<u>As</u>	sistant Commissioner for Patents: Please record the at		
1.	Name of conveying party(ies): Hiroki KURIBAYASHI and Shogo MIYANABE	2.	Name and address of receiving party(ies): Pioneer Electronic Corporation
	Additional name(s) attached? ☐ Yes ■ No	PE	4-1, Meguro 1-chome Meguro-ku, Tokyo, JAPAN
3.	Nature of conveyance: ■ Assignment May	1 1 1999	dditional names/addresses attached? ☐ Yes ■
	☐ Merger ☐ Security Agreement	PADEMARK O	05-20-1999
	☐ Change of Name ☐ Other:		
	Execution Date: March 25, 1999		101040846
	If this document is being filed with a new application, A. Patent Application No.(s): 09/262,352		ution date of the application is: Patent No.(s):
	Additional numbers	attached	? □ Yes ■ No
5.	Additional numbers Name/address of party to whom correspondence concerning document should be mailed:		? □ Yes ■ No Total number of applications/patents involved: 1
5.	Name/address of party to whom correspondence	6.	Total number of applications/patents involved: 1 Total fee (37 CFR 3.41): \$40
5.	Name/address of party to whom correspondence concerning document should be mailed: John C. Phillips Fish & Richardson P.C. 601 Thirteenth Street, N.W.	6.	Total number of applications/patents involved: 1
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5. 12/ 1	Name/address of party to whom correspondence concerning document should be mailed: John C. Phillips Fish & Richardson P.C. 601 Thirteenth Street, N.W. Washington, DC 20005	6. 7.	Total number of applications/patents involved: 1 Total fee (37 CFR 3.41): \$40 ■ Enclosed □ Authorized to charge deposit account Deposit account number: 06-1050 If the fee above is being charged to deposit
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PATENT REEL: 009952 FRAME: 0756

ASSIGNMENT

In consideration of the sum of ten dollars (\$10.00) and other good and valuable consideration paid to each of the undersigned, the undersigned agree to assign, and hereby do assign, transfer, and set over to:

Pioneer Electronic Corporation

having the address:

4-1, Meguro 1-chome, Meguro-ku, Tokyo, Japan

(hereinafter designated as the "ASSIGNEE") the entire right, title, and interest for the United States and all foreign countries (including protection in foreign countries via the Patent Cooperation Treaty), in the invention, and all applications for patent and any Letters Patent which may be granted therefor, the application being known by the Title:

WAVEFORM EQUALIZER AND DATA REPRODUCING APPARATUS USING THE SAME

for which application for Letters Patent of the United States was executed on even date herewith unless otherwise indicated below:

filed on _	March 4,	1999
	•	
serial No.	09/262,	352

- 1. The undersigned agree to execute all papers necessary in connection with the application and any continuing or devotional applications thereof and also to execute separate assignments in connection with such applications as the ASSIGNEE may deem necessary or expedient.
- 2. The undersigned agree to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation or division thereof and to cooperate with the ASSIGNEE in every way possible in obtaining evidence and going forward with such interference.
- 3. The undersigned agree to execute all papers and documents and 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.
- 4. The undersigned agree to perform all affirmative acts which may be necessary to obtain a grant of a valid United states patent to the ASSIGNEE.

PATENT REEL: 009952 FRAME: 0757

5. The undersigned hereby authorize and request the commissioner of Patents in the Unite States and the appropriate national or regional authority in each foreign country to issue any and all Letters Patents 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 they have full right to convey the entire interest herein assigned, and that they have not executed and will not execute, any agreement in conflict herewith.

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

The undersigned hereby authorize the firm of

FISH & RICHARDSON P.C. at the address of 601 Thirteenth Street, N.W., Washington, D.C. 20005, U.S.A.

to insert hereon any further identification necessary or desirable for recordation of this document.

Mar. 25. 1999 Hiroki Kuribayashi

Typed Name: Hiroki KURIBAYASHI

Mar 25. 1999 Shogo Miyanabe

Typed Name: Shogo MIYANABE