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Hideaki SUGIURA  
Taizo NAKAYTA  
Tetsuo NISHIKAWA  
  
11.21.03  
Additional name(s) of conveying party(ies) attached?  Yes  No

2. Name and address of receiving party(ies):  
PIONEER CORPORATION  
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Execution Date: November 10, 2003

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: November 10, 2003

A. Patent Application No.(s)  
Not yet Assigned

B. Patent No.(s)  
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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  
CUSTOMER NUMBER

6. Total number of applications and patents involved: 1  
7. Total fee (37 CFR 3.41): \$40.00  
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**PATENT**  
**REEL: 014741 FRAME: 0803**

# ASSIGNMENT

Whereas, I/we Hideaki SUGIURA of Yamagata, Japan,  
Taizo NAKATA of Osaka, Japan and  
Tetsuo NISHIKAWA of Yamaguchi, Japan

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

## SPEAKER DEVICE

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

November 10, 2003; and

Whereas,

1. PIONEER CORPORATION of 4-1, Meguro 1-chome, Meguro-ku, Tokyo, Japan
2. TOHOKU PIONEER CORPORATION of 1105, Aza Nikko, Oaza Kunomoto, Tendo-shi,  
Yamagata, 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: November 10, 2003 s/ Hideaki Sugiura

Date: November 10, 2003 s/ Taizo Nakata

Date: November 10, 2003 s/ Tetsuo Nishikawa

Date: s/ \_\_\_\_\_

Date: s/ \_\_\_\_\_

Date: s/ \_\_\_\_\_

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