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J.S. DEPARTMENT OF COMMERCE

Patent and Trademark Office

SHEET

	Attorney Docket No.: 041405-5108			
To the Commissioner for Patents Please record the attached original documents or copy ther	reof. ATTN: BOX ASSIGNMENT			
1. Name of conveying party(ies):	2. Name and address of receiving party(ies):			
1. Name of conveying party(ics).				
Yoshio SASAKI	Name: PIONEER CORPORATION			
Hiroyuki TANAKA				
Hiroyuki UCHINO	Internal Address:			
Tadashi UEDA	internal Address.			
Additional names of conveying party(ies) attached?				
[ ] Yes [X] No	Street Address: No. 4-1 Meguro 1-chome, Meguro-ku,			
	Tokyo-to, Japan			
3. Nature of conveyance:	City:			
[V] Assignment	State: Zip:			
[X] Assignment [ ] Merger [ ] Security Agreement [ ] Change of Name				
[ ] Other	Additional name(s) & address(es) attached?			
Execution Date: August 27, 2002	[ ]Yes [X] No			
4. New Application number(s) or patent number(s): NE	W APPLICATION			
4. New Application lumber(s) of patent number(s). The	WAITECATION			
If this document is being filed together with a new applica	tion the execution date of the application is:			
	27.0002			
· · · · · · · · · · · · · · · · · · ·	t 27, 2002 B. Patent No. (a)			
A. Patent Application No.(s)  B. Patent No.(s)				
Additional numbers attached: [ ] Yes [X] No	012525 11			
/ 2				
5. Name and address of party to whom	6. Total number of applications and patents involved: 1			
correspondence concerning document should be mailed:				
maneu.	7. Total fee (37 C.F.R. §3.41): <u>\$40.00</u>			
Name: John G. Smith	[] Enclosed			
	[ X] Authorized to be charged to Deposit Account 50-0310			
Internal Address: Morgan, Lewis & Bockius LLP	8. Deposit Account No. 50-0310			
Customer No. 09629	(Attach duplicate page if paying by deposit account)			
Street Address: 1111 Pennsylvania Avenue, N.W.				
City: Washington State: D.C. Zip: 20004				
9. Statement and Signature				
	ormation is true and correct and any attached copy is a true			
copy of the original document.	· · · · · · · · · · · · · · · · · · ·			
John G. Smith Reg. No. 33,818	September 24, 2002			
Name of Person Signing Signature	Date			
Total n	umber of pages including cover sheet, attachments and documents: 3			
MUELLER 00000036 500310 10252571				

**PATENT REEL: 013322 FRAME: 0417** 

ATTORNEY DOCKET NO.: SOLE/JOINT INVENTION (U.S. Rights Only)

## **ASSIGNMENT**

		•
WHEREAS I/We, the below named inven	ntor(s), [hereinafter referred to as Assignor(s)]	, have made an invention entitled:
DATA RECORDING APPARATUS		
for which I/WE executed an application for United States Letters Patent on(Serial )	States Letters Patent concurrently herewith; No	or filed an application for United
WHEREAS, PIONEER CORPORATIOn address is No. 4-1 Meguro 1-chome, Meguro-ku, the entire right, title, and interest in and to this invalueters Patent to be issue upon this application;		s Assignee), is desirous of securing
NOW THEREFORE, be it known that, fo acknowledged, I/WE, as assignor(s), have sold, assover unto the assignee, its lawful successors and as application, and all divisions, and continuations the and all reissues thereof; and I/WE hereby authorize to issue all Letters Patent for this invention to assignment;	ssigns, MY/OUR entire right, title, and interestered, and all Letters Patent of the United State and request the Commissioner of Patents and	by sell, assign, transfer, and set st in and to this invention and this ites which may be granted thereon, d Trademarks of the United States
assignee, its successors and assigns, any facts know all lawful papers when called upon to do so, executo this invention in said assignee, its successors and rightful oaths and generally do everything possible protection for this invention in the United States, it shall be borne by the assignee, its successors and a AND, I/WE HEREBY authorize and reque	te and deliver all papers that may be necessard assigns, execute all divisional, continuation, to aid assignee, its successors and assigns, to the being understood that any expense incident assigns.  The est the attorneys I/WE have empowered in the	stify in any legal proceeding, sign ry or desirable to perfect the title , and reissue applications, make all o obtain and enforce proper patent to the execution of such papers e Declaration and Power of
Attorney in this application, to insert here in paren and application number of said application when k		the filing date September 24, 2002
IN TESTIMONY WHEREOF, VWE have		september 24, 2002
Full Name of Sole or First Assignor Yoshio SASAKI	Assignor's Signature Yoshio Sasaki	Date 8.27. 2002
Address c/o Pionéer Corporation, To Hanazono 4-chome, Tokorozav	okorozawa Works. No. 2610 wa-shi, Saitama-ken, Japan	Citizenship Japanese
Full Name of Second Assignor Hiroyuki TANAKA	Assignor's Signature Hiroyuki Tanaka	Date 8. 27. 2002.
Address c/o Pioneer Corporation, To Hanazono 4-chome, Tokorozav	okorozawa Works. No. 2610	Citizenship Japanese
Names of additional inventors attached $[X]$ Yes	[ ] No	

MORGAN, LEWIS & BOCKIUS

WA01/194585.1

PATENT REEL: 013322 FRAME: 0418

ATTORNEY DOCKET NO.: 041465-5021

ASSIGNMENT

	•
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Full Name of Third Assignor	Assignor's Signature	Date
Hiroyuki UCHINO	Hiroyuki Uchino	8.27 2002,
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Full Name of Fourth Assignor	Assignor's Signature	Date
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Full Name of Fifth Assignor	Assignor's Signature	Date
Address:		Citizenship
Full Name of Sixth Assignor	Assignor's Signature	Date
Address:		Citizenship
Names of additional inventors attached [ ] Y		

Morgan, Lewis & Bockius LLP

WA01A/96784.1

**RECORDED: 09/24/2002** 

**PATENT REEL: 013322 FRAME: 0419**