

08-13-1998

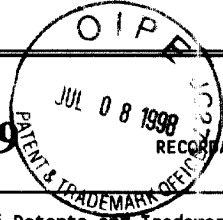


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To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):
Hajime NAKAJIMA, Masahiro SHIKAI, Toru OKA, Toshiro NAKASHIMA and Kazuo TAKASHIMA

2. Name and address of receiving party(ies)?
Name:
MITSUBISHI DENKI KABUSHIKI KAISHA
Internal Address:
2-3, Marunouchi 2-chome, Chiyoda-ku, Tokyo, Japan
Street Address:
Same as above

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

City State Zip

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

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

Execution Date: March 13, 1998

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)
09/021,271

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
2100 Pennsylvania Avenue, N.W.
Suite 800
Washington, D.C. 20037-3202

6. Total number of applications and patents involved:
One (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.

(Attach dupl. copy of this page if paying by Deposit Account)

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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
Name Darryl Mexic Reg. No. 23,063

July 8, 1998
Date

TOTAL NUMBER OF PAGES INCLUDING COVER SHEET, ATTACHMENTS AND DOCUMENT: 2

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08/13/1998 JWATKINS 00000082 09021271
01 FC:581 40.00 DP

Assignment

Whereas, I/We, Hajime Nakajima, Masahiro Shikai, Toru Oka
Toshiro Nakashima and Kazuo Takashima
all of Tokyo, Japan

hereinafter called assignor(s), have invented certain improvements in

OPTICAL ENCODER

and executed an application for Letters Patent of the United States of America therefor on
March 13, 1998, and

Whereas, MITSUBISHI DENKI KABUSHIKI KAISHA of
2-3, Marunouchi 2-chome, Chiyoda-ku, Tokyo, 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 09/021,271, filed February 10, 1998) the filing date and application
number of said application when known.

Date: 03/13/1998 s/ Hajime Nakajima
Hajime Nakajima

Date: 03/13/1998 s/ Masahiro Shikai
Masahiro Shikai

Date: 03/13/1998 s/ Toru Oka
Toru Oka

Date: 03/13/1998 s/ Toshiro Nakashima
Toshiro Nakashima

Date: 03/13/1998 s/ Kazuo Takashima
Kazuo Takashima

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