

**RECORDATION FOR
PATENTS**



101622913

TO THE ASSISTANT COMMISSIONER FOR PATENTS: Please record

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

- 1. Kazuhisa Kashihara
- 2. Takeshi Nakajima
- 3. Tsunetoshi Saito

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

Name: The Furukawa Electric Co., Ltd.
Internal Address: 6-1 Marunouchi 2 chome, Chiyodaku, Tokyo 100-8322, Japan

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

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

2-20-01

3. Nature of conveyance:

- (X) Assignment
- () Merger
- () Security Agreement
- () Change of Name
- () Other:

Execution Date: (If multiple assignors, list execution dates in numerical order corresponding to numbers indicated in 1 above) January 18, 2001

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

- () Application(s) filed herewith Execution Date(s):
- (X) Patent Application No.: 09/661,091
Filing Date: September 13, 2000
- () Patent No.:
Issue Date:

Additional numbers attached? () Yes (X) No

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

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.: IGARA3.001AUS

7. Total fee (37 CFR 3.41): \$40

- (X) Enclosed
- (X) Authorized to be charged to deposit account if any additional fees are required, or to credit any overpayment

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

2/16/01
Date

40,490
Registration No.

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

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

02/27/2001 GT0N11 00000125 09661091

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ASSIGNMENT

WHEREAS, We, **Kazuhisa KASHIHARA**, a Citizen of Japan, residing at 6-1, Marunouchi 2-chome, Chiyoda-ku, Tokyo 100-8322 JAPAN, **Takeshi NAKAJIMA**, a Citizen of Japan, residing at 6-1, Marunouchi 2-chome, Chiyoda-ku, Tokyo 100-8322 JAPAN, **Tsunetoshi SAITO**, a Citizen of Japan, residing at 6-1, Marunouchi 2-chome, Chiyoda-ku, Tokyo 100-8322 JAPAN, hereinafter referred to as Assignor (collectively if more than one inventor is listed above), have invented certain new and useful improvements in **ARRAYED WAVEGUIDE GRATING**, the specification of which:

- (a) is attached hereto; or
- (b) was filed on **September 13, 2000** as Application No. **09/661,091**; 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 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 18 day of JAN, 2001

Kazuhisa KASHIHARA
Signature of **Kazuhisa KASHIHARA**

Witness: Isaac Chyana

(signatures on page 2)

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

This 18 day of Jan, 2001 Takeshi Nakajima
Signature of Takeshi NAKAJIMA

Witness: Isao Chyuma

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

This 18 day of Jan, 2001 Tsunetoshi Saito
Signature of Tsunetoshi SAITO

Witness: Isao Chyuma