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U.S. Department of Commerce
Patents & Trademark Office

Attorney Docket No. P7156-9050

Date: October 15, 1999

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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)

Kenji UCHIYAMA; Yasuo OGIWARA; Akihiro MUTO;
Tetsuya UCHIYAMA; Takashi KOMIYAMA

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

Yes No

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

Name: PIONEER CORPORATION

Internal Address:

Street Address: 4-1, Meguro 1-chome

Meguro-ku, Tokyo, JAPAN

City: State: Zip:

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

Yes No

3. Nature of conveyance:

Assignment Merger
 Security Agreement Change of Name
 Other

Execution Date: October 12, 1999

4. Application number(s) or patent number(s): 09/419069

If this document is being filed together with a new application, the execution date of the application is: October 12, 1999

A. Patent Application No.(s)

New Application

B. Patent No.(s)

Additional numbers attached? Yes No

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

Name: NIKAIDO, MARMELSTEIN, MURRAY & ORAM LLP

Internal Address:

Street Address: Metropolitan Square, 655 15th St., N.W.,

Suite 330 - G Street Lobby

City: Washington State: DC Zip: 20005-5701

6. Total number of applications and patents involved:

1

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

Included in check #21090 enclosed

Any additional fees are authorized to be charged to deposit account

8. Deposit account number:

14-1060

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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.
Name of Person Signing
Reg. No. 27,931

Signature

October 15, 1999
Date

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

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10/25/1999 PMS
02 FT:581

Docket No. _____

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

[Insert
ASSIGNEE's
Name(s)
Address(es)]

(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 Sending Device"

[Title of
Invention]

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

[*If the assignment
is being filed
after the
filing of the
application, this
section must be
completed]

*filed on _____, Serial No. _____

(Nikaido, Marmelstein, Murray & Oram 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>Kenji Uchiyama</u> (SIGNATURE)	<u>Kenji UCHIYAMA</u> (TYPE NAME)	<u>October 12, 1999</u> (DATE)
<u>Yasuo Ogiwara</u> (SIGNATURE)	<u>Yasuo OGIWARA</u> (TYPE NAME)	<u>October 12, 1999</u> (DATE)
<u>Akihiro Muto</u> (SIGNATURE)	<u>Akihiro MUTO</u> (TYPE NAME)	<u>October 12, 1999</u> (DATE)
<u>Tetsuya Uchiyama</u> (SIGNATURE)	<u>Tetsuya UCHIYAMA</u> (TYPE NAME)	<u>October 12, 1999</u> (DATE)
<u>Takashi Komiyama</u> (SIGNATURE)	<u>Takashi KOMIYAMA</u> (TYPE NAME)	<u>October 12, 1999</u> (DATE)
_____ (SIGNATURE)	_____ (TYPE NAME)	_____ (DATE)
_____ (SIGNATURE)	_____ (TYPE NAME)	_____ (DATE)

NO LEGALIZATION REQUIRED

RECORDED: 10/15/1999

PATENT
REEL: 010330 FRAME: 0147