To the Assistant Commissioner for Patents:
Please record the attached original documents or copy thereof.

ATTN: BOX ASSIGNMENT

1. Name of conveying party(ies):
   1. Shozo EMA
   2. Hidehiro ISHII
   3. Takao SAWABE
   4. Yoshinori HASEGAWA
   5. Kaoru YAMAMOTO
   6. Hirokazu INOTANI
   7. Tokihiro TAKAHASHI
   8. Yoichi YAMADA

2. Name and address of receiving party(ies):
   Name: Pioneer Electronic Corporation
   Internal Address:
   Street Address: No. 4-1 Meguro 1-chome, Meguro-ku
   Tokyo-to, Japan
   City:
   State:
   Zip:
   Additional name(s) & address(es) attached?
   _ Yes _ No

3. Nature of conveyance:
   X Assignment ___ Merger
   ___ Security Agreement ___ Change of Name
   X ___ Other ___ Response to Document ID No. 100997402

   Execution Date: March 9, 1999

4. Application number(s) or patent number(s): 09/271,990

   If this document is being filed together with a new application the execution date of the application is:

   A. Patent Application No.(s) 09/271,990  B. Patent No.(s)

   Additional numbers attached: _ Yes _ No

5. Name and address of party to whom correspondence concerning document should be mailed:
   Name: Mr. Robert J. Gaybrick
   Internal Address: Customer No. 09629
   Morgan, Lewis & Bockius LLP
   Street Address: 1800 M Street, N.W.
   City: Washington State: D.C. Zip: 20036

6. Total number of applications and patents involved: 1

7. Total fee (37 C.F.R §3.41): _$40.00_
   X Copy of Check Enclosed
   ___ Authorized to be charged to deposit account 50-0310

8. Deposit account number: 50-0310
   Attach duplicate of page if paying by deposit account

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.

   ____ John G. Smith _____ Signature
   Name of Person Signing    July 16, 1999

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

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   A. Patent Application No.(s) B. Patent No.(s)

   Additional numbers attached: ___ Yes ___ No

   09/127,1990

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   __________________________
   Name of Person Signing

   __________________________
   Signature

   March 19, 1999
   Date

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

PATENT
REEL: 010234 FRAME: 0059
ASSIGNMENT

WHEREAS I/WE, the below named inventor(s), [hereinafter referred to as Assignor(s)], have made an invention entitled: APPARATUS FOR AND METHOD OF REPRODUCING MUSIC TOGETHER WITH INFORMATION REPRESENTING BEAT OF MUSIC for which I/WE executed an application for United States Letters Patent concurrently herewith; or filed an application for United States Letters Patent on _______________, (Serial No. _______________); and

WHEREAS, PIONEER ELECTRONIC CORPORATION, a corporation of Japan, whose post office address is No. 4-1 Meguro 1-chome, Meguro-ku, Tokyo-to, Japan _______________, (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention, the application for United States Letters Patent on this invention and the Letters Patent to be issue upon this application;

NOW THEREFORE, be it known that, for good and valuable consideration the receipt of which from assignee is hereby acknowledged, I/WE, as assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the assignee, its lawful successors and assigns, MY/OUR entire right, title, and interest in and to this invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof; and I/WE hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue all Letters Patent for this invention to assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I/WE HEREBY further covenant and agree that I/WE will, without further consideration, communicate with assignee, its successors and assigns, any facts known to ME/US respecting this invention and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver all papers that may be necessary or desirable to perfect the title to this invention in said assignee, its successors and assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States, it being understood that any expense incident to the execution of such papers shall be borne by the assignee, its successors and assigns.

AND, I/WE HEREBY authorize and request the attorneys I/WE have empowered in the Declaration and Power of Attorney in this application, to insert here in parentheses (Application No. __________, filed __________) the filing date and application number of said application when known.

IN TESTIMONY WHEREOF, I/WE have hereunto set our hand(s).

<table>
<thead>
<tr>
<th>Full Name of Sole or First Assignor</th>
<th>Assignor's Signature</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shozo EMA</td>
<td>Shozo Ema</td>
<td>March 9, 1999</td>
</tr>
<tr>
<td>Address</td>
<td></td>
<td></td>
</tr>
<tr>
<td>c/o Pioneer Electronic Corporation, Tokorozawa Works. No. 2610 Hanazono 4-chome, Tokorozawa-shi, Saitama-ken, Japan</td>
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<th>Full Name of Second Assignor</th>
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<tbody>
<tr>
<td>Hidehiro TSUJI</td>
<td>Hidehiro TSUJI</td>
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Names of additional inventors attached [ ] Yes [ ] No
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<th>Full Name of Third Assignor</th>
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<tr>
<td>Takao SAWABE</td>
<td>Takao Sawabe</td>
<td>March 9, 1999</td>
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<tr>
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<td>Yoshinori HASEGAWA</td>
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<tr>
<td>Kaoru YAMAMOTO</td>
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<td>March 9, 1999</td>
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<tr>
<td>Address: c/o Pioneer Electronic Corporation, Sougou Kenkyusho. No. 6-1-1 Fujimi, Tsurugashima-shi, Saitama-ken, Japan</td>
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<td>Hirokazu INOTANI</td>
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<td>Tokihiro TAKAHASHI</td>
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