5115 FORM PTO-1595 (Rev. 6-93) 08 - 14 - 2	TATATA	
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We de ton. S	Attorney Docket No.: 041514-5118	
To the Commissioner for Patents: Please record the attached original documents or copy thereof.	ATTN: BOX ASSIGNMENT	
1. Name of conveying party(ies):	2. Name and address of receiving party(ies):	
 Takao SHIMAMURA Takashi SASAKI Kenichi TAKAHASHI Yoshihiro HASHIZUKA Keoichi KIKUCHI Shinya HONJOU Takashi SUZUKI Hideaki YOSHIMURA 	Name: PIONEER CORPORATION Internal Address:	
Additional name(s) of conveying party(ies) attached? Yes _X No		
3. Nature of conveyance: X Assignment Merger Security Agreement Change of Name Other	Street Address: 4-1, Meguro 1-chome, Meguro-ku, Tokyo, Japan City: State: Zip:	
Execution Date: June 11, 2001, June 11, 2001, June 12, 2001, June 11, 2001, June 11, 2001, June 11, 2001, June 11, 2001	Additional name(s) & address(es) attached? YesX_ 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): 09/836,456	B. Patent No.(s)	
Additional numbers attached:YesXNo		
5. Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: 1	
Name: John G. Smith	7. Total fee (37 C.F.R §3.41):\$40.00_	
Internal Address: Customer No. 009629 Morgan, Lewis & Bockius LLP	_X Enclosed Authorized to be charged to deposit account 50-0310	
Street Address: 1800 M Street, N.W. City: Washington State: D.C. Zip: 20036	Deposit account number: 50-0310 Attach duplicate of page if paying by deposit account	
9. Statement and Signature		
To the best of my knowledge and belief, the foregoing inform the original document.	nation is true and correct and any attached copy is a true copy of	
John G. Smith Name of Person Signing Reg. No. 33,818 Total number	August 6, 2001 Date of pages including cover sheet, attachments and documents: _3	

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PATENT REEL: 012057 FRAME: 0904

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 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:

SERVO CONTROL APPARATUS FOR OPTICAL DISC PLAYER

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

filed on _	April 18, 2001	,
serial No.	09/836,456	

- 1. The undersigned agree to execute all papers necessary in connection with the application and any continuing or divisional 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.

Page 1 of 2

PATENT REEL: 012057 FRAME: 0905 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.

June 11, 2001 Date	Takao Shimamura Typed Name: Takao SHIMAMURA
June 11. 200/ Date	Takashi Sasaki Typed Name: Takashi SASAKI
June 12, 2001 Date	Keníchí Takahashí Typed Name: Kenichi TAKAHASHI
June // 200/	Yoshikiro Hashiyuka Typed Name: Yoshihiro HASHIZUKA
June 11 2001 Date	Koichi Kikuchi Typed Name: Koichi KIKUCHI
June 11, 200 / Date	Shinya Honjou Typed Name: Shinya HONJOU
June 11.200/	Takashi Suzuki Typed Name: Takashi SUZUKI
June 11,200/	Ididaki Yoshimurg Typed Name: Hideaki YOSHIMURA

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PATENT REEL: 012057 FRAME: 0906