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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of Conveying Party(ies):

**Kunihiko HORIKAWA
Akira SHIROTA
Hiroyuki UCHINO
Shoji TANIGUCHI
Eiji MURAMATSU**

Additional name(s) of conveying party(ies) attached?

☐ Yes ☒ No

2. Name and address of receiving party(ies)

Name: **PIONEER CORPORATION**

Address: **4-1, Meguro 1-chome
Meguro-ku,
Tokyo 153-8654
JAPAN**

3. Nature of Conveyance:

☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other: _____

Execution Date: **May 17, 2006**

Additional name(s) and address(es) attached?

☐ Yes ☒ No

4. Application number(s) or patent number(s): _____

This document is being filed with a new application, the execution date of the application is:

A. Patent Application No(s).

10/577,144

B. Patent No(s).

Additional numbers attached? ☐ Yes ☒ No

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

Customer No.: 00466

YOUNG & THOMPSON

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Arlington, VA 22202

Phone: 703-521-2297

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6. Total number of applications and patents involved:

1

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

☐ Enclosed

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8. Deposit Account No. **25-0120**

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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.

Benoit Castel

Name of Person Signing

Benoit Castel
Signature

June 13, 2006

Date

Total number of pages including cover sheet, attachments, and documents: **2**

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Timothy M. Price
Timothy M. Price

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Deed of Assignment (Before Patent)

ASSIGNMENT

WHEREAS, Kunihiro HORIKAWA, Akira SHIROTA, Hiroyuki UCHINO,
 Shoji TANIGUCHI and Eiji MURAMATSU of Saitama, Japan
 (hereinafter "Assignors")

have invented certain new and useful improvements in INFORMATION RECORDING APPARATUS
 AND INFORMATION RECORDING METHOD

for which we have made application for Letters
 (I/we have made—or am/are about to make)

Patent of the United States of America;

AND WHEREAS, PIONEER CORPORATION of 4-1, Meguro 1-chome,
 Meguro-ku, Tokyo 153-8654 Japan
 (hereinafter "Assignees")
 desirous of acquiring an interest therein and in the Letters Patent to be obtained therefor from the
 United States;

NOW THEREFORE, be it known by all whom it may concern, that for and in consideration of
 Ten and 00/100 Dollars (\$10.00)
 Assignors to in hand paid, the receipt of which is hereby acknowledged Assignors
 have assigned, sold, and set over, and by these presents do hereby assign, sell, and set over unto the said
 Assignees
 full and exclusive right, title, and interest in and to the said invention,
 as fully set forth and described in the:

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 Inapplicable
 wording

(a) specification prepared and executed by on the 17th day of May, 2006
 (b) application filed on the day of , 19, Serial No.

preparatory to obtaining Letters Patent therefor; said invention, application and Letters Patent to be
 held and enjoyed by the said Assignees
 for their own use and behoof, and for their legal representatives, to the full end of the term
 for which said Letters Patent are granted, as fully and entirely as the same would have been held by
 Assignors had this assignment and sale not been made.

IN TESTIMONY WHEREOF, we hereunto set our hand and affix our seal at
 Tokyo, Japan this 17th day of May, A.D. 2006

Kunihiko Horikawa
 (Inventor's full Signature) KUNIHICO HORIKAWA
 Hiroyuki Uchino
 HIROYUKI UCHINO
 Eiji Muramatsu
 EIJI MURAMATSU

Akira Shirota
 (Inventor's full Signature) AKIRA SHIROTA
 Shoji Taniguchi
 SHOJI TANIGUCHI

* State whether the full and exclusive right, or what part of the whole interest is assigned.

PATENT

RECORDED: 06/13/2006

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