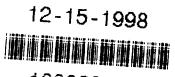
Form PTO-1595 RECORDATION FORM COVER SHEET F



100920191

ment of Commerce rademark Office

ocket No. P7156-8061 ember 30, 1998



To the Honorable Commissioner of Please record the attached original	
1. Name of conveying party(ies) Hiroyuki MITOMO Additional name(s) of conveying party(ies) attached? Yes xx No 3. Nature of conveyance: xx Assignment	2. Name and address of receiving party(ies): Name: PIONEER ELECTRONIC CORPORATION Address: 4-1 Meguro 1-chome
A. Patent Application No.(s) Additional numbers attached	B. Patent No.(s)
5. Name and address of party to whom correspondence concerning document should be mailed: Name: Nikaido, Marmelstein, Murray & Oram LLP Street Address: Metropolitan Square, 655 Fifteenth Street, N.W., Suite 330 - G Street Lobby /1398 DNASH: 00000017 09201125 Washington, D.C. 20005-5701 1531: 40.00 @	6. Total number of applications and patents involved: One 7. Total fee (37 CFR 3.41)
DO NOT USE TH	IS SPACE
9. Statement and signature. To the best of my knowledge and belief, the foregoing information is trucopy of the original document. David T. Nikaido Name of Person Signing Reg. No. 22,663 Total number of page	November 30, 1998 Date Date Date Ages including cover sheet, attachments, and document: 2

PATENT REEL: 9631 FRAME: 0489

Docket No.	
DOULUL TO.	

