

11-21-2003

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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):

Takanori MAEDA

Atsushi ONOE

11.17.03

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

Name: PIONEER CORPORATION

Internal Address:

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

City: Tokyo

State/Country: Japan

Zip:

031088 U.S. PTO  
10712997

111703

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

3. Nature of conveyance:

☒ Assignment

☐ Merger

☐ Security Assignment

☐ Change of Name

☐ Other

Execution Date: October 28, 2003 and November 5, 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:

October 28, 2003 And November 5, 2003

A. Patent Application No(s).

(1) To be assigned

(2)

(3)

10712997

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

8<sup>th</sup> 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 17, 2003

Date

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

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PATENT  
REEL: 014706 FRAME: 0471

# ASSIGNMENT OF PATENT APPLICATION

(Inventors) Takanori MAEDA and Atsushi ONOE of Saitama, 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

(Other  
Countries)  
(Title) (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  
(in the invention, and all application for patent and any Letters Patent which may be granted therefore, known as  
(Case No)  
INFORMATION RECORDING / READING HEAD

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. , filed on ).  
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.

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

Date	<u>28/10/2003</u>	Signature of inventor	( <u>Takanori Maeda</u> Takanori MAEDA
Date	<u>5/11/2003</u>	Signature of inventor	( <u>Atsushi Onoe</u> Atsushi ONOE
Date	_____	Signature of inventor	( _____
Date	_____	Signature of inventor	( _____
Date	_____	Signature of inventor	( _____
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Date	_____	Signature of inventor	( _____

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