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Our Ref.: 1767-112

Commissioner of Patents and Trademarks
Box Assignment, Washington, D.C. 20231

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

<p>1. Name of conveying party(ies): Hitoshi KANEKO Tatsuya OKAMOTO Isao ENDO</p> <p>02.03.03</p> <p>Additional name/s of conveying party/ies attached? <input type="checkbox"/></p> <p>3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Assignment <input type="checkbox"/> Change of Name <input type="checkbox"/> Other</p> <p>Execution Date: 1) January 28, 2003, 2) January 27, 2003 and 3) January 29, 2003</p>	<p>2. Name and address of receiving party(ies):</p> <p>Name: Pioneer Corporation Internal Address: Street Address: No. 4-1Meguro 1-chome Meguro-ku City: Tokyo-to State/Country: JAPAN Zip:</p> <p>Additional name/s & address/es attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
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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 is: 1) January 28, 2003, 2) January 27, 2003 And 3) January 27, 2003

<p>A. Patent Application No(s). (1) 10/ (2) (3)</p>	<p>B. Patent No(s). (1) (2) (3)</p> <p>10356597</p> <p>Additional numbers attached <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
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<p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p>Name: Arthur R. Crawford Internal Address: Street Address: Nixon & Vanderhye P.C. 1100 North Glebe Road 8th Floor City: Arlington State: VA Zip: 22201</p>	<p>6. Total number of applications & patents involved: 1</p> <p>7. Total fee (37 CFR 3.41) \$ 40.00 <input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> Authorized to be charged to deposit account #14-1140</p> <p>8. The Commissioner is hereby authorized to charge any deficiency in the fee(s) filed, or asserted to be filed, or which should have been filed herewith (or with any paper thereafter filed in this application by this firm) to our Account No. 14-1140.</p>
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9. Statements 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.

<p>Arthur R. Crawford Name of Person Signing Reg. No. 25,327</p>	<p>Signature</p>	<p>February 3, 2003 Date</p>
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Total number of pages including original cover sheet, attachments, and document: [2]

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PATENT
REEL: 013728 FRAME: 0731

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ASSIGNMENT OF PATENT APPLICATION

(1) Hitoshi KANEKO
(2) Tatsuya OKAMOTO
(Inventors) (3) Isao ENDO and
(4) _____

In consideration of the sum of one dollar (\$1.00) and other good and valuable considerations paid to each of the undersigned, the undersigned agree(s) to assign, and hereby does assign, transfer and set over to

(Assignee) (5) PIONEER CORPORATION

(Address) (6) of No. 4-1 Meguro 1-chome, Meguro-ku, Tokyo-to, Japan
(hereinafter designated as the Assignee) the entire right, title and interest for the United States, its territories, dependencies and possessions, and for the country of

(Other Countries) (7) _____ in the invention, and all applications for patent and any Letters Patent which may be granted therefor, known as

(Title) (8) SENSING APPARATUS AND MOVABLE BODY-MOUNTABLE ELECTRONIC EQUIPMENT UTILIZING SAME (Case No. _____)

for which the undersigned has (have) executed on even date herewith an application for patent in the United States of America or, if not on even date, then has executed

(9) on _____ or has already filed in

(10) U.S. appln. Serial Number _____, filed on _____

(11) The undersigned acknowledges an obligation of assignment of this invention to said assignee at the time the invention was made.

1) The undersigned agree(s) to execute all papers and documents necessary in connection with the application or any interference which may be declared 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 and further to 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.

2) The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.

3) The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patent of the United States 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 he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed and will not execute, any agreement in conflict herewith.

4) The undersigned hereby grant(s) the firm of NIXON & VANDERHYE P.C. the power to insert on this assignment any further identification which may be necessary to desirable in order to comply with the rules of the United States Patent Office for recordation of this document.

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

Date Jan. 28, 2003 Signature of Inventor (1) Hitoshi Kaneko
Date Jan. 27, 2003 Signature of Inventor (2) TATSUYA OKAMOTO
Date Jan. 29, 2003 Signature of Inventor (3) ~~ISAO ENDO~~ Isao Endo
Date _____ Signature of Inventor (4) _____

Witnessed by:

Witness _____ Date _____
Witness _____ Date _____