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To the Honorable Commissioner of Patents and Trademarks

1 original documents or copy thereof.

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Tadashi Kosuga

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Name: PIONEER ELECTRONIC CORPORATION

Internal Address: \_\_\_\_\_

Additional name(s) of conveying parties attached? ☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment

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Street Address: No. 4-1 Meguro 1-chome,

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Execution Date: April 1, 1999

4. Application number(s) or patent number(s):

09/287,974

If this document is being filed together with a new application, the execution date of the application is: April 1, 1999

A. Patent Application No(s):

B. Patent No(s):

Additional numbers attached? ☐ Yes ☒ No

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

Richard P. Berg

Name: LADAS & PARRY

Internal Address: \_\_\_\_\_

Street Address: 5670 Wilshire Boulevard, #2100

City: Los Angeles State: CA Zip: 90036

6. Total number of application and patents involved: [ 1 ]

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

☒ Enclosed

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Richard P. Berg

Name of Person Signing

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Signature

April 7, 1999

Date

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Attorney's Docket No. B-3634 617040-5

**PATENT**

For: ☐ U.S. and/or ☐ Foreign Rights  
For: ☒ U.S. Application or ☐ U.S. Patent  
For: ☐ PCT Application  
By: ☐ Inventor(s) or ☐ Present Owner

**ASSIGNMENT OF INVENTION**

In consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration,

**ASSIGNOR:**

(inventor(s) or person(s) or  
entity(ies) who own the  
invention)

Tadashi KOSUGA

(type or print name(s) of ASSIGNOR(S))

c/o Pioneer Electronic Corporation,  
Kawagoe Works.

(Address) No. 25-1 Aza-Nishicho, Oaza-Yamada,  
Kawagoe-shi, Saitama-ken, Japan

(Nationality)

*(if assignment is by person or entity to whom invention was previously assigned and  
this was recorded in PTO, add the following)*

Recorded on \_\_\_\_\_

Reel \_\_\_\_\_

Frame \_\_\_\_\_

hereby sells, assigns and transfers to

**ASSIGNEE:**

PIONEER ELECTRONIC CORPORATION

(type or print name(s) of ASSIGNOR(S))

No. 4-1 Meguro 1-chome, Meguro-ku,

(Address)  
Tokyo-to, Japan

(Nationality)

and the successors, assigns and legal representatives of the ASSIGNEE

(Assignment of Invention [16-3]—page 1 of 3)

**PATENT**  
**REEL: 9890 FRAME: 0448**

(complete one of the following)

- ☒ the entire right, title and interest  
☐ an undivided \_\_\_\_\_ percent (\_\_\_\_\_% ) interest  
for the United States and its territorial possessions

(check the following box if foreign rights are also to be assigned)

- ☐ and in all foreign countries, including all rights to claim priority,  
in and to any and all improvements which are disclosed in the invention entitled:  
RECEIVING CIRCUIT

(check and complete (a), (b), (c) or (d))

and which is found in

- (a) ☒ U.S. patent application executed on even date herewith  
(b) ☐ U.S. patent application executed on \_\_\_\_\_  
☐ To comply with 37 CFR 3.21 for recordal of this assignment, I, an ASSIGNOR signing below, hereby authorize and request my attorney, as named in the Declaration and Power of Attorney I executed for this invention on the execution date stated above, to insert below the filing date and application number when it becomes known.  
(c) ☐ U.S. application serial no. 0 / \_\_\_\_\_ filed on \_\_\_\_\_  
(d) ☐ International application no. PCT/\_\_\_\_\_/\_\_\_\_\_  
(e) ☐ U.S. patent no. \_\_\_\_\_ issued \_\_\_\_\_  
☐ A change of address to which correspondence is to be sent regarding patent maintenance fees is being sent separately.

(also check (e) if foreign application(s) is also being assigned)

- (f) ☐ and any legal equivalent thereof in a foreign country, including the right to claim priority

and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute thereof, and as to letters patent any reissue or re-examination thereof

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment;

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

(Assignment of Invention [16-3]—page 2 of 3)

IN WITNESS WHEREOF, I/We have hereunto set hand and seal this

1st day of April, 1999 (Date of signing).

**WARNING:** Date of signing must be the same as the date of execution of the application if item (a) was checked above.

Tadashi Kosuga  
Signature of ASSIGNOR(S)  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

If ASSIGNOR is a legal entity complete the following information

\_\_\_\_\_  
(Type or print the name of the above person  
authorized to sign on behalf of ASSIGNOR)

\_\_\_\_\_  
Title

**NOTE:** No witnessing, notarization or legalization is necessary. If the assignment is notarized or legalized then it will only be prima facie evidence of execution 35 USC 261. Use next page if notarization is desired.

☐ Notarization or Legalization Page Added.

(Assignment of Invention [16-3]—page 3 of 3)