



**CORRECTED**

*2-14-03*

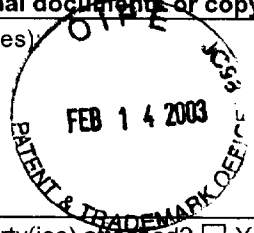
*Resubm*

102369689

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

ATTN. BOX ASSIGNMENTS  
Document ID No.: 102246134

1. Name of conveying party(ies): 1) Satoshi HACHIYA 2) Masatoshi SATO 3) Kazuhiko SAHEKI 4) Shigeyuki KOUSAKA 5) Moriyuki YOKOYAMA	2. Name and address of receiving party(ies): Name: Pioneer Corporation and Tohoku Pioneer Corporation
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Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Internal Address:
--	-------------------

3. Nature of conveyance:	Street Address: 4-1, Meguro 1-chome, Meguro-ku, Tokyo, Japan and 1105, Aza-Nikko Oaza-Kunomoto Tendo-shi, Yamagata-ken, Japan
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<input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger	City:
--	-------

<input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name	State:	Zip Code:
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<input type="checkbox"/> Other: September 2 and September 5, 2002	Additional name(s) & Address(es) attached?
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Execution Date: September 2 and September 5, 2002	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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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:	
A. Patent Application Number(s): <u>10/197,588</u> Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	B. Patent Number(s): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

5. Name and address of party to whom correspondence concerning document should be mailed: Name: Mr. David W. Hill	6. Total number of applications and registrations involved: 1
--	--

Internal Address: FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, L.L.P.	7. Total fee (37 CFR 3.41): \$40 <input checked="" type="checkbox"/> Enclosed (Please charge deficiency to deposit account) <input type="checkbox"/> Authorized to be charged to deposit account
Street Address: 1300 I Street, N.W.	
City: Washington, D.C.	

State: Zip: 20005-3315	8. Deposit Account No.: <u>06-0916</u>
------------------------	--

9. Statement and signature.

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.

*David W. Hill*  
\_\_\_\_\_  
Signature

February 14, 2003  
\_\_\_\_\_  
Date

David W. Hill  
Reg. No. Reg. 28,220

Total number of pages including cover sheet, attachments and documents: 6

10-10-2002

U.S. Department of Commerce  
Patent and Trademark Office  
Attorney Docket No. 05721.0029  
Attorney Customer Number: 22,852



102246134

ATTN. BOX ASSIGNMENTS

To the Honorable Commissioner of Patents  
Please record the attached original document.

1. Name of conveying party(ies):
- 1) Satoshi HACHIYA
  - 2) Masatoshi SATO
  - 3) Kazuhiko SAHEKI
  - 4) Shigeyuki KOUSAKA
  - 5) Moriyuki YOKOYAMA



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

Name: Pioneer Corporation  
and  
Tohoku Pioneer Corporation

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

Internal Address:

3. Nature of conveyance:

10.4.02

Street Address: 4-1, Meguro 1-chome, Meguro-ku,  
Tokyo, Japan  
and  
1105, Aza-Nikko Oaza-Kunomoto  
Tendo-shi, Yamagata-ken, Japan

Assignment  Merger

City:

Security Agreement  Change of Name

State:

Zip Code:

Other: September 2 and September 5, 2002

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10/09/2002 DBYRNE 00000046 10197588

01 FC:581

David W. Hill,  
Reg. No. Reg. 28,220

40.00 DP

Signature

October 4, 2002

Date

Total number of pages including cover sheet, attachments and documents: 3

ASSIGNMENT

In consideration of the sum of ten dollars (\$10.00) and other good and valuable consideration paid to each of the undersigned, the undersigned agree to assign, and hereby do assign, transfer, and set over to:

Pioneer Corporation of 4-1, Meguro 1-chome, Meguro-ku,  
Tokyo, Japan

and

Tohoku Pioneer Corporation of 1105, Aza-Nikko Oaza-  
Kunomoto Tendo-shi, Yamagata-ken, Japan

(hereinafter designated as the "ASSIGNEE") the entire right, title, and interest for the United States and all foreign countries (including protection in foreign countries via the Patent Cooperation Treaty), in the invention, and all applications for patent and any Letters Patent which may be granted therefor, the application being known by the Title:

ELECTROACOUSTIC TRANSDUCER FRAME AND METHOD OF MAKING THE SAME

for which application for Letters Patent of the United States was executed on even date herewith unless otherwise indicated below:

filed on July 18, 2002,  
serial No. 10/197,588

1. The undersigned agree to execute all papers necessary in connection with the application and any continuing or divisional applications thereof and also to execute separate assignments in connection with such applications as the ASSIGNEE may deem necessary or expedient.

2. The undersigned agree to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation or division thereof and to cooperate with the ASSIGNEE in every way possible in obtaining evidence and going forward with such interference.

3. The undersigned agree to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial property or similar agreements.

4. The undersigned agree to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the ASSIGNEE.

5. The undersigned hereby authorize and request the commissioner of Patents in the United States and the appropriate national or regional authority in each foreign country to issue any and all Letters Patents resulting from said application or any division or divisions or continuing applications thereof to the said ASSIGNEE, as ASSIGNEE of the entire interest, and hereby covenants that they have full right to convey the entire interest herein assigned, and that they have not executed and will not execute, any agreement in conflict herewith.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned names.

The undersigned hereby authorize the firm of

FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, L.L.P.  
at the address of 1300 I Street, N.W., Washington, D.C.  
20005-3315, U.S.A.

to insert hereon any further identification necessary or desirable for recordation of this document.

sep. 2. 2002  
Date

Satoshi Hachiya  
Typed Name: Satoshi HACHIYA

sep 2 2002  
Date

Masatoshi Sato  
Typed Name: Masatoshi SATO

Sep. 2. 2002  
Date

Kazuhiko Saheki  
Typed Name: Kazuhiko SAHEKI

Sep. 5. 2002  
Date

Shigeyuki kousaka  
Typed Name: Shigeyuki KOUSAKA

SEP 5. 2002  
Date

Moriyuki Yokoyama  
Typed Name: Moriyuki YOKOYAMA