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To the Hon. Commissioner of Patents & Trademarks: I thereof.	Please record the attached original documents or copy
1. Name of conveying party(ies): Kazunori MATSUO, Teruo TAKAHASHI, Yoshimichi NISHIO, Yasutaka SUZUKI, Hideaki WATARIHANA, Hiroki GOTO, Tomomichi KIMURA, Susumu YOSHIDA, Hiroyuki KOBAYASHI, Hidetsugu KUBOTA and Takuya ABE Additional name(s) of conveying party(ies) attached? Yes X No 3. Nature of conveyance: [X] Assignment [] Merger [] Security Agreement [] Change of Name	2. Name and address of receiving party(ies): Name: PIONEER CORPORATION Street Address: No. 4-1 Meguro 1-chome, Meguro-ku, Tokyo-to, Japan
[] Other Execution Dates: September 28, 2000	09/672085
applications are: September 28, 2000 A. Patent Application No(s).	a new application, the execution dates of the 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:
YOUNG & THOMPSON Second Floor 745 South 23rd Street Arlington, VA 22202	7. Total fee (37 CFR 3.41)\$ 40 [X] Enclosed [] Authorized to be charged to deposit account
	8. Deposit Account No. 25-0120 (Attach duplicate copy of this page if paying by deposit account)
DO NOT US	SE THIS SPACE
9. Statement and signature. To the best of my knowledge and belief, the any attached copy is a true copy of the original.	e foregoing information is true and correct and inal document.
Mary Shelton Makey	Shelton September 29, 200
Name of Person Signing	Śignature S Date
	Total number of pages including cover sheet: [2]

PATENT REEL: 011161 FRAME: 0609

ASSIGNMENT

FOR ONE DOLLAR (\$1.00) and other valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I (We), Kazunori MATSUO, Teruo TAKAHASHI, Yoshimichi NISHIO, Yasutaka SUZUKI, Hideaki WATARIHANA, Hiroki GOTO, Tomomichi KIMURA, Susumu YOSHIDA, Hiroyuki KOBAYASHI, Hidetsugu KUBOTA and Takuya ABE

being the inventor(s) of certain improvements in APPARATUS AND METHOD FOR DETECTING ABNORMAL INSERTION OF DISC BODY TO BE APPARATUS.

hereby assign unto PIONEER CORPORATION

having a principal place of business at No. 4-1 Meguro 1-chome, Meguro-ku, Tokyo-to, Japan our entire right, title and interest in and to such invention, together with the patent rights and rights of protection to the same throughout the world, including any patent rights which may result from the application for United States Letters Patent in and to any and all divisions, reissues, continuations and extensions thereof and in and to any Letters Patent that may be granted thereon; said invention, application and Letters Patent that may be granted thereon; said invention, application and Letters Patent to be held and enjoyed by the said assignee for its own use and behoof and for the use and behoof of its successors and assigns, to the full end of the term from which said Letters patent or other rights of protection may be granted, as fully and as entirely as the same would have been held and enjoyed by us had this assignment and sale not been made.

WE COVENANT, AGREE AND WARRANT that we have a full and unencumbered title to the invention hereby assigned, and we further covenant and agree that we will, at any time upon request, without further compensation, execute and deliver any and all papers or instruments that in the opinion of the assignee may be necessary or desirable to secure said assignee the full enjoyment of the rights and properties herein conveyed or intended to be conveyed.

IN WITNESS WHEREOF, we have hereunto set out hand and seal this 28th day of September , $2000\,$.

Date: September 28, 2000	Date: September 28, 2000
Kazunori Matsuo	Teruo Takahashi
Vosnimiski Vishbo	Vasataka Sazaki
Mideaki Waterihana	Hiroki Goto
Date: September 28, 2000	Date: September 28, 2000
Date: September 28, 2000	Hidetsugu Kubota
Takuya Abe	Date:

RECORDED: 09/29/2000

PATENT REEL: 011161 FRAME: 0610