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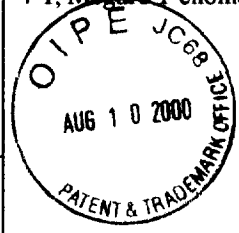
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U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

To the Assistant Commissioner of Patents. Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):
Toshihiko TAKISHITA, Masahiro KATO, Eiji MURAMATSU, Kunihiko HORIKAWA, Shoji TANIGUCHI, Atsushi YAMAGUCHI
Additional name(s) of conveying party(ies) attached?
 yes no

2. Name and address of receiving party(ies)?
PIONEER CORPORATION
4-1, Meguro 1-chome, Meguro-ku, Tokyo, Japan



3. Nature of Conveyance:
 Assignment Merger
 Security Agreement Change of Names
 Other

Additional name(s) & address(es) attached?
 yes no

Execution Date: April 24, 2000, April 25, 2000, April 26, 2000 and April 27, 2000

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)
09/544,547
Additional numbers attached? Yes No

B. Patent No.(s)
Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:
SUGHRUE, MION, ZINN, MACPEAK & SEAS. PLLC
2100 Pennsylvania Avenue, N.W.
Suite 800
Washington, D.C. 20037-3213

6. Total number of applications and registration involved:
1

7. Total Fee (37 CFR 3.41): \$40.00
 Enclosed. Please charge any underpayment in connection with this Assignment to Deposit Account No. 19-4880
 Authorized to be charged to Deposit Account

8. Deposit Account No. 19-4880

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9. Statement and Signature.
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.

Sean C. Edwards 41,728 for
Darryl Mexic Reg. No. 23,063

August 10, 2000
Date

TOTAL NUMBER OF PAGES COMPRISING COVER SHEET, ATTACHMENTS AND DOCUMENT: 3

OMB No. 0651-0011 (exp. 4/94)

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Mail documents to be recorded with required cover sheet information to:
Assistant Commissioner of Patents
Box Assignments
Washington, D.C. 20231

09-18-2000 MAIL 000010 054454
09-18-2000

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:

OPTICAL RECORDING MEDIUM

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

filed on April 6, 2000,

serial No. 09/544,547

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.

5. The undersigned hereby authorize and request the commissioner of Patents in the United 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

SUGHRUE, MION, ZINN, MACPEAK & SEAS at the address of
2100 Pennsylvania Avenue, N.W., Washington, D.C. 20037-3202,
U.S.A.

to insert hereon any further identification necessary or desirable for recordation of this document.

April 25, 2000
Date

Toshihiko Takshita.
Typed Name: Toshihiko TAKISHITA

April 26, 2000
Date

Masahiro kato
Typed Name: Masahiro KATO

April 25th, 2000
Date

Eiji Muramatsu.
Typed Name: Eiji MURAMATSU

April 27th, 2000
Date

Kunihiko Horikawa
Typed Name: Kunihiko HORIKAWA

April 24, 2000
Date

Shoji Taniguchi
Typed Name: Shoji TANIGUCHI

April 27th, 2000
Date

Atsushi Yamaguchi
Typed Name: Atsushi YAMAGUCHI