nobuhiko Hayashi

DATE: _____

Inventor: _____

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