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Form PTO-159
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U.S. Department of Commerce
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Attorney Docket No. 107156-00216
Date: December 9, 2003

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

17510 U.S. PTO
10730031

1. Name of conveying party(ies)

Toshiharu OISHI
Akihiko HORITA
Ryusuke FUKUSHIMA

12-09-03

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: all on November 19, 2003

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: November 19, 2003

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? Yes No

10730031

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

December 9, 2003

Name of Person Signing
Reg. No. 27,931

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

12/10/2003 SZEWDIE1 00000084 10730031
01 FC:8021 40.00 DP

Docket No. 107156-00216

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

"FLAT DISPLAY APPARATUS"

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

[Title of
Invention]

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)]

Toshiharu Oishi
(SIGNATURE)

Toshiharu OISHI
(TYPE NAME)

(19/Nov/2003)
(DATE)

Akihiko Horita
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Akihiko HORITA
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NO LEGALIZATION REQUIRED

PATENT