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OMB No. 0651-00

U.S. DEPARTMENT OF COMMERCE
United States Patent and Trademark Office

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REGISTRATION FORM COVER SHEET
PATENTS ONLY

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)

James W. Fleming
George J. Zyzdik

2. Name and address of receiving party(ies)

Name: Furukawa Electric North America, Inc.

Internal Address: _____

Street Address: 2000 Northeast Expressway

City: Norcross

State: Georgia

Country: United States of America Zip: 30071

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

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

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

Execution Date(s) 12/7/2007, 12/7/2007

- Assignment Merger
- Security Agreement Change of Name
- Joint Research Agreement
- Government Interest Assignment
- Executive Order 9424, Confirmatory License
- Other _____

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: Wendy W. Koba

Internal Address: _____

Street Address: PO Box 556

City: Springtown

State: Pennsylvania Zip: 18081

Phone Number: 610-346-7112

Fax Number: 610-346-8189

Email Address: wendykoba@usa.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 502074

Authorized User Name FTEL USA CORP.

9. Signature:

Wendy W. Koba
Signature

December 10, 2007
Date

Wendy W. Koba
Name of Person Signing

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

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

ASSIGNMENT AND AGREEMENT

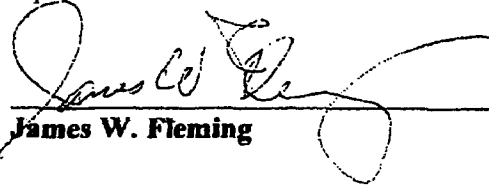
For value received, we, James W. Fleming, of Westfield, in the State of New Jersey, and George J. Zydzik, of Columbia, in the State of New Jersey, hereby sell, assign and transfer to Furukawa Electric North America, Inc., a corporation of the State of Delaware, having an office at 2000 Northeast Expressway, 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 **Method Of Fabricating Optical Fiber Using An Isothermal, Low Pressure Plasma Deposition Technique** described in an application for Letters Patent of the United States, executed by us of even date herewith, 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 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 to Furukawa Electric North America, Inc. in all countries foreign to the United States or to such nominees as they may designate.

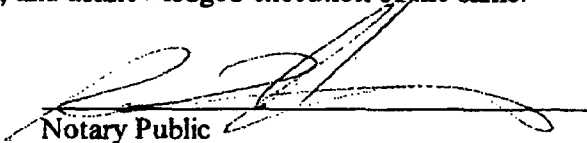
We agree that, when requested, we shall, without charge to Furukawa Electric North America, Inc. but at its expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable or convenient in connection with said applications, patents, or other forms of protection.


James W. Fleming

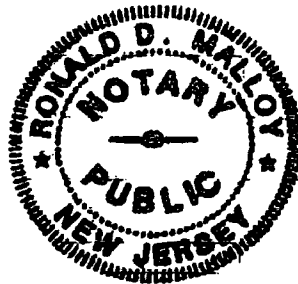
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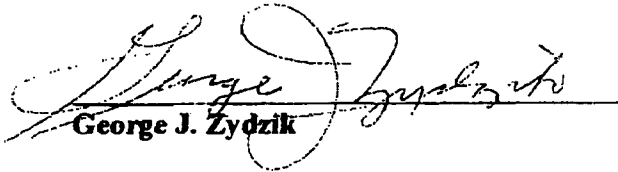
United States of America)
State of New Jersey) ss.:
County of Somerset)

On this 7th day of December, 2007, before me personally came James W. Fleming, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.


Notary Public

RONALD D. MALLOY
Notary Public of New Jersey
Commission Expires 3/29/2012

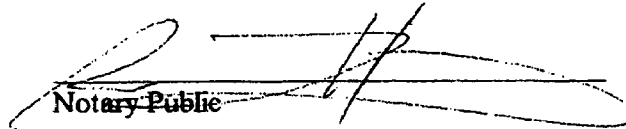



 George J. Zydzik

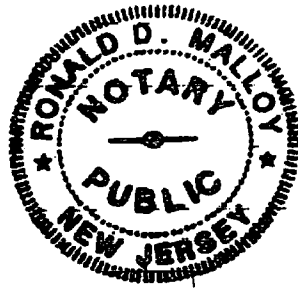
Date: 12/7/07

United States of America)
 State of New Jersey) ss.:
 County of Somerset)

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 Notary Public

RONALD D. MALLOY
 Notary Public of New Jersey
 Commission Expires 3/29/2012



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 Suite 2H02
 Norcross, Georgia 30071