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RE



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To the Honorable Commissioner of Patents original documents or copy thereof.

1. Name of conveying party(ies):

Koji NAKANE
Yumi TAKIGAMI

32103

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

PIONEER CORPORATION
4-1, Meguro 1-chome
Meguro-ku, Tokyo
JAPAN

U.S. PTO
29/178046
03/21/03

Additional name(s) of conveying party(ies) attached? Yes No

3. Nature of conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Other

Execution Date: **March 14, 2003**

Additional name(s) & address(es) attached? Yes No

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: March 14, 2003

A. Patent Application No.(s) **29178046**
(File with new application on March 21, 2003
therefore unknown at the time of submission)

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, PLLC

WASHINGTON OFFICE



23373

PATENT TRADEMARK OFFICE

6. Total number of applications and patents involved:

1

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

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March 21, 2003

Date

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Assignment

Whereas, I/We, Koji Nakane and Yumi Takigami of
c/o PIONEER DESIGN CORPORATION, of 4-1,
Meguro 1-chome, Meguro-ku, Tokyo, Japan, respectively

hereinafter called assignor(s), have invented certain improvements in

Speaker

and executed an application for Letters Patent of the United States of America therefor on
; and

Whereas, PIONEER CORPORATION, of 4-1,
Meguro 1-chome, Meguro-ku, Tokyo, Japan

(assignee), desires to acquire the entire right, title, and interest in the application and invention, and to
any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

I/We, the above named assignor(s), hereby sell, assign and transfer to the above named assignee, its
successors and assigns, the entire right, title and interest in the application and the invention disclosed
therein for the United States of America, including the right to claim priority under 35 U.S.C. §119, and
I/we request the Commissioner of Patents to issue any Letters Patent granted upon the invention set forth
in the application to the assignee, its successors and assigns; and I/we will execute without further
consideration all papers deemed necessary by the assignee in connection with the United States application
when called upon to do so by the assignee.

Date: March 14, 2003 s/ Koji Nakane
Koji Nakane

Date: March 14, 2003 s/ Yumi Takigami
Yumi Takigami

Date: s/ _____

Date: s/ _____

Date: s/ _____

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. §261)