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To the Hon. Commissioner of Pa

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thereof. Name of conveying party(ies): 2. Name and address of receiving party(ie Yoshimi TOMITA Name: PIONEER CORPORATION Additional name(s) of conveying party(ies) attached? Il Yes [X] No Street Address: 3. Nature of conveyance: No. 4-1 Meguro 1-chome, Megu¥o ku, Tokyo-to, Japan [X] Assignment [] Merger [] Security Agreement [] Change of Name [] Other Execution Date: October 4, 1999 4. Application number(s) or patent (numbers): If this document is being filed together with a new application, the execution date of the application is: October 4, 1999 A. Patent Application No(s). B. Patent No(s). Additional numbers attached? [1 Yes [X] No 5. Name and address of party to whom corre-6. Total number of applications and patents spondence concerning document should involved: be mailed: 1 7. Total fee (37 CFR 3.41).....\$ 40 YOUNG & THOMPSON [X] Enclosed Second Floor Il Authorized to be charged to deposit 745 South 23rd Street account Arlington, VA 22202 8. Deposit Account No. 25-0120 (Attach duplicate copy of this page if paying by deposit account) DO NOT USE THIS SPACE

Statement and sign	iature.	
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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.

Mary Shelton Name of Person Signing Signature

Total number of pages including cover sheet: [2]

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ASSIGNMENT

FOR ONE DOLLAR (\$1.00) and other valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I (We), Yoshimi TOMITA

being the inventor(s) of certain improvements in RECORD MEDIUM, RECORD MEDIUM MANUFACTURING APPARATUS AND INFORMATION RECORDING/REPRODUCING 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 4th day of October , 1999 .

Date:
Date:
Date:

PATENT REEL: 010323 FRAME: 0045