

12-28-2001

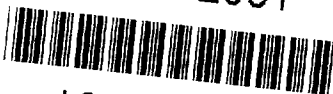
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U.S. DEPARTMENT OF COMMERCE

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To the Honorable Commissioner of Patents and Trademarks: *Please* ... ed original documents or copy thereof.

1. Name of conveying party(ies):

Masahiro ONO
Atsushi INAZUMI
Kazutoshi ADACHI
Daisuke TANAKA
Hiroshi SAITO
Kumiko ATSUTA

12-18-01

2. Name and address of receiving party(ies):

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

Additional name(s) of conveying party(ies) attached? Yes No

3. Nature of conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Other _____

Execution Date: November 28, 2001

Additional name(s) & address(es) attached? Yes No

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: November 28, 2001

A. Patent Application No.(s)

10,020,177

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, PLLC
2100 Pennsylvania Avenue, N.W.
Suite 800
Washington, D.C. 20037-3213

6. Total number of applications and patents 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 number:

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.

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December 18, 2001

Date

Total number of pages including cover sheet, attachments, and documents: 2

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents & Trademarks

Box Assignment

Washington, D.C. 20231

12/27/2001 DBYRNE 00000215 10020177

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40.00 DP

PATENT
REEL: 012389 FRAME: 0495

Assignment

Whereas, I/We, Masahiro ONO, Atsushi INAZUMI, Kazutoshi ADACHI, Daisuke TANAKA, Hiroshi SAITO and Kumiko ATSUTA of

Ohta-ku, Tokyo-to, Japan

hereinafter called assignor(s), have invented certain improvements in TRANSPORT STREAM MULTIPLEXING METHOD, TRANSPORT STREAM MULTIPLEXING APPARATUS, AND STORAGE AND REPRODUCTION SYSTEM

and executed an application for Letters Patent of the United States of America therefor on November 28, 2001 ; 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: November 28, 2001 s/ Masahiro Ono

Date: November 28, 2001 s/ Atsushi Inazumi

Date: November 28, 2001 s/ Kazutoshi Adachi

Date: November 28, 2001 s/ Daisuke Tanaka

Date: November 28, 2001 s/ Hiroshi Saito

Date: November 28, 2001 s/ Kumiko Atsuta

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