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1. Name of conveying party(ies):
Eiji MURAMATSU, Shoji TANIGUCHI, Masahiro KATO, Kazuo KURODA AND Masami OISHI

Additional name(s) of conveying party(ies) attached?
 yes no

2. Name and address of receiving party(ies)?
PIONEER CORPORATION
No. 4-1 Meguro 1-chome, Meguro-ku, Tokyo-to, Japan

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

30997 U.S. PTO
09/784124
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3. Nature of Conveyance:
 Assignment Merger
 Security Agreement Change of Names
 Other

Execution Date: February 13, 2001

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: February 13, 2001
A. Patent Application No.(s)/Confirmation No.(s) /
B. Patent No.(s) 09784124
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.
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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.
Darryl Mexic Reg. No. 23,063 February 16, 2001 Date

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03/09/2001 6TON11 00000132 09784124

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PATENT
REEL: 011564 FRAME: 0463

Assignment

Whereas, I/We, Eiji MURAMATSU, Shoji TANIGUCHI, Masahiro KATO of
Kazuo KURODA and Masami OISHI

Tokorozawa-shi, Saitama-ken, Japan

hereinafter called assignor(s), have invented certain improvements in
OPTICAL DISC, AND METHOD OF AND APPARATUS FOR RECORDING SIGNAL ONTO
THE SAME

and executed an application for Letters Patent of the United States of America therefor on
; and

Whereas, PIONEER CORPORATION
of No. 4-1 Meguro 1-chome, Meguro-ku, Tokyo-to, Japan

(assignee), desires to acquire the entire right, title, and interest in the application and invention, and to
any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

I/We, the above named assignor(s), hereby sell, assign and transfer to the above named assignee, its
successors and assigns, the entire right, title and interest in the application and the invention disclosed
therein for the United States of America, including the right to claim priority under 35 U.S.C. §119, and
I/we request the Commissioner of Patents to issue any Letters Patent granted upon the invention set forth
in the application to the assignee, its successors and assigns; and I/we will execute without further
consideration all papers deemed necessary by the assignee in connection with the United States application
when called upon to do so by the assignee.

I/We hereby authorize and request my attorneys SUGHRUE, MION, ZINN, MACPEAK & SEAS of
2100 Pennsylvania Avenue, N.W., Washington, D.C. 20037-3202 to insert here in parentheses (Application
number _____, filed _____) the filing date and application
number of said application when known.

Date: February 13, 2001 s/ Eiji Muramatsu

Date: February 13, 2001 s/ Shoji Taniguchi

Date: February 13, 2001 s/ Masahiro Kato

Date: February 13, 2001 s/ Kazuo Kuroda

Date: February 13, 2001 s/ Masami Oishi

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. §261)