

11-12-1999



101199608

6661 8 U AON

Form PTO-1595  
1-31-92

U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

11/8/99

Q55665

RECORDATION FORM COVER SHEET  
PATENTS ONLY

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

1. Name of conveying party(ies):  
Takashi YAMADA, Atsushi YOSHIKAWA, Takuya HATA,  
Shingo IWASAKI, Nobuyasu NEGISHI, Takashi CHUMAN, Hideo  
SATO, Hiroshi ITO, Takamasa YOSHIKAWA and Kiyohide  
OGASAWARA

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

Name:  
PIONEER CORPORATION  
Internal Address:  
4-1, Meguro 1-chome, Meguro-ku, Tokyo, Japan  
Street Address:  
Same as above

Additional name(s) of conveying party(ies) attached?  
 yes  no

City State Zip

3. Nature of Conveyance:

Assignment  Merger  
 Security Agreement  Change of Name  
 Other

Additional name(s) & address(es) attached?  
 yes  no

Execution Date: October 5, 7, 6, 7, 5, 8 & 5, 1999,  
respectively

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:

A. Patent Application No.(s)

09/393,806

B. Patent No(s).

Additional numbers attached?  Yes  No

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

SUGHRUE, MION, ZINN, MACPEAK & SEAS  
2100 Pennsylvania Avenue, N.W.  
Suite 800  
Washington, D.C. 20037-3202

6. Total number of applications and patents involved:  
One (1)

7. Total Fee (37 CFR 3.41): \$ 40.00 <sup>12</sup>  
 Enclosed. Please charge any underpayment in  
connection with this Assignment to Deposit Account No. 19-  
4880

Authorized to be charged to Deposit Account

8. Deposit Account No.

(Attach dupl. copy of this page if paying by Deposit Account)

DO NOT WRITE IN THIS SPACE

9. Statement and Signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is true  
copy of the original document.

*Darryl Mexic*

Name Darryl Mexic Reg. No. 23,063

November 8, 1999

Date

TOTAL NUMBER OF PAGES INCLUDING COVER SHEET, ATTACHMENTS AND DOCUMENTS 3

OMB No. 0651-0011 (exp. 4/94)

0000011 0535606  
40.00 DP  
11/10/1999 HKC/MBA  
FC-581

PATENT  
REEL: 010370 FRAME: 0043

ASSIGNMENT

In consideration of the sum of ten dollars (\$10.00) and other good and valuable consideration paid to each of the undersigned, the undersigned agree to assign, and hereby do assign, transfer, and set over to:

Pioneer Corporation

having the address:

4-1, Meguro 1-chome, Meguro-ku, Tokyo, Japan

(hereinafter designated as the "ASSIGNEE") the entire right, title, and interest for the United States and all foreign countries (including protection in foreign countries via the Patent Cooperation Treaty), in the invention, and all applications for patent and any Letters Patent which may be granted therefor, the application being known by the Title:

ELECTRON EMISSION DEVICE AND DISPLAY APPARATUS USING THE SAME

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

filed on September 10, 1999,

serial No. 09/393,806

1. The undersigned agree to execute all papers necessary in connection with the application 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.

2. The undersigned agree to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation or division thereof and to cooperate with the ASSIGNEE in every way possible in obtaining evidence and going forward with such interference.

3. The undersigned agree to execute all papers and documents and 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.

4. The undersigned agree to perform all affirmative acts which may be necessary to obtain a grant of a valid United states patent to the ASSIGNEE.

5. The undersigned hereby authorize and request the commissioner of Patents in the United States and the appropriate national or regional authority in each foreign country to issue any and all Letters Patents 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 they have full right to convey the entire interest herein assigned, and that they have not executed and will not execute, any agreement in conflict herewith.

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

The undersigned hereby authorize the firm of

SUGHRUE, MION, ZINN, MACPEAK & SEAS at the address of  
2100 Pennsylvania Avenue, N.W., Washington, D.C. 20037-3202,  
U.S.A.

to insert hereon any further identification necessary or desirable for recordation of this document.

Oct. 5, 1999  
Date

Takashi Yamada  
Typed Name: Takashi YAMADA

Oct. 6, 1999  
Date

Atsushi Yoshizawa  
Typed Name: Atsushi YOSHIKAWA

Oct. 7, 1999  
Date

Takuya Hata  
Typed Name: Takuya HATA

Oct. 6, 1999  
Date

Shingo Iwasaki  
Typed Name: Shingo IWASAKI

Oct. 7, 1999  
Date

Nobuyasu Negishi  
Typed Name: Nobuyasu NEGISHI

Oct. 5, 1999  
Date

Takashi Chuman  
Typed Name: Takashi CHUMAN

Oct. 5, 1999  
Date

Hideo Satoh  
Typed Name: Hideo SATOH

Oct. 8, 1999  
Date

Hiroshi Ito  
Typed Name: Hiroshi ITO

Oct. 5, 1999  
Date

Takamasa Yoshikawa  
Typed Name: Takamasa YOSHIKAWA

Oct. 5, 1999  
Date

Kiyohide Ogawara  
Typed Name: Kiyohide OGASAWARA