

4-16-01

04-26-2001

Q64097



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

1. Name of conveying party(ies):
Makoto MATSUMARU and Kunihiro MINOSHIMA

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

3. Nature of Conveyance:

Assignment Merger
 Security Agreement Change of Names
 Other

Execution Date: April 10, 2001

09834883

10921 U.S. PTO
09/834883
04/16/01

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: April 10, 201

A. Patent Application No.(s)/Confirmation No.(s)

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:

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
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April 16, 2001
Date

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04/26/2001 DBYRNE 00000394 09834883

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Assignment

Whereas, I/We, **Makoto MATSUMARU & Kunihiro MINOSHIMA** of
Tokorozawa-shi, Saitama-ken, Japan

hereinafter called assignor(s), have invented certain improvements in
PHASE LOCKED STATE DETECTING APPARATUS AND IMAGE PROCESSING APPARATUS

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: April 10, 2001 s/ Makoto Matsumaru

Date: April 10, 2001 s/ Kunihiro Minoshima

Date: s/ _____

Date: s/ _____

Date: s/ _____

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