To the Honorable Commissioner of Patents and Trademarks. Pl.

1. Name of conveying party(ies):
Koji SHIMAZAWA
Yoshihiro TSUCHIYA

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

2. Name and address of receiving party(ies):
Name: TDK Corporation
Address: 1-13-1, Nihonbashi, Chuo-ku,
         Tokyo, 103-8272, JAPAN

Additional name(s) and address(es) attached? □Yes ■No

3. Nature of Conveyance:
■ Assignment □ Merger
□ Security Agreement □ Change of Name
□ Other

Execution Date: October 15, 2001

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 is:
A. Patent Application No.(s) □
   09/985,481
B. Patent No.(s)

Additional numbers attached? □Yes ■No

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

22850

6. Total applications and patents involved: 1

7. Total fee (37 CFR 3.41): $40.00
   □ Enclosed
   □ Authorized to be charged to deposit account

8. Deposit account number: 15-0030
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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.

C. Irvin McClelland
Name of Person Signing
Registration Number: 21,124

Joseph A. Scafetta, Jr.
Signature
March 21, 2003
Date

Registration No. 26,303

Total number of pages including this cover sheet: 3

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PATENT
REEL: 013875 FRAME: 0149
WHEREAS, I (WE) Koji SHIMAZAWA and Yoshihiro TSUCHIYA of c/o TDK Corporation, 1-13-1, Nihonbashi, Chuo-ku, Tokyo, 103-8272, Japan, respectively, have invented certain new and useful improvements in: Manufacturing Method of Magnetoresistive Element and Film Forming Apparatus, for which an application for Letters Patent was executed on October 15, 2001 (Application No. 09/985,481, filed November 5, 2001), and

WHEREAS, TDK Corporation (hereinafter referred to as "ASSIGNEE") having a place of business at: 1-13-1, Nihonbashi, Chuo-ku, Tokyo, 103-8272, Japan, is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;

NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS ($5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I (WE), by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.
I (WE) hereby authorize and request the Patent Office Officials in the United States and its
territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when
granted, to said ASSIGNEE as the assignee of my (our) entire right, title and interest in and to the same,
for the sole use and behoof of said ASSIGNEE, its (his) successors and assigns, to the full end of the
term for which said Letters Patent may be granted, as fully and entirely as the same would have been
held by me (us) had this Assignment and sale not been made.

Further, I (WE) agree that I (WE) will communicate to said ASSIGNEE or its (his) represen-
tatives any facts known to me (us) respecting said invention, and testify in any legal proceeding, sign
all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications,
execute all necessary assignment papers to cause any and all of said Letter Patent to be issued to said
ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE,
its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United
States and its territorial possessions and in any and all foreign countries.

The undersigned hereby grant(s) the firm of Oblon, Spivak, McClelland, Maier & Neustadt, P.C.
of Fourth Floor, 1755 Jefferson Davis Highway, Arlington, Virginia 22202 the power to insert on this
assignment any further identification, including the application number and filing date, which may
be necessary or desirable in order to comply with the rules of the United States Patent and Trademark
Office for recordation of this document.

Date: October 15, 2001

Koji Shimazawa
(Signature of Inventor)

Yoshihiro Tsuchiya
(Signature of Inventor)

OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, P.C.
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RECORDED: 03/21/2003
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