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Attorney Docket No. 8014-1039

Form PTO-1595

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

1. Name of Conveying Party(ies):

Akira SHIMIZU  
Takahiro SASAKI  
Nobumitsu KASAHARA

10/23/02

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

☐ Yes ☒ No

2. Name and address of receiving party(ies)

Name: PIONEER CORPORATION

Address: No. 4-1 Megura 1-chome, Meguro-ku  
Tokyo-to, Japan

3. Nature of Conveyance:

☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other: \_\_\_\_\_Execution Date: October 17, 2002; October 18,  
2002; October 17, 2002

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

☐ Yes ☒ No

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

10/277876

This document is being filed with a new application, the execution date of the application is: October 17, 2002;  
October 18, 2002; October 17, 2002

A. Patent Application No(s).

B. Patent No(s).

10/24/2002 SDIRETA1 00000098 10277876

02 FC:8021

40.00 DP

Additional numbers attached? ☐ Yes ☒ No

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

Customer No.: 000466  
YOUNG & THOMPSON  
Second Floor  
745 South 23<sup>rd</sup> Street  
Arlington, VA 22202  
Phone: 703-521-22976. Total number of applications and patents involved: 17. Total fee (37 CFR 3.41)..... \$40.00☒ Enclosed☐ Authorized to be charged to deposit account8. Deposit Account No. 25-0120

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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.*

Isiah Avila

October 23, 2002

Name of Person Signing

Signature

Date

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

Y&amp;T September 30, 2002

PATENT  
REEL: 013414 FRAME: 0700

A S S I G N M E N T

FOR ONE DOLLAR (\$1.00) and other valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I (We), Akira SHIMIZU, Takahiro SASAKI and Nobumitsu KASAHARA

being the inventor(s) of certain improvements in

ELECTRONIC APPARATUS

hereby assign unto PIONEER CORPORATION

having a principal place of business at No. 4-1 Meguro 1-chome, Meguro-ku, Tokyo-to, Japan our entire right, title and interest in and to such invention, together with the patent rights and rights of protection to the same throughout the world, including any patent rights which may result from the application for United States Letters Patent in and to any and all divisions, reissues, continuations and extensions thereof and in and to any Letters Patent that may be granted thereon; said invention, application and Letters Patent that may be granted thereon; said invention, application and Letters Patent to be held and enjoyed by the said assignee for its own use and behoof and for the use and behoof of its successors and assigns, to the full end of the term from which said Letters patent or other rights of protection may be granted, as fully and as entirely as the same would have been held and enjoyed by us had this assignment and sale not been made.

WE COVENANT, AGREE AND WARRANT that we have a full and unencumbered title to the invention hereby assigned, and we further covenant and agree that we will, at any time upon request, without further compensation, execute and deliver any and all papers or instruments that in the opinion of the assignee may be necessary or desirable to secure said assignee the full enjoyment of the rights and properties herein conveyed or intended to be conveyed.

IN WITNESS WHEREOF, we have hereunto set out hand and seal this 18th day of October , 2002 .

Date: OCT. 17 2002  
AKIRA SHIMIZU

Date: OCT. 18. 2002  
TAKAHIRO SASAKI

Date: OCT. 17. 2002  
NOBUMITSU KASAHARA

Date: \_\_\_\_\_  
\_\_\_\_\_

Date: \_\_\_\_\_  
\_\_\_\_\_

Date: \_\_\_\_\_  
\_\_\_\_\_