

09-19-2002

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102228922

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TO THE ASSISTANT COMMISSIONER FOR PATENTS: 102228922 ments or copy thereof.

1. Name of conveying party(ies): (If multiple assignors, list numerically)

- 1) Atsushi Shinozaki
- 2) Takashi Shigematsu
- 3) Toshihiko Ota
- 4) Shigehito Yodo

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

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

**Name:** The Furukawa Electric Co., Ltd.  
**Street Address:** 6-1, Marunouchi 2-chome, Chiyoda-ku  
**City:** Tokyo 100-8322 **Country:** JAPAN

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

3. Nature of conveyance:

(X) Assignment

Execution Date: (If multiple assignors, list execution dates in numerical order corresponding to numbers indicated in 1 above)

- 1) August 30, 2002
- 2) August 30, 2002
- 3) August 30, 2002
- 4) August 30, 2002

4. Application number(s) or Patent number(s):

(X) Patent Application No.: 10/147,283  
Filing Date: May 14, 2002

Additional numbers attached? ( ) Yes (X) No

5. Name and address of party to whom correspondence concerning document should be mailed:

**Name:** Mark M. Abumeri  
KNOBBE, MARTENS, OLSON & BEAR, LLP  
**Customer No.** 20,995  
**Internal Address:** Fourteenth Floor  
**Street Address:** 2040 Main Street  
**City:** Irvine **State:** CA **ZIP:** 92614  
**Attorney's Docket No.:** KAWAW27.001AUS

7. Total fee (37 CFR 1.21(h)): \$40

(X) Enclosed

8. Deposit account number: 11-1410

Please charge this account for any additional fees which may be required, or credit any overpayment to this account.

6. Total number of applications and patents involved: 1

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.

Mark M. Abumeri  
Name of Person Signing

Signature

September 16, 2002  
Date

43,458  
Registration No.

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

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

09/19/2002 TDIAZ1 00000119 10147283  
01 FC:581 40.00 OP

U.S. Patent and Trademark Office  
Attn: Assignment Division  
Crystal Gateway-4  
1213 Jefferson Davis Highway, Suite 320  
Arlington, VA 22202

ASSIGNMENT

WHEREAS, WE (1) Atsushi Shinozaki, a Japanese citizen, residing in Tokyo, Japan; (2) Takashi Shigematsu, a Japanese citizen, residing in Tokyo, Japan; (3) Toshihiko Ota, a Japanese citizen, residing in Tokyo, Japan; and (4) Shigehito Yoda, a Japanese citizen, residing in Tokyo, Japan, hereinafter referred to as Assignor (collectively if more than one inventor is listed above), have invented certain new and useful improvements in **OPTICAL MODULE**, the specification of which was filed on May 14, 2002 as Application No. 10/147,283.

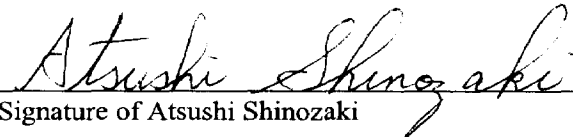
AND WHEREAS, The Furukawa Electric Co., Ltd., with its principal place of business at 6-1 Marunouchi 2-chome, Chiyoda-ku, Tokyo 100-8322, Japan, (hereinafter referred to as Assignee) desires to acquire the entire right, title, and interest in and to the said improvements with respect to the United States of America, its territories and possessions.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Assignor hereby acknowledges that it has sold, assigned, transferred and set over, and by these presents does hereby sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and assigns, the entire right, title, and interest in the United States of America, and its territories and possessions in, to and under said improvements, and any Patent Applications in the United States of America and all divisions, renewals and continuations thereof, and all Patents of the United States of America which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions; and Assignor hereby authorizes and requests the Commissioner of Patents of the United States of America to issue all Patents for said improvements to Assignee, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

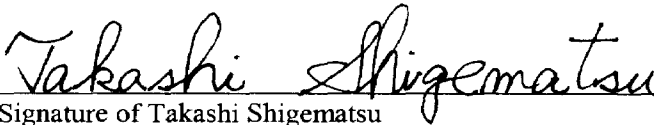
AND ASSIGNOR HEREBY covenants and agrees that it will communicate to Assignee, its successors, legal representatives and assigns, any facts known to it respecting said improvements, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid Assignee, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said improvements in the United States of America.

IN TESTIMONY WHEREOF, Assignor intending to be legally bound has hereunto affixed its signature.


This 30th day of August, 2002

  
Signature of Atsushi Shinozaki

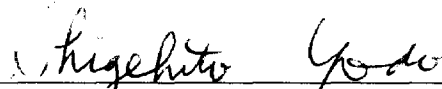
This 30th day of August, 2002

  
Signature of Takashi Shigematsu

This 30th day of August, 2002

  
Signature of Toshihiko Ota

This 30th day of August, 2002

  
Signature of Shigehito Yoda

Witnessed by:

Print Name:

S:\DOCS\MMA\MMA-5455.DOC/cfg/071002