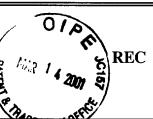
FORM PTO-1595 (Rev. 6-93)



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Attorney Docket No.: 041514-5102

| 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):  |
| <ol> <li>Takanori MAEDA</li> <li>Hiroyuki OTA</li> </ol>   | Name: PIONEER CORPORATION   |
| Additional name(s) of conveying party(ies) attached?  Yes X No  3-/4-0/  | Internal Address:   |
| 3. Nature of conveyance:   | Street Address: 4-1, Meguro 1-chome, Meguro-ku, Tokyo, Japan  City: State: Zip:                         |
| Execution Date:February 13, 2001   | Additional name(s) & address(es) attached?  YesX_ No  |
| <ul> <li>4. Application number(s) or patent number(s):</li> <li>If this document is being filed together with a new application to a patent Application No.(s): 09/739,646</li> <li>Additional numbers attached: YesX_ No</li> </ul> | he execution date of the application is:  B. Patent No.(s)  40E   |
| 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<br>X Enclosed   |
| Internal Address: Morgan, Lewis & Bockius LLP  | Authorized to be charged to deposit account 50-0310  8. Deposit account number: 50-0310                 |
| Street Address: 1800 M Street, N.W. City: Washington State: D.C. Zip: 20036  | Attach duplicate of page if paying by deposit account   |
| 9. Statement and Signature  To the best of my knowledge and belief, the foregoing in the original document.  John G. Smith   | Information is true and correct and any attached copy is a true copy of  March 14, 2001  Ignature  Date |
| 03/21/2001 TDIAZ1 00000022 09739646 Total nu   | umber of pages including cover sheet, attachments and documents: 3                                      |
| 01 FC:581 40.60 SP   |   |

## **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:

VARIABLE OPTICAL ELEMENT, A PICKUP APPARATUS HAVING THE VARIABLE OPTICAL ELEMENT, AND AN INFORMATION RECORDING AND REPRODUCING

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

| filed on _ | December 20, 2000 | _• |
|------------|-------------------|----|
| serial No. | 09/739,646        |    |

- 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.

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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.

Date Typed Name: Takanori MAEDA

Date Typed Name: Hiroyuki OTA