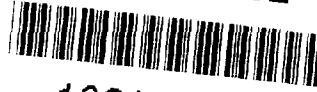


REC

08-02-2002



102177588

Our Ref.: 2382-23

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): Naoharu YANAGAWA Junji TANAKA Shin AKABANE Takakazu SUGIYAMA</p> <p>7-24-02</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: <u>July 16, 2002</u></p>	<p>2. Name and address of receiving party(ies):</p> <p>Name: Pioneer Corporation Internal Address: Street Address: No. 4-1, meguro 1-chome, Meguro-ku</p> <p>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>
---	---

JP093 U.S. PTO
10/201271
07/24/02

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: July 16, 2002

<p>A. Patent Application No(s). (1) To be assigned <u>10,201271</u> (2) (3)</p>	<p>B. Patent No(s). (1) (2) (3)</p> <p>Additional numbers attached <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
---	--

<p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p>Name: <u>Arthur R. Crawford</u></p> <p>Internal Address: _____</p> <p>Street Address: <u>Nixon & Vanderhye P.C.</u> <u>1100 North Glebe Road</u> <u>8th Floor</u></p> <p>City: <u>Arlington</u> State: <u>VA</u> Zip: <u>22201</u></p>	<p>6. Total number of applications & patents involved: <u>1</u></p> <p>7. Total fee (37 CFR 3.41) \$ <u>40.00</u> <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 <u>deficiency</u>, or credit any overpayment, 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>
---	--

DO NOT USE THIS SPACE

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.

(60) Arthur R. Crawford M. C. Wilson July 24, 2002
Name of Person Signing Signature Date
Reg. No. 25,327

Total number of pages including **original** cover sheet, attachments, and document: [3]

ARC/ecb

07/26/2002 BSAYAS11 00000034 10201271

02 FC:581

40.00 UP

ASSIGNMENT OF PATENT APPLICATION

(Inventors) Naoharu YANAGAWA, Junji TANAKA, Shin AKABANE and Takakazu SUGIYAMA

(Assignee) 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
PIONEER CORPORATION
(Address) (of No. 4-1, Meguro 1-chome, Meguro-ku, Tokyo-to, Japan (hereinafter designated as the Assignee) the undersigned's entire right, title and interest for the United States, its territories, dependencies and possessions, and for the country of
(Other Countries) (in the invention, and all application for patent and any Letters Patent which may be granted therefore, known as **INFORMATION RECORDING/REPRODUCING APPARATUS,**
(Title) (Case No) **AND PRE-PIT DETECTING METHOD**
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 (on or has already filed in (U.S. appin. Serial No. , filed on).
The undersigned acknowledges an obligation of assignment of this invention to said assignee at the time the invention was made.

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.

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.

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.

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 or desirable in order to comply with the rules of the United States Patent Office for recordation of this document. It is understood and agreed that ASSIGNEE'S attorneys Nixon & Vanderhye P.C. have represented only ASSIGNEE and will continue to represent only ASSIGNEE with respect to this invention.

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

Date	<u>July 16, 2002</u>	Signature of inventor	(<u>Naoharu Yanagawa</u> Naoharu YANAGAWA
Date	<u>July 16, 2002</u>	Signature of inventor	(<u>Junji Tanaka</u> Junji TANAKA
Date	<u>July 16, 2002</u>	Signature of inventor	(<u>Shin Akabane</u> Shin AKBANE
Date	<u>July 16, 2002</u>	Signature of inventor	(<u>Takakazu Sugiyama</u> Takakazu SUGIYAMA
Date	_____	Signature of inventor	(_____
Date	_____	Signature of inventor	(_____
Date	_____	Signature of inventor	(_____
Date	_____	Signature of inventor	(_____
Date	_____	Signature of inventor	(_____
Date	_____	Signature of inventor	(_____
Date	_____	Signature of inventor	(_____
Date	_____	Signature of inventor	(_____
Date	_____	Signature of inventor	(_____
Date	_____	Signature of inventor	(_____
Date	_____	Signature of inventor	(_____

Witnessed by: _____

Witnessed by: _____

Witnessed by: _____

Date _____

Date _____

Date _____