FORM PTO-1595 (Rev. 6-93) 12-24-	1998 U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office
DEC 1 7 1998 1 100925	Attorney Docket No.: 041514-5052
Please record the attached original documents or copy thereof.	ATTN: BOX ASSIGNMENT
1. Name of conveying party(ies): MLD 12-17-98	2. Name and address of receiving party(ies):
1. Shogo MIYANABE 2. Hiroki KURIBAYASHI	Name: Pioneer Electronic Corporation
Additional name(s) of conveying party(ies) attached? <u>Yes</u> <u>X</u> No	Internal Address:
3. Nature of conveyance: X AssignmentMerger	Street Address: 4-1, Meguro 1-chome, Meguro-ku, Tokyo, Japan
Security Agreement Change of Name Other	City: State: Zip:
Execution Date: <u>November 24, 1998 and November 20, 1998</u>	Additional name(s) & address(es) attached? <u>Yes</u> <u>X</u> No
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:	
A. Patent Application No.(s): 09/166,529 B. Patent No.(s)	
Additional numbers attached: Yes X No	
5. Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: <u>1</u>
Name: Mr. Robert J. Gaybrick	7. Total fee (37 C.F.R §3.41): <u>\$40.00</u>
Internal Address: Customer No. 009629 Morgan, Lewis & Bockius LLP	<u>X</u> Enclosed Authorized to be charged to deposit account 50-0310
Street Address:1800 M Street, N.W.City: WashingtonState: D.C.Zip: 20036	<ol> <li>Deposit account number: 50-0310 Attach duplicate of page if paying by deposit account</li> </ol>
9. Statement 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.	
J. Michael TheszM. HungDecember 17, 1998Name of Person SigningSignatureDate	
Total number of pages including cover sheet, attachments and documents: <u>3</u>	

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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 on October 6, 1998 ,

Serial No. <u>09/166,529</u>

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.

5. The undersigned hereby authorize and request the commissioner of Patents in the United 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 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.

Nov. 24. 1998 Date

Shogo Miyanahe Typed Name: Shogo MIYANABE

Nov. 20, 1998 Date

Hiroki Kuribayashi Typed Name: Hiroki KURIBAYASHI

Date

Typed Name:

Date

Typed Name:

Date

Typed Name:

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PATENT REEL: 9653 FRAME: 0877

**RECORDED: 12/17/1998**