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To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies)

BARISH, Eric L.
FLETCHER III, Joseph P.
WU, Fengqing

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

3. Nature of conveyance/Execution Date(s):

Execution Date(s) 05/07/2007

☒ Assignment

☐ Merger

☐ Security Agreement

☐ Change of Name

☐ Joint Research Agreement

☐ Government Interest Assignment

☐ Executive Order 9424, Confirmatory License

☐ Other

2. Name and address of receiving party(ies)

Name: Furukawa Electric North America, Inc.

Internal Address: Docket Administrator, Suite 2H-02

Street Address: 2000 Northeast Expressway

City: Norcross

State: Georgia

Country: US Zip: 30071

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application or patent number(s):

☒ This document is being filed together with a new application.

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: Leo Zucker

Internal Address: Suite 212-K

Street Address: P.O. Box 1194

City: White Plains

State: New York Zip: 10602-1194

Phone Number: (914) 761 7799

Fax Number: (914) 761 8767

Email Address: lzpatents@att.net

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 1.21(h) & 3.41) \$40.00

☐ Authorized to be charged by credit card

☒ Authorized to be charged to deposit account

☐ Enclosed

☐ None required (government interest not affecting title)

8. Payment Information

a. Credit Card Last 4 Numbers _____
Expiration Date _____

b. Deposit Account Number (Fitel) 50-2074

Authorized User Name Leo Zucker

9. Signature:

05/30/2007 BYRNE 00000165 502074 41001365

Signature

May 8, 2007

Date

40.00 DA

LEO ZUCKER

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents:

6

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

PATENT
REEL: 019377 FRAME: 0886

ASSIGNMENT AND AGREEMENT

For value received, we, Eric L. Barish of Cumming in the County of Forsyth and the State of Georgia; Joseph P. Fletcher III of Marietta in the County of Cobb and the State of Georgia; and Fengqing Wu of Duluth in the County of Fulton and the State of Georgia, do hereby sell, assign and transfer to Furukawa Electric North America, Inc., a corporation of the State of Delaware, having an office at 2000 Northeast Expressway, Norcross, Georgia, 30071, U.S.A. and its successors, assigns and legal representatives, the entire right, title and interest, for the United States of America, in and to certain inventions related to **INCREASING THE CLADDING-TO-CORE RATIO (D/d) OF LOW D/d RATIO CORE RODS IN OPTICAL FIBER PREFORMS** described in an application for Letters Patent of the United States executed by us concurrently, and all the rights and privileges in said application and under any and all Letters Patent that may be granted in the United States for said inventions; and we also concurrently hereby sell, assign and transfer to Furukawa Electric North America, Inc., the entire right, title and interest in and to said inventions for all countries foreign to the United States, including all rights of priority arising from the application aforesaid, and all the rights and privileges under any and all forms of protection, including Letters Patent, that may be granted in said countries foreign to the United States for said inventions.

We authorize Furukawa Electric North America, Inc., to make application for such protection in its own name and to maintain such protection in any and all countries foreign to the United States, and to invoke and claim for any application for patent or other form of protection for said inventions, without further authorization from us, any and all benefits, including the right of priority provided by any and all treaties, conventions, or agreements.

We hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country in proof of the right of Furukawa Electric North America, Inc., to apply for patent or other form of protection for said inventions and to claim the aforesaid benefit of the right of priority.

We request that any and all patents for said inventions be issued to Furukawa Electric North America, Inc., in the United States and in all countries foreign to the United States, or to such nominees as Furukawa Electric North America, Inc., may designate.

We agree that, when requested, we shall, without charge to Furukawa Electric North America, Inc., but at its expense, sign all papers, and do all acts which may be necessary, desirable or convenient in connection with said applications, patents, or other forms of protection.

Eric L. Barish
Eric L. Barish

Date: 4/3/07

United States of America)

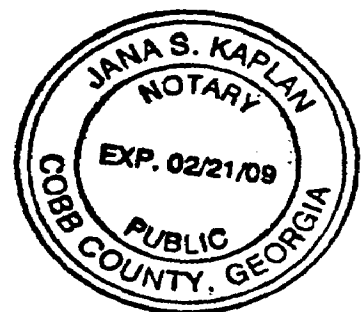
State of Georgia) ss.:

County of Gwinnett ,

On this 7th day of May, 20 07, before me personally came Eric L. Barish, to me known to be the individual described in and who executed the foregoing instrument, and he acknowledged execution of the same.

Jana S. Kaplan
Notary Public

(SEAL)



Joseph P. Fletcher III
Joseph P. Fletcher III

Date: 5/4/2007

United States of America)

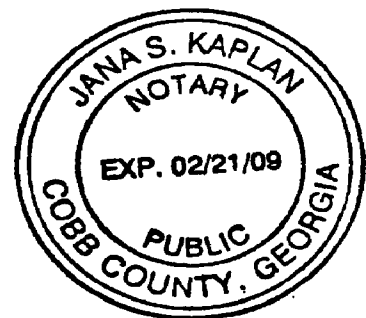
State of Georgia) ss.:


County of Gwinnett)

On this 7th day of May, 20 07, before me personally came Joseph P. Fletcher III, to me known to be the individual described in and who executed the foregoing instrument, and he acknowledged execution of the same.

Jana S. Kaplan
Notary Public

(SEAL)




Fengqing Wu

Date: 5-7-07

United States of America)

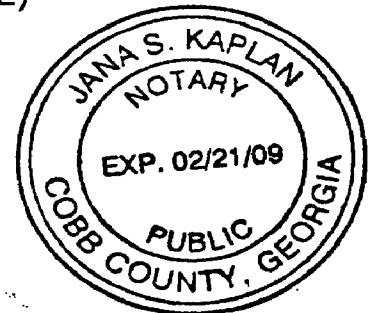
State of Georgia) ss.:

County of Gwinnett ,

On this 7th day of May, 20 07, before me personally came Fengqing Wu, to me known to be the individual described in and who executed the foregoing instrument, and he acknowledged execution of the same.


Notary Public

(SEAL)



Docket Administrator
Furukawa Electric North America, Inc.
2000 Northeast Expressway, Suite 2H-02
Norcross, GA 30071

Barish 6-6-10