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7-17-2002

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TO THE ASSISTANT COMMISSIONER FOR PATENTS, U.S. PATENT AND TRADEMARK OFFICE, WASHINGTON, DC 20503-1400. Attachments or copy thereof.

1. Name of conveying parties:

- 1. Kazuhisa Kashiwazaki
- 2. Hirokazu Yamaguchi
- 3. Ryo Shoji
- 4. Toshiyuki Kakinoki

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

2. Name and address of receiving party:

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

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

3. Nature of conveyance:

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

Execution Date:

- 1. April 5, 2002
- 2. April 5, 2002
- 3. April 5, 2002
- 4. April 5, 2002

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

( ) Application(s) filed herewith Execution Date(s):

(X) Patent Application No.: 10/117,864  
Filing Date: April 4, 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.: SHIGE4.001AUS

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.

Thomas R. Arno  
Name of Person Signing

Signature

7/11/02  
Date

40,490  
Registration No.

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

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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 5 day of April, 2002 Kazuhisa Kashiwazaki  
Signature of Kazuhisa KASHIWAZAKI

This 5 day of April, 2002 Hirokazu Yamaguchi  
Signature of Hirokazu YAMAGUCHI

This 5 day of April, 2002 Ryo Shoji  
Signature of Ryo SHOJI

This 5 day of April, 2002 Toshiyuki Kakinoki  
Signature of Toshiyuki KAKINOKI