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U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

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	Attorney Docket No.: 041514-5054
To the Assistant Commissioner for Patents: Please record the attached original documents or copy the	ereof. ATTN: BOX ASSIGNMENT
1. Name of conveying party(ies):	2. Name and address of receiving party(ies):
Kazuo KURODA	Name: Pioneer Electronic Corporation
Additional name(s) of conveying party(ies) attached? Yes X No	Internal Address:
3. Nature of conveyance:	Street Address: 4-1, Meguro 1-chome, Meguro-ku, Tokyo, JAPAN
 X Assignment Merger Security Agreement Change of Name Other 	City: State: Zip:
Execution Date: December 21, 1998	Additional name(s) & address(es) attached? Yes _X No
4. Application number(s) or patent number(s):	
09721700	elication the execution date of the application is: ember 21, 1998 B. Patent No.(s)
5. Name and address of party to whom corresponde concerning document should be mailed:	6. Total number of applications and patents involved: 1
Name: Mr. Robert J. Gaybrick	7. Total fee (37 C.F.R §3.41): <u>\$40.00</u>
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Street Address: 1800 M Street, N.W. City: Washington State: D.C. Zip: 20036	8. Deposit account number: 50-0310 Attach duplicate of page if paying by deposit account
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To the best of my knowledge and belief, the fore the original document. John G. Smith Name of Person Signing	egoing information is true and correct and any attached copy is a true copy of January 8, 1999 Date
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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:

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

filed o	on	 	 	
serial	No.		 	

- 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.

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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

MORGAN, LEWIS, BOCKIUS LLP at the address of 1800 M Street, N.W., Washington, D.C. 20036-5869, U.S.A.

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

December 21

Date

Typed Name: Kazuo KURODA