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To the Honorable Commissioner of Patent

original documents or copy thereof

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1 Name of conveying party(ies):
Shinya Tanaka, Takayasu Yoshida, Hideki Otaka, and
Shinichi Togawa

2 Name and address of receiving party(ies)
Name: Matsushita Electric Industrial Co., Ltd.
Internal Address:
Street Address: 1006, Oaza Kadoma, Kadoma-shi
City: Osaka State: Japan ZIP: 571

Additional name(s) of conveying party(ies) attached? YES NO

Additional name(s) & address(es) attached? YES NO

3 Nature of Conveyance:

- Assignment Merger
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- Other

Execution Date: January 7, 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 is: _____

A. Patent Application Number(s) 09/011,050

B. Patent Number(s)

Additional number(s) attached? YES NO

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

Name: Lawrence E. Ashery

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6 Total number of applications and patents involved

7 Total fee (37 CFR 3.41): \$ 40.00

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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.

Lawrence E. Ashery

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34,515

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Total number of pages including cover sheet, attachments, and document: 3

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Box Assignments

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ASSIGNMENT

WHEREAS, the ASSIGNOR comprising the following named inventor(s)

Inventor(s)

ASSIGNOR(s)/
INVENTOR(s)

- 1. Shinya Tanaka 2. Takayasu Yoshida
- 3. Hideki Otaka 4. Shinichi Togawa

has made an invention entitled: RECORDING APPARATUS, REPRODUCING

APPARATUS AND CONVERSION APPARATUS

and has executed an application for Letters Patent of the United States concurrently herewith;

ASSIGNEE
(Full Name
and address)

WHEREAS, the ASSIGNEE

Matsushita Electric Industrial Co., Ltd.

1006, Oaza Kadoma, Kadoma-shi, Osaka, Japan 571

is desirous of acquiring the entire interest in and to said invention and the Letters Patent to be obtained therefor

NOW, THEREFORE, in consideration of the payment by ASSIGNEE to ASSIGNOR of a sum corresponding to One Dollar (\$1.00), and for other good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR, intending to be legally bound, hereby sells, assigns and transfers to ASSIGNEE, its successors and assigns the full and exclusive right, title and interest in and to said invention, all applications for Letters Patent for said invention, including all divisions and continuations thereof, all rights to claim priority based thereon, and all Letters Patent, including reissues, to be obtained therefor, including any and all foreign patent rights in this invention corresponding thereto

ASSIGNOR hereby warrants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this Assignment.

ASSIGNOR agrees it shall be legally bound, upon request of the ASSIGNEE or its successors or assigns or a legal representative thereof, to supply all information and evidence of which the ASSIGNOR has knowledge or possession, relating to the making and practice of said invention, to testify in any legal proceeding relating thereto, to execute all instruments proper to patent the invention in the United States of America and foreign countries in the name of the ASSIGNEE, and to execute all instruments proper to carry out the intent of this instrument.

If the invention requires a biological deposit, ASSIGNOR also grants to ASSIGNEE such control over any deposit made by ASSIGNOR as may be necessary to the validity of the patent rights assigned herein.

ASSIGNOR authorizes ASSIGNOR's attorney to insert at the end hereof the serial number and filing date of the aforesaid application for United States Letters Patent and/or the Attorney docket or file designation for this application.

If the ASSIGNOR includes more than one individual, these obligations shall apply to these individuals both individually and collectively.

IN WITNESS WHEREOF, this Assignment is executed on the day indicated below.

| (Typed or Printed Name) | (Signature) | (Date) |
|----------------------------|--------------------------------|------------------------|
| 1. <u>Shinya Tanaka</u> | <u><i>Shinya Tanaka</i></u> | <u>January 7, 1993</u> |
| 2. <u>Takayasu Yoshida</u> | <u><i>Takayasu Yoshida</i></u> | <u>January 7, 1993</u> |
| 3. <u>Hideki Otaka</u> | <u><i>Hideki Otaka</i></u> | <u>January 7, 1993</u> |
| 4. <u>Shinichi Togawa</u> | <u><i>Shinichi Togawa</i></u> | <u>January 7, 1993</u> |

Application for United States Letters Patent (09) 11 50 61 210 2 17
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