

05-12-1998



To the Honorable Commissioner of Patents
Please record the attached original document.

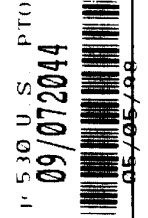
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N. BOX ASSIGNMENTS

1. Name of conveying party(ies):
(1) Hideaki FUKUZAWA (5) Noriyuki ITO
(2) Yuzo KAMIGUCHI (6) Taro OIKE
(3) Naoyuki INOUE (7) Hiroaki KAWASHIMA
(4) Hitoshi IWASAKI

5-5-98

2. Name and address of receiving party(ies):
Name: (1) KABUSHIKI KAISHA TOSHIBA and
(2) TDK CORPORATION



Additional name(s) of conveying party(ies) attached? Yes No

Internal Address:

3. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name

Street Address: (1) 72, Horikawa-cho, Saiwai-ku,
Kawasaki-shi, Kanagawa-ken, Japan
(2) 13-1, Nihonbashi 1-chome, Chuo-ku,
Tokyo, Japan

City:

State:

Zip Code:

Other

Additional name(s) & Address(es) attached?

Yes No

Execution Date: (1), (2), (3) Jan. 26, 1998; (4) Jan. 28, 1998; (5),
(6) and (7) Mar. 2, 1998

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: January 27, 1998, January 28, 1998 and March 2, 1998

A. Patent Application Number(s):

B. Patent Number(s):

Additional numbers attached? Yes No

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

Name: Mr. Ernest F. Chapman

6. Total number of applications and registrations involved: 1

7. Total fee (37 CFR 3.41): \$40

Enclosed (Please charge deficiency to deposit account)

Authorized to be charged to deposit account

Street Address: 1300 I Street, N.W.

City: Washington

State: DC Zip: 20005-3315

8. Deposit account number: 06-0916

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.

Richard V. Burgujian

Richard V. Burgujian

May 5, 1998

Signature

Date

05/08/1998 STIMORITO 0000097 00072044
02 FC:581 40.00 DP

A S S I G N M E N T

WHEREAS I/We, the below named inventor(s), [hereinafter referred to as Assignor(s)], have made an invention entitled:

MAGNETO-RESISTANCE EFFECT HEAD

for which I/WE executed an application for United States Letters Patent concurrently herewith or on _____ or filed an application for United States Letters Patent on _____, 19____ (Serial No. _____); and

WHEREAS, KABUSHIKI KAISHA TOSHIBA, and TDK Corporation, corporations of JAPAN, whose post office addresses are 72, Horikawa-cho, Saiwai-ku, Kawasaki-shi, Kanagawa-ken, Japan; and 13-1, Nihonbashi 1-chome, Chuo-ku, Tokyo, Japan; respectively (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention, the application for United States Letters Patent on this invention and the Letters Patent to be issued upon this application;

NOW THEREFORE, be it known that, for good and valuable consideration the receipt of which from assignee is hereby acknowledged, I/WE, as assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the assignee, its lawful successors and assigns, my/our entire right, title, and interest in and to this invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof; and I/WE hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue all Letters Patent for this invention to assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I/WE HEREBY further covenant and agree that I/We will, without further consideration, communicate with assignee, its successors and assigns, any facts known to me/us respecting this invention and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver all papers that may be necessary or desirable to perfect the title to this invention in said assignee, its successors and assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States, it being understood that any expense incident to the execution of such papers shall be borne by the assignee, its successors and assigns.

AND, I/WE HEREBY authorize and request the attorneys I/we have empowered in the Declaration and Power of Attorney in this application, to insert here in parentheses (Application No. _____, filed _____) the filing date and application number of said application when known.

IN TESTIMONY WHEREOF, I/We have hereunto set our hand(s).

1. Full Name of Sole or First Assignor : Assignor's Signature	: Date
Hideaki FUKUZAWA : <i>Hideaki Fukuzawa</i>	: January 26, 1998
Address 6-11-2, Asamizodai, Sagami-hara-shi, Kanagawa-ken, Japan	: Citizenship : Japan
2. Full Name of Second Assignor : Assignor's Signature	: Date
Yuzo KAMIGUCHI : <i>Yuzo Kamiguchi</i>	: January 26, 1998
Address 33-12, Higashiteraonakadai, Tsurumi-ku, Yokohama-shi, Kanagawa-ken, Japan	: Citizenship : Japan
3. Full Name of Third Assignor : Assignor's Signature	: Date
Naoyuki INOUE : <i>Naoyuki Inoue</i>	: January 26, 1998
Address 3-15-11-406, Hiyoshi, Kohoku-ku, Yokohama-shi, Kanagawa-ken, Japan	: Citizenship : Japan

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PATENT

REEL: 9152 FRAME: 0962

4. Full Name of Fourth Assignor	: Assignor's Signature	: Date
Hitoshi IWASAKI	: <i>Hitoshi Iwasaki</i>	: Jan. 28, 1998
Address 7-2-1-503, Kurihama,		: Citizenship
Yokosuka-shi, Kanagawa-ken, Japan		: Japan
5. Full Name of Fifth Assignor	: Assignor's Signature	: Date
Noriyuki ITO	: <i>Noriyuki Ito</i>	: Mar. 2, 1998
Address D-201, 1075-1, Oaza-Ichi,		: Citizenship
Komoro-shi, Nagano-ken, Japan		: Japan
6. Full Name of Sixth Assignor	: Assignor's Signature	: Date
Taro OIKE	: <i>Taro Oike</i>	: Mar. 2, 1998
Address 1106-101, Oaza-Iwamura,		: Citizenship
Saku-shi, Nagano-ken, Japan		: Japan
7. Full Name of Seventh Assignor	: Assignor's Signature	: Date
Hiroaki KAWASHIMA	: <i>Hiroaki Kawashima</i>	: Mar. 2, 1998
Address 781-1-B, Sarukubo,		: Citizenship
Saku-shi, Nagano-ken, Japan		: Japan
8. Full Name of Eighth Assignor	: Assignor's Signature	: Date
	:	:
Address		: Citizenship
		:
9. Full Name of Ninth Assignor	: Assignor's Signature	: Date
	:	:
Address		: Citizenship
		:
10. Full Name of Tenth Assignor	: Assignor's Signature	: Date
	:	:
Address		: Citizenship
		:
11. Full Name of Eleventh Assignor	: Assignor's Signature	: Date
	:	:
Address		: Citizenship
		:
12. Full Name of Twelfth Assignor	: Assignor's Signature	: Date
	:	:
Address		: Citizenship
		: