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1. Name of conveying party(ies):	2. Name and address of receiving party(ies):
1 Takanori MAEDA 5	
2 Kiyoshi TATEISHI 6	1) Name: PIONEER CORPORATION
3 7	Street Address: 4-1, Meguro 1-chome, Meguro-ku
8	City: Tokyo
	State/Country: Japan Zip: 153-8654
Additional name/s of conveying party/ies attached?	, .
3. Nature of conveyance:	2) Name
Assignment	Street Address:
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Execution Date: November 26, 2008 (all)	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).	B. Patent No(s).
(1) 12/297,421	(1)
(2)	(2)
(3)	(3)
Additional numbers attached Yes No 5. Name and address of party to whom correspondence 6. Total number of applications & patents involved: 1	
concerning document should be mailed:	o. Total number of applications & patents involved.
concerning document should be maned.	7. Total fee (37 CFR 3.41) \$ 40.00
Name: Arthur R. Crawford	Enclosed
	Authorized to be charged to deposit account #14-1140
Internal Address:	
	8. The Commissioner is hereby authorized to charge any
Street Address: Nixon & Vanderhye P.C.	deficiency in the fee(s) filed, or asserted to be filed, or which
901 North Glebe Road	should have been filed herewith (or with any paper thereafter
11th Floor	filed in this application by this firm) to our Account No.
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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	
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Arthur R. Crawford	December 5, 2008
	nature Date
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Total number of pages including original cover sheet, attachments, and document: [3]	

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12/10/2008 MJAMA1 00000007 12297421 01 FC:8021 40.00 OP

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PATENT

REEL: 021959 FRAME: 0955

ASSIGNMENT OF PATENT APPLICATION

(Inventors) Takanori MAEDA and Kiyoshi TATEISHI of Saitama, 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) (Address) PIONEER CORPORATION

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 (Other () in the invention, and all application for patent and any Letters Patent which may be granted therefore, known as (Case No.)

INFORMATION RECORDING / REPRODUCING 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. 12/297,421 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.

PATENT REEL: 021959 FRAME: 0956

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

signature(s).

RECORDED: 12/05/2008