

12-09-1999

FEET

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To the Hon. Commissioner of Patents & Trademarks: Please receive the attached original documents or copy thereof.

1. Name of conveying party(ies):

Kazuhiro KIYOURA, Toshiyuki
SUZUKI, Takeshi MATSUMOTO,
Hiroshi KITAGAWA, Takehiro
TAKADA and Kazunori SAITOHAdditional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other

Execution Dates: November 15, 1999

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

Name:
PIONEER CORPORATION

and

TOHOKU PIONEER CORPORATION

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

and

1105, Aza-Nikko, Oaza-
Kunomoto, Tendo-shi,
Yamagata-ken, Japan

09/443137

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

If this document is being filed together with a new application, the execution dates of the application is: November 15, 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:

YOUNG & THOMPSON
Second Floor
745 South 23rd Street
Arlington, VA 22202

6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 3.41).....\$ 40

☒ Enclosed☐ Authorized to be charged to deposit account

8. Deposit Account No. 25-0120

(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.

Mary Shelton

Name of Person Signing

Mary Shelton

Signature

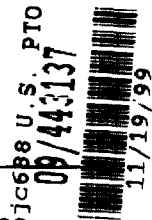
November 19, 1999

Date

Total number of pages including cover sheet: 121

PATENT

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10:10:501

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), Kazuhiro KIYOURA, Toshiyuki SUZUKI, Takeshi MATSUMOTO, Hiroshi KITAGAWA, Takehiro TAKADA and Kazunori SAITOH

being the inventor(s) of certain improvements in GAIN CONTROLLING APPARATUS AND METHOD, INFORMATION REPRODUCING APPARATUS AND METHOD, AND INFORMATION RECORDING APPARATUS AND METHOD

hereby assign unto

- (1) PIONEER CORPORATION
- (2) TOHOKU PIONEER CORPORATION

having a principal place of business at

- (1) No. 4-1 Meguro 1-chome, Meguro-ku, Tokyo-to, Japan
- (2) 1105, Aza-Nikko, Oaza-Kunomoto, Tendo-shi, Yamagata-ken, 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 15th day of November , 1999 .

Date: November 15, 1999

Kazuhiro Kiyoura

Date: November 15, 1999

Toshiyuki Suzuki

Date: November 15, 1999

Takeshi Matsumoto

Date: November 15, 1999

Hiroshi Kitagawa

Date: November 15, 1999

Takehiro Takada

Date: November 15, 1999

Kazunori Saitoh