

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Yoshihiko FUJI	02/26/2008
Hideaki FUKUZAWA	02/26/2008
Hiromi YUASA	02/26/2008
Kunliang ZHANG	03/03/2008
Min LI	03/03/2008
Michiko HARA	02/26/2008
Yoshinari KUROSAKI	02/26/2008

RECEIVING PARTY DATA

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City:	Minato-ku, Tokyo
State/Country:	JAPAN
Postal Code:	105-8001

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City:	Chuo-ku, Tokyo
State/Country:	JAPAN
Postal Code:	103-8272

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13740983

CORRESPONDENCE DATA

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OP \$40.00 13740983

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ATTORNEY DOCKET NUMBER:	MJS-4770-48
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NAME OF SUBMITTER:	Michael J. Shea
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Total Attachments: 4
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source=4770_48_1_14_13_assignment#page4.tif

ASSIGNMENT OF PATENT APPLICATION

- (Inventors) 1) Yoshihiko FUJI of Kawasaki-shi, Kanagawa-ken, Japan;
2) Hideaki FUKUZAWA of Kawasaki-shi, Kanagawa-ken, Japan;
3) Hiromi YUASA of Kawasaki-shi, Kanagawa-ken, Japan;
4) Kunliang ZHANG of Milpitas, California, USA;
5) Min LI of Milpitas, California, USA;
6) Michiko HARA of Yokohama-shi, Kanagawa-ken, Japan; and
7) Yoshinari KUROSAKI of Kawasaki-shi, Kanagawa-ken, Japan

* 13-1, Nihonbashi 1-chome, Chuo-ku, Tokyo

In consideration of the sum of one dollar (\$1.00) and other good and valuable considerations paid to each of the undersigned, the undersigned agree(s) to assign, and hereby does assign, transfer and set over to

103-8272

Japan

- (Assignee) 1) KABUSHIKI KAISHA TOSHIBA and 2) TDK CORPORATION

- (Address) (of 1) 1-1, Shibaura 1-chome, Minato-ku, Tokyo 105-8001 Japan; and 2)*

(Other Countries) (hereinafter designated as the Assignee) the undersigned's entire right, title and interest for the United States, its territories, dependencies and possessions, and for the country of (in the invention, and all application(s) for patent and any Letters Patent which may be granted therefor, known as MAGNETO-RESISTANCE EFFECT ELEMENT, AND METHOD FOR (Title) (Case No. -) MANUFACTURING THE SAME

for which the undersigned has (have) executed on even date herewith an application for patent in the United States of America or, if not on even date, then has executed (on or has already filed in

(U.S. appln. Serial No. , filed on).

The undersigned acknowledges an obligation of assignment of this invention to said assignee at the time the invention was made.

The undersigned agree(s) to execute all papers and documents necessary in connection with the application or any interference which may be declared and any continuing or divisional applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient and further to perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.

The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patent of the United States resulting from said application or any division or divisions or continuing applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the firm of NIXON & VANDERHYE P.C. the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent Office for recordation of this document. It is understood and agreed that ASSIGNEE'S attorneys Nixon & Vanderhye P.C. have represented only ASSIGNEE and will continue to represent only ASSIGNEE with respect to this invention.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned signature(s).

Date	<u>Feb. ^{26, 2008} 28, 2008</u>	Signature of inventor	(<u>Yoshihiko Fuji</u> Yoshihiko FUJI
Date	<u>Feb. 26, 2008</u>	Signature of inventor	(<u>Hideaki Fukuzawa</u> Hideaki FUKUZAWA
Date	<u>Feb. 26, 2008</u>	Signature of inventor	(<u>Hiromi Yuasa</u> Hiromi YUASA
Date	_____	Signature of inventor	(_____ Kunliang ZHANG
Date	_____	Signature of inventor	(_____ Min LI
Date	<u>Feb. 26, 2008</u>	Signature of inventor	(<u>Michiko Hara</u> Michiko HARA
Date	<u>Feb. 26, 2008</u>	Signature of inventor	(<u>Yoshinari Kurosaki</u> Yoshinari KUROSAKI
Date	_____	Signature of inventor	(_____
Date	_____	Signature of inventor	(_____
Date	_____	Signature of inventor	(_____
Date	_____	Signature of inventor	(_____

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 signature(s).

Date _____	Signature of inventor	(_____ Yoshihiko FUJI
Date _____	Signature of inventor	(_____ Hideaki FUKUZAWA
Date _____	Signature of inventor	(_____ Hiromi YUASA
Date <u>March 3, 2008</u>	Signature of inventor	(_____ Kunliang ZHANG
Date <u>March 3, 2008</u>	Signature of inventor	(_____ Min LI
Date _____	Signature of inventor	(_____ Michiko HARA
Date _____	Signature of inventor	(_____ Yoshinari KUROSAKI
Date _____	Signature of inventor	(_____
Date _____	Signature of inventor	(_____
Date _____	Signature of inventor	(_____