U.S. ASSIGNMENT

LIOUEET DIE	ectronic Corporation	
of 4-1 Meguro	l-chome, Meguro-ku, Tokyo, J	apan
	eipt of which is hereby acknowledged, to ASSIGNEE the entire and exclusive tel."	
for which application for Letters Fotherwise indicated below:	Patent of the United States was executed of	on even date herewith unless
*filed on	, Serial No	
(Nikaido, Marmelstein, I number and/or filing date hereon,	Murray & Oram is hereby authorized to when known)	insert the serial code, serial
and all Letters Patent of the United division, renewal, substitute, reiss same may be granted.	States to be obtained therefor on said applicate or reexamination thereof for the full to	lication or any continuation, term or terms for which the
	. owooute all assess assess	
continuing, divisional, reissue or assignments in connection with such that the ASSIGNOR agrees to litigation, or other legal process continuation, division, reissue or reand to cooperate with the ASSIGN	execute all papers necessary in connection reexamination applications thereof and the applications as the ASSIGNEE may determ to execute all papers necessary in connecting which may be declared concerning examination thereof or Letters Patent or review to every way possible in obtaining a litigation, or other legal proceeding.	d also to execute separate eem necessary or expedient. ction with any interference, ag this application or any eissue patent issued thereon
The ASSIGNOR agrees to itigation, or other legal proceed continuation, division, reissue or reand to cooperate with the ASSIGNOR proceeding with such interference,	reexamination applications thereof and the applications as the ASSIGNEE may determine the applications as the ASSIGNEE may determine the applications as the ASSIGNEE may determine the application and the application are the application are the application are the application are the applications as the ASSIGNEE may determine the applications are the applications as the ASSIGNEE may determine the applications are the applications as the ASSIGNEE may determine the applications are the applications as the applications are the a	d also to execute separate sem necessary or expedient. ction with any interference, ng this application or any eissue patent issued thereon and producing evidence and
The ASSIGNOR agrees to itigation, or other legal proceed continuation, division, reissue or restricted to cooperate with the ASSIGNOR cooperate with the ASSIGNOR cooperate with the ASSIGNOR cooperate with such interference, N WITNESS WHEREOF, the uncompared to the cooperate with such interference, and the cooperate with such interference, which will be a successful to the cooperate with the ASSIGNOR COOPERATE WHEREOF, the uncompared to the cooperate with such interference, which will be a successful to the cooperate with the cooperate with such interference.	reexamination applications thereof and the applications as the ASSIGNEE may describe the applications are declared concerning which may be declared concerning examination thereof or Letters Patent or respectively. WEE in every way possible in obtaining a litigation, or other legal proceeding.	d also to execute separate tem necessary or expedient. Etion with any interference, and this application or any eissue patent issued thereon and producing evidence and this her/their signature(s).
The ASSIGNOR agrees to itigation, or other legal proceed continuation, division, reissue or recontinuation, division, reissue or recond to cooperate with the ASSIGN proceeding with such interference, N WITNESS WHEREOF, the unit	reexamination applications thereof and the applications as the ASSIGNEE may determine the applications as the ASSIGNEE may determine the applications as the ASSIGNEE may determine the application and the application are the application are the application are the application are the applications as the ASSIGNEE may determine the applications are the applications as the ASSIGNEE may determine the applications are the applications as the ASSIGNEE may determine the applications are the applications as the applications are the a	d also to execute separate tem necessary or expedient. Etion with any interference, and this application or any eissue patent issued thereon and producing evidence and this her/their signature(s).
The ASSIGNOR agrees to itigation, or other legal proceed continuation, division, reissue or restricted to cooperate with the ASSIGNOR coceeding with such interference, N WITNESS WHEREOF, the uncompared to the cooperate with the ASSIGNOROCCE AND WITNESS WHEREOF, the uncompared to the cooperate with such interference, which will be a cooperate with the ASSIGNOROCCE AND WITNESS WHEREOF, the uncompared to the cooperate with the cooperate with such interference, which will be a cooperate with the cooperate	reexamination applications thereof and the applications as the ASSIGNEE may describe the applications are declared concerning which may be declared concerning examination thereof or Letters Patent or reverse in every way possible in obtaining a litigation, or other legal proceeding. The applications as the ASSIGNEE may declare the applications are declared to examination thereof or Letters Patent or reverse in every way possible in obtaining a litigation, or other legal proceeding. The applications as the ASSIGNEE may describe the applications are the applications as the ASSIGNEE may declared the applications are the applications as the ASSIGNEE may declared the applications are the applications a	d also to execute separate tem necessary or expedient. It is not to make the many interference, and this application or any eissue patent issued thereon and producing evidence and this/her/their signature(s). November 18, 199
The ASSIGNOR agrees to itigation, or other legal proceed continuation, division, reissue or restriction with such that the ASSIGNOR agrees to itigation, or other legal proceed continuation, division, reissue or restrict to cooperate with the ASSIGN proceeding with such interference, N WITNESS WHEREOF, the uncompact of the interference (SIGNATURE)	ch applications as the ASSIGNEE may de chapplications as the ASSIGNEE may de concernition execute all papers necessary in connecting which may be declared concernition examination thereof or Letters Patent or respectively. When the every way possible in obtaining a litigation, or other legal proceeding. Hiroyuki MITOMO (TYPE NAME)	d also to execute separate tem necessary or expedient. Setion with any interference, and this application or any eissue patent issued thereon and producing evidence and this/her/their signature(s). November 18, 199 (DATE)
The ASSIGNOR agrees to itigation, or other legal proceed continuation, division, reissue or restricted with such that the ASSIGNOR agrees to itigation, or other legal proceed continuation, division, reissue or restricted with the ASSIGNOROCCE with the ASSIGNOROCCE with such interference, N. WITNESS WHEREOF, the unit of the complete of the with the ASSIGNOROCCE (SIGNATURE)	reexamination applications thereof and the applications as the ASSIGNEE may describe the application and the application of the applications as the application of the applications as the applications are applications as the applications are applications as the applications are applications as the applications as the applications are applications are applications as the applications are applications as the applications are applications are applications are applications. Historication applications are applications are applications are applications are applications are applications. The application are applications are applications are applications are applications are applications. Historication applications are applications are applications are applications are applications. The application are applications are applications are applications are applications are applications. The applications are applications are applications are applications are applications are applications. The applications are applications are applications are applications are applications are applications. The applications are applications are applications are applications are applications are applications. The applications are applications. The applications are applications are applications are applications are applications are applications. The applications are applications are applications are ap	d also to execute separate tem necessary or expedient. Setion with any interference, age this application or any eissue patent issued thereon and producing evidence and this/her/their signature(s). November 18, 199 (DATE)
The ASSIGNOR agrees to itigation, or other legal proceed continuation, division, reissue or restricted to cooperate with the ASSIGNOR or occeeding with such interference, N WITNESS WHEREOF, the uncompany of the cooperate with the ASSIGNOR of the cooperate with the ASSIGNOR of the cooperate with such interference, N WITNESS WHEREOF, the uncompany of the cooperate with the ASSIGNOR OF THE COOPERATION (SIGNATURE)	reexamination applications thereof and the applications as the ASSIGNEE may describe applications as the ASSIGNEE may describe a possible in a paper of the examination thereof or Letters Patent or respectively. The every way possible in obtaining a litigation, or other legal proceeding. Hiroyuki MITOMO (TYPE NAME) (TYPE NAME)	d also to execute separate tem necessary or expedient. Setion with any interference, and this application or any eissue patent issued thereon and producing evidence and tis/her/their signature(s). November 18, 199 (DATE) (DATE)
The ASSIGNOR agrees to itigation, or other legal proceed continuation, division, reissue or restricted to cooperate with the ASSIGNOR or occeeding with such interference, N WITNESS WHEREOF, the uncompared to the cooperate with the ASSIGNOR of the cooperate with the ASSIGNOR OF THE COOPERATE COOP	ch applications as the ASSIGNEE may deen application as the ASSIGNEE may deep declared concerning which may be declared concerning examination thereof or Letters Patent or respectively. When the second proceeding and integration, or other legal proceeding. The ASSIGNEE may deep declared concerning the second proceeding and integration and integration and integration are the ASSIGNEE may deep declared concerning as the ASSIGNEE may declared concerning as the ASS	d also to execute separate tem necessary or expedient. Settion with any interference, and this application or any eissue patent issued thereon and producing evidence and this/her/their signature(s). November 18, 199 (DATE) (DATE)

NO LEGALIZATION REQUIRED

PATENT REEL: 9631 FRAME: 0490

RECORDED: 11/30/1998

[Insert ASSIGNEE's Name(s) Address(es)]

[Title of Invention]

[Signature(s)]

[*If the assignment is being filed after the filing of the application, this section must be completed]