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

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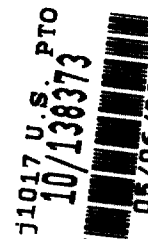
Nobuaki TOYOOKA

5-6-02

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: April 25, 2002

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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 25, 2002

A. Patent Application No.(s)

10,138,373

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.
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PATENT
REEL: 012869 FRAME: 0720

For Non-U.S. Clients

Assignment

Whereas, I/We, Nobuaki TOYOOKA of
Kawagoe-shi, Saitama-ken, Japan

hereinafter called assignor(s), have invented certain improvements in
POSITIONING APPARATUS AND NAVIGATION APPARATUS, AND POSITIONING METHOD AND
NAVIGATION METHOD

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 Director - U.S. Patent and Trademark Office 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 our attorneys SUGHRUE MION, PLLC of 2100 Pennsylvania Avenue, NW, Washington, DC 20037-3213 to insert here in parentheses (Application number _____ and Confirmation number _____) the filing date and application number of said application when known.

Date: 4.25, 2002 NOBUAKI TOYOOKA
s/
Date: _____
s/
Date: _____
s/
Date: _____
s/

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