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

1. Name of conveying party(ies):
Shinjiro KATO
Takami MAEDA
Kazuhito TATSUTA

05/28/02
Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies):
PIONEER CORPORATION
4-1, Meguro 1-chome, Meguro-ku, Tokyo, Japan

JC986 U.S. PTO
10/154779
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3. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other _____

Execution Date: April 25, 2002

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: April 25, 2002
A. Patent Application No.(s)
10/154779
Additional numbers attached? Yes No

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
2100 Pennsylvania Avenue, N.W.
Suite 800
Washington, D.C. 20037-3213

6. Total number of applications and patents involved:
1
7. Total fee (37 CFR 3.41): \$40.00
 Enclosed. Please charge any underpayment in connection with this Assignment to Deposit Account No. 19-4880.
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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.
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Total number of pages including cover sheet, attachments, and documents: 2
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PATENT
REEL: 012936 FRAME: 0686

ASSIGNMENT

Whereas, I/we **Shinjiro KATO, Takami MAEDA and Kazuhito TATSUTA**
all of Saitama, Japan

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

AUDIO APPARATUS

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

April 25, 2002 ; 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 Director - U.S. Patent and Trademark Office 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.

I/We hereby authorize and request my/our attorneys SUGHRUE MION, PLLC of 2100 Pennsylvania Avenue, N.W., Washington, D.C. 20037-3213 to insert here in parentheses (Application number _____, filed _____) the filing date and application number of said application when known.

Date: **APR 25, 2002** s/ Shinjiro Kato

Date: **APR. 25, 2002** s/ Takami Maeda

Date: **APR. 25, 2002** s/ Kazuhito Tatsuta

Date: s/ _____

Date: s/ _____

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