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To the Director of the U.S. Patent and Trademark Office: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Hiroyuki TOMIYAMA  
Masatoshi SATO  
Yoshimi KUDO  
Yuichi KASAHARA

5-12-04

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

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

TOHOKU PIONEER CORPORATION  
1105, Aza nikko, Oaza Kunomoto, Tendo-shi  
Yamagata, Japan

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

3. Nature of conveyance:

- Assignment  Merger
- Security Agreement  Change of Name
- Other

Execution Date: April 27, 2004

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 27, 2004

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

10843587

B. Patent No.(s)  
Not yet assigned

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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*Paul E. J. Mills Reg. No. 33,102*

May 12, 2004

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PATENT  
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# ASSIGNMENT

Whereas, I/we Hiroyuki TOMIYAMA, Masatoshi SATO, Yoshimi KUDO  
and Yuichi KASAHARA all of Yamagata, Japan

hereinafter called assignor(s), have invented certain improvements in  
**MAGNESIUM DIAPHRAGM, METHOD FOR MANUFACTURING THE SAME, AND SPEAKER  
USING THE DIAPHRAGM**

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

April 27, 2004; 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: April 27, 2004 s/ Hiroyuki Tomiyama

Date: April 27, 2004 s/ Masatoshi Sato

Date: April 27, 2004 s/ Yoshimi Kudo

Date: April 27, 2004 s/ Yuichi Kasahara

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

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

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