1. Name of conveying party(ies):

Mamoru SHOJI, Takashi ISHIDA, Atsushi NAKAMURA and Junichi MINAMINO

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

3. Nature of conveyance:

X Assignment
___ Security Agreement
___ Other

Execution Date: September 13, 1999

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): 09/395,218, filed September 14, 1999

B. Patent No(s): , issued

Additional numbers attached? No

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

Name: WENDEROTH, LIND & PONACK, L.L.P.
Attn: Jeffrey R. Filipek
Street Address: 2033 K Street, N.W., Suite 800
City: Washington, State: DC ZIP: 20006

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41) . . . . . . . . . . . . $40.00

X Enclosed (Check No. 3 6 2 8 8)
Authorized to be charged to deposit account

8. Deposit account number: 23-0975

(Attach duplicate copy of this page if paying by deposit account)


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.

Jeffrey R. Filipek, Reg. No. 41,471
Name of Person Signing

Signature

December 29, 1999
Date

Total number of pages including cover sheet: 3

Commissioner and Assistant Secretary of Patents and Trademarks
Box Assignments
Washington, D.C. 20231

Public burden reporting for this sample cover sheet is estimated to average about 30 minutes per document to be recorded, including time for reviewing the document and gathering the data needed, and completing and reviewing the sample cover sheet. Send comments regarding this burden estimate to the U.S. Patent and Trademark Office, Office of Information Systems, PK2-1000C, Washington, D.C. 20231, and the Office of Management and Budget, Paperwork Reduction Project (0651-0011), Washington, D.C. 20503.
ASSIGNMENT

In consideration of the sum of One Dollar ($1.00) and other good and valuable consideration paid to each of the undersigned

Mamoru SHOJI, Takashi ISHIDA, Atsushi NAKAMURA and

Junichi MINAMINO

the undersigned hereby sell(s) and assign(s) to

Matsushita Electric Industrial Co., Ltd.

of 1006, Oaza Kadoma, Kadoma-shi, OSAKA 571-8501 JAPAN

(herinafter designated as the Assignee) the entire right, title and interest for the United States as defined in 35 USC 100, in the invention known as

RECORDING MEDIUM, RECORDING APPARATUS AND

RECORDING METHOD

for which an application for patent in the United States has been executed by the undersigned on

September 13, 1999

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division or reissue thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.

The undersigned agree(s) to execute all papers and documents and 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 Patents of the United States resulting from said application or any division or divisions or continuing or reissue 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 WENDEROTH, LIND & PONACK, L.L.P., 2033 K Street, N.W., Suite 800, Washington, DC 20006, 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.

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

Date Oct. 26, 1999, Name of Inventor Harumio Sakoji
Date Oct. 26, 1999, Name of Inventor Takashi Ishida
Date Oct. 26, 1999, Name of Inventor Atsushi Nakamura
Date Oct. 26, 1999, Name of Inventor Junichi Minamino
Date ______________________, Name of Inventor ______________________
Date ______________________, Name of Inventor ______________________

(This assignment should preferably be acknowledged before a United States Consul. If not, then the execution by the Inventor(s) should be witnessed by at least two witnesses who sign here.)

Witness Ichiro Tanigawa
Witness S. Ishihara

ACKNOWLEDGEMENT

} ss

This ________________ day of ______________________, 19________, before me personally came the above-named ______________________

______________________________

to me personally known as the individual(s) who executed the foregoing assignment, who did acknowledge to me that he (they) executed the same of his (their) own free will for the purposes therein set forth.

______________________________
Official Signature

______________________________
Official Title

The above application may be more particularly identified as follows:

U.S. Application Serial No. ______________________ Filing Date September 14, 1999
Applicant Reference Number 530052 MaI Atty Docket No. ______________________
Title of Invention RECORDING MEDIUM, RECORDING APPARATUS AND RECORDING METHOD

______________________________

RECORDED: 12/29/1999