

02-20-2004

U.S. Department of Commerce  
Patents & Trademark Office

Attorney Docket No. 107156-00227  
Date: February 12, 2004



102674125

17531 U.S. PTO  
10776194

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To the Assistant Commissioner of Patents  
Please record the attached original documents or copy thereof

1. Name of conveying party(ies)

- 1) Hitoshi TAKIGUCHI
- 2) Hidekazu OUCHI
- 3) Yasushi KUMAMARU
- 4) Naoki YAMADA
- 5) Tetsuya MURAKAMI
- 6) Yoshinari KUWABARA
- 7) Ko ISHII

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, JAPAN

Additional name(s) & address(es) attached?  
 Yes  No

3. Nature of conveyance:

- Assignment
- Security Agreement
- Other \_\_\_\_\_
- Merger
- Change of Name

Execution Date: 1) 2) 5) Jan. 20, 2004; 3) 4) 6) 7) Jan. 21, 2004

2-12-04

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: 1) 2) 5) Jan. 20, 2004; 3) 4) 6) 7) Jan. 21, 2004

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached?  Yes  No

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

Name: Arent Fox Kintner Plotkin & Kahn PLLC  
Street Address: 1050 Connecticut Avenue, N.W., Suite 400  
Washington, D.C. 20036-5339

6. Total number of applications and patents involved:  
One

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

- Included in attached check.
- Any additional fees are authorized to be charged to deposit account

8. Deposit account number: 01-2300  
(Attach duplicate copy of this page if paying by deposit account)

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9. Statement 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.

George E. Oram, Jr.

*George E. Oram, Jr.*  
Signature

February 12, 2004

Name of Person Signing  
Reg. No. 27,931

Date

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

Docket No. 107156-00227

# U.S. ASSIGNMENT

IN CONSIDERATION of the sum of One Dollar (\$1.00), and of other good and valuable consideration paid to the undersigned inventor(s) (hereinafter ASSIGNOR) by

Pioneer Corporation of  
4-1, Meguro 1-chome, Meguro-ku, Tokyo, Japan

(hereinafter ASSIGNEE), the receipt of which is hereby acknowledged, the undersigned ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest to the invention entitled

"OPTICAL PICKUP ASTIGMATISM MEASURING METHOD, OPTICAL PICKUP  
ASTIGMATISM ADJUSTING METHOD, AND OPTICAL PICKUP ASTIGMATISM  
MEASURING SYSTEM"

for which application for Letters Patent of the United States was executed on even date herewith unless otherwise indicated below:

\*filed on \_\_\_\_\_, Serial No. \_\_\_\_\_

(Arent Fox Kintner Plotkin & Kahn, PLLC, Nikaido, Marmelstein, Murray & Oram Intellectual Property Group is hereby authorized to insert the serial code, serial number and/or filing date hereon, when known)

and all Letters Patent of the United States to be obtained therefor on said application or any continuation, division, renewal, substitute, reissue or reexamination thereof for the full term or terms for which the same may be granted.

The ASSIGNOR agrees to execute all papers necessary in connection with application and any continuing, divisional, reissue or reexamination applications thereof and also to execute separate assignments in connection with such applications as the ASSIGNEE may deem necessary or expedient.

The ASSIGNOR agrees to execute all papers necessary in connection with any interference, litigation, or other legal proceeding which may be declared concerning this application or any continuation, division, reissue or reexamination thereof or Letters Patent or reissue patent issued thereon and to cooperate with the ASSIGNEE in every way possible in obtaining and producing evidence and proceeding with such interference, litigation, or other legal proceeding.

IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s).

[Signature(s)]

<u>Hitoshi Takiguchi</u> (SIGNATURE)	<u>Hitoshi TAKIGUCHI</u> (TYPE NAME)	<u>2004/01/20</u> (DATE)
<u>Hidekazu Ouchi</u> (SIGNATURE)	<u>Hidekazu OUCHI</u> (TYPE NAME)	<u>2004/01/20</u> (DATE)
<u>Yasushi Kumamaru</u> (SIGNATURE)	<u>Yasushi KUMAMARU</u> (TYPE NAME)	<u>2004/1/21</u> (DATE)
<u>Naoki Yamada</u> (SIGNATURE)	<u>Naoki YAMADA</u> (TYPE NAME)	<u>2004/01/21</u> (DATE)
<u>Tetsuya Murakami</u> (SIGNATURE)	<u>Tetsuya MURAKAMI</u> (TYPE NAME)	<u>2004/01/20</u> (DATE)
<u>Yoshinari Kuwabara</u> (SIGNATURE)	<u>Yoshinari KUWABARA</u> (TYPE NAME)	<u>2004/01/21</u> (DATE)
<u>Ko Ishii</u> (SIGNATURE)	<u>Ko ISHII</u> (TYPE NAME)	<u>2004/01/21</u> (DATE)

NO LEGALIZATION REQUIRED