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TO THE ASSISTANT COMMISSIONER FOR PATENTS. Please record the attached original documents or copy thereof.

1. Name of conveying parties:

- 1. Shunichi Matsushita
- 2. Osamu Aso
- 3. Misao Sakano

2. Name and address of receiving party:

Name: The Furukawa Electric Co., Ltd.
Street Address: 6-1 Marunouchi 2-chome, Chiyoda-ku
City: Tokyo **State:** Japan **ZIP:**

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

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

5-29-02

3. Nature of conveyance:

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

Execution Date:

- 1. May 7, 2002
- 2. May 7, 2002
- 3. May 7, 2002

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

- Application(s) filed herewith Execution Date(s):
- Patent Application No.: 10/053,231
Filing Date: January 17, 2002
- 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.: NAGAT32.001AUS

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

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]
Signature

5/24/02
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:

05/29/2002 6T0N11 00000161 10053231
 01 FC:581 40.00 DP

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

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P1577US
(1PFE723US)
PATENT

ASSIGNMENT

WHEREAS, I/WE (1) Shunichi MATSUSHITA,

a Japanese citizen, residing at Tokyo, Japan

(2) Osamu ASO

a Japanese citizen, residing at Tokyo, Japan

(3) Misao SAKANO

a Japanese citizen, residing at Tokyo, Japan

(4) _____

a _____ citizen, residing at _____

(5) _____

a _____ citizen, residing at _____

(6) _____

a _____ citizen, residing at _____

(7) _____

a _____ citizen, residing at _____

(8) _____

a _____ citizen, residing at _____

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

the specification of which:

(a) is attached hereto; or

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(b) was filed on January 17, 2002 as Application No. 10/053,231 or Express Mail No., as Application No. not yet known _____ and was amended on _____ (if applicable); 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 on _____ (if any).

AND WHEREAS, THE FURUKAWA ELECTRIC CO., LTD.

with its principal place of business at 6-1, Marunouchi 2-chome, Chiyoda-ku, Tokyo, 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 7th day of May, 2002 Shunichi Matsushita
Signature of Shunichi MATSUSHITA

This 7th day of May, 2002 Osamu Aso
Signature of Osamu ASO

This 7th day of May, 2002 Misao Sakano
Signature of Misao SAKANO