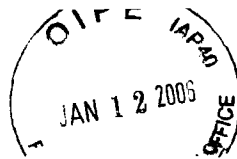


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To the Director of the U.S. Patent and Trademark Office: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies): Takao TAGIRI Seiro OSHIMA Additional name/s of conveying party/ies attached? ☐ 3. Nature of conveyance: ☒ Assignment ☐ Merger ☐ Security Assignment ☐ Change of Name ☐ Other Execution Date: Dec. 20, 2005		2. Name and address of receiving party(ies): (1) Name: PIONEER CORPORATION Street Address: 4-1, Meguro 1-chome City: Meguro-ku, Tokyo State/Country: Japan Zip: (2) Name: Street Address: City: State/Country: Zip: Additional name/s & address/es attached? ☐ Yes ☒ No	
4. Application number(s) or patent number(s): ☐ This assignment is being filed together with a new application. A. Patent Application No(s). (1) 11/301,245 (2) (3) Additional numbers attached ☐ Yes ☒ No B. Patent No(s). (1) (2) (3)		6. Total number of applications & patents involved: 1 7. Total fee (37 CFR 3.41) \$ 40.00 ☒ CREDIT CARD ☐ Authorized to be charged to deposit account #14-1140 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.	
5. Name and address of party to whom correspondence concerning document should be mailed: Name: Arthur R. Crawford Internal Address: Street Address: Nixon & Vanderhye P.C. 901 North Glebe Road 11th Floor City: Arlington State: VA Zip: 22203			
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. Arthur R. Crawford Name of Person Signing Reg. No. 25,327 Signature January 12, 2006 Date Total number of pages including original cover sheet, attachments, and document: [3]			

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, VA 22313-1450

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PATENT
REEL: 017451 FRAME: 0745

ASSIGNMENT OF PATENT APPLICATION

(Inventors) Takao TAGIRI and Seiro OSHIMA of Yamanashi, Japan

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) PIONEER CORPORATION
(Address) (of 4-1, Meguro 1-chome, Meguro-ku, Tokyo, 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
(in the invention, and all application for patent and any Letters Patent which may be granted therefore, known as
(Title) (Case No) OFFSET AMOUNT MEASURING METHOD AND APPARATUS

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. appln. Serial No. 11/301,245 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>Dec. 20, 2005</u>	Signature of inventor	(<u>Takao Tagiri</u>
Date <u>Dec. 20, 2005</u>	Signature of inventor	(<u>Seito Oshima</u> Takao TAGIRI Seito OSHIMA
Date _____	Signature of inventor	(_____
Date _____	Signature of inventor	(_____
Date _____	Signature of inventor	(_____
Date _____	Signature of inventor	(_____
Date _____	Signature of inventor	(_____
Date _____	Signature of inventor	(_____
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Date _____	Signature of inventor	(_____

Witnessed by: _____

Date _____

Witnessed by: _____

Date _____

Witnessed by: _____

Date _____