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TO THE ASSISTANT COMMISSIONER FOR PA

ments or copy thereof.

102055752

1. Name of conveying parties:

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

- 1. Micko Konishi
- 2. Hiroshi Matsuura
- 3. Satoru Abe

**Name:** Furukawa Electric Company, Ltd.  
**Street Address:** 6-1, Marunouchi 2-chome, chiyoda-ku  
**City:** Tokyo **Country:** Japan **ZIP:** 100-8322

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

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

3. Nature of conveyance:

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

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

- Application(s) filed herewith Execution Date(s):
- Patent Application No.: 10/011,636  
Filing Date: December 5, 2001
- Patent No.:  
Issue Date:

Execution Date:

- 1. March 13, 2002
- 2. March 13, 2002
- 3. March 13, 2002

Additional numbers attached? ( ) Yes (X) No

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

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

**Name:** Thomas R. Arno  
 KNOBBE, MARTENS, OLSON & BEAR, LLP  
 Customer No. 20,995  
**Internal Address:** Sixteenth Floor  
**Street Address:** 620 Newport Center Drive  
 City: Newport Beach State: CA ZIP: 92660  
 Attorney's Docket No.: FURUK.005AUS

(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.

Thomas R. Arno  
Name of Person Signing

Signature

4/9/02  
Date

40,490  
Registration No.

Total number of pages including cover sheet, attachments and document: 3

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

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

04/16/2002 6TDM11 00000038 10011636  
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ASSIGNMENT

WHEREAS, WE,

Mieko Konishi residing at \_\_\_\_\_,  
Hiroshi Matsuura residing at \_\_\_\_\_, and  
Satoru Abe residing at \_\_\_\_\_.

hereinafter referred to as Assignor (collectively if more than one inventor is listed above), have invented certain new and useful improvements in

OPTICAL CIRCULATOR

the specification of which:

- (a)  is attached hereto; or
- (b)  was filed on December 5, 2001 as Application No. 10/011,636 or
- (c)  was described and claimed in PCT International Application No. \_\_\_\_\_ filed on \_\_\_\_\_, and as amended under PCT Article 19 on \_\_\_\_\_ (if any) and/or under PCT Article 34 \_\_\_\_\_ (if any).

AND WHEREAS, THE FURUKAWA ELECTRIC COMPANY, LTD. (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 13th day of March, 2002

Mieko Konishi  
Signature of first or sole inventor

Witness: Shunichi Asakura

This 13<sup>th</sup> day of March, 2002

Hiroshi Matsuzaki  
Signature of second inventor

Witness: Shunichi Asakura

This 13<sup>th</sup> day of March, 2002

Satoru Abe  
Signature of third inventor

Witness: Shunichi Asakura

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