

11-14-2003



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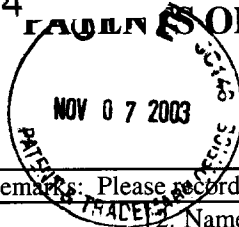
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Our Ref.: 4105-18

Mail Stop Assignment Recordation Services

Commissioner of Patents
P.O. Box 1450
Alexandria, VA 22313-1450



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

1. Name of conveying party(ies):

Atsushi ONOE

Yasuo CHO

11-7-03

2. Name and address of receiving party(ies):

Name: Pioneer Corporation

Internal Address:

Street Address: 4-1, Meguro 1-chome, Meguro-ku

Additional name/s of conveying party/ies attached? ☐

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Assignment ☐ Change of Name
☐ Other

City: Tokyo

State/Country: Japan

Zip:

Execution Date: July 10, 2003

Additional name/s & address/es attached? ☒ Yes ☐ No

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:

July 10, 2003

A. Patent Application No(s).

(1) 10/615,600

(2)

(3)

B. Patent No(s).

(1)

(2)

(3)

Additional numbers attached ☐ Yes ☒ No

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

Name: Arthur R. Crawford

Internal Address:

Street Address: Nixon & Vanderhye P.C.

1100 North Glebe Road

8th Floor

City: Arlington State: VA Zip: 22201

6. Total number of applications & patents involved: 1

7. Total fee (37 CFR 3.41)

\$ 40.00

☒ Enclosed

☐ Authorized to be charged to deposit account #14-1140

8. The Commissioner is hereby authorized to charge any deficiency in the fee(s) filed, or asserted to be filed, or which should have been filed herewith (or with any paper thereafter filed in this application by this firm) to our Account No. 14-1140.

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9. Statements 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.

Arthur R. Crawford

Name of Person Signing

Reg. No. 25,327

Signature

November 7, 2003

Date

Total number of pages including original cover sheet, attachments, and document: [4]

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PATENT
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RECORDATION FORM COVER SHEET

PATENTS ONLY

Our Ref: 4105-18

Commissioner of Patents and Trademarks
Box Assignment, P.O. Box 1450
Alexandria, VA 22313-1450

1. Name of conveying party(ies):

2. Name: Yasuo CHO

Street Address: 4-5-304, Komegafukuro 2-chome, Aoba-ku, Senda-shi

City: Miyagi

State: Japan

Zip:

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

A. Patent Application No(s).

(4)

(5)

(6)

(7)

(8)

(9)

B. Patent No(s).

(4)

(5)

(6)

(7)

(8)

(9)

ASSIGNMENT OF PATENT APPLICATION

(Inventors) Atsushi ONOE of Saitama, Japan and
 Yasuo CHO of Miyagi, Japan

(Assignee)
 (Address) In consideration of the sum of one dollar (\$1.00) and other good and valuable
 considerations paid to each of the undersigned, the undersigned agree(s) to assign,
 and hereby does assign, transfer and set over to
 PIONEER CORPORATION of 4-1, Meguro 1-chome, Meguro-ku,
 Tokyo, Japan and Yasuo CHO of 4-5-304, Komegafukuro
 2-chome, Aoba-ku, Sendai-shi, Miyagi, Japan
 (hereinafter designated as the Assignee) the undersigned's entire right, title and
 interest for the United States, its territories, dependencies and possessions, and for
 the country of
 (Other
 Countries) (in the invention, and all application for patent and any Letters Patent which may be
 (Title) granted therefore, known as RECORDING / REPRODUCING HEAD AND METHOD
 OF PRODUCING THE SAME
 for which the undersigned has (have) executed on even date herewith an application
 for patent in the United States of America or, if not on even date, then has executed
 (on or has already filed in
 (U.S. appln. Serial No. 10/615,600 filed on July 9, 2003).
 The undersigned acknowledges an obligation of assignment of this invention to said
 assignee at the time the invention was made.

The undersigned agree(s) to execute all papers and documents necessary in connection with the
 application or any interference which may be declared and any continuing or divisional applications
 thereof and also to execute separate assignments in connection with such applications as the Assignee
 may deem necessary or expedient and further to 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 Patent of the United States resulting from said application or any division or divisions or
 continuing 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 NIXON & VANDERHYE P.C. 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. It is understood and agreed that
 ASSIGNEE'S attorneys Nixon & Vanderhye P.C. have represented only ASSIGNEE and will continue to
 represent only ASSIGNEE with respect to this invention.

574004302 / 02003700 26

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

Date <u>July 10. 2003</u>	Signature of inventor	(<u>Atsushi Onoe</u> Atsushi ONOE
Date <u>July 10. 2003</u>	Signature of inventor	(<u>Yasuo Cho</u> Yasuo CHO
Date _____	Signature of inventor	(_____
Date _____	Signature of inventor	(_____
Date _____	Signature of inventor	(_____
Date _____	Signature of inventor	(_____
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Date _____	Signature of inventor	(_____

Witnessed by: _____
Witnessed by: _____
Witnessed by: _____

Date _____
Date _____
Date _____