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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):
Takeshi KAIWA
Osamu TAKAHASHI
Masanori ITO
Kunio MITOBE

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

1-28-02

2. Name and address of receiving party(ies):
PIONEER CORPORATION
4-1, Meguro 1-chome, Meguro-ku, Tokyo 153-0063, Japan

TOHOKU PIONEER CORPORATION
1105, Nikkoh, Oaza Kunomo, Tendo-shi, Yamagata 994-0012, Japan

3. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other _____

Execution Date: January 16, 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: January 16, 2002

A. Patent Application No.(s)
Unassigned 10,056,037

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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January 28, 2002 _____
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02/06/2002 TDIAZ1 00000001 10056037
01 FC:581 40.00 DP

PATENT
REEL: 012538 FRAME: 0034

ASSIGNMENT

Whereas, I/We, 1)TAKESHI KAIWA, 2)OSAMU TAKAHASHI,
3)MASANORI ITO and 4)KUNIO MITOBE, each of c/o Tohoku
Pioneer Corporation, 1105, Nikkoh, Oaza Kunomoto,
Tendo-shi, Yamagata 994-0012, Japan

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

SPEAKER AND SPEAKER SYSTEM

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

January 16, 2002 ; and

Whereas, 1)Pioneer Corporation, of 4-1, Meguro 1-chome,
Meguro-ku, Tokyo 153-0063, Japan and 2)Tohoku Pioneer
Corporation, of 1105, Nikkoh, Oaza Kunomo, Tendo-shi,
Yamagata 994-0012, 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.

I/We hereby authorize and request my attorneys SUGHRUE, MION, ZINN, MACPEAK
& SEAS, PLLC of 2100 Pennsylvania Avenue, N.W., Washington, D.C. 20037-3202 to insert
here in parentheses (Application number , filed) the filing date and
application number of said application when known.

Date: January 16, 2002 s/ Takeshi Kaiwa
TAKESHI KAIWA

Date: January 16, 2002 s/ Osamu Takahashi
OSAMU TAKAHASHI

Date: January 16, 2002 s/ Masanori Ito
MASANORI ITO

Date: January 16, 2002 s/ Kunio Mitobe
KUNIO MITOBE

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

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