

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

RECORDATION FORM COVER SHEET PATENTS ONLY

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):
 1. Karthik C. Krishnamurthy
 2. Joseph A. Cignarale
 3. Michael H. Turenne

3. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other _____

Execution Date: July 9, 2003

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

Alcoa Fujikura Limited
 830 Crescent Centre Drive
 Suite 600
 Franklin, TN 37067

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

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

A. Patent Application No.(s)

U.S. Serial No. 10/601,403, Filed June 23, 2003
 Alcoa Docket 03-0224

B. Patent No.(s)

Additional numbers attached? Yes No

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

Name: Tracey D. Beiriger, Esq.
 Address: Intellectual Property Law Dept.
 Eckert Seamans Cherin & Mellott, LLC
 Alcoa Technical Center
 100 Technical Drive
 Alcoa Center, PA 15069-0001

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41): \$40.00

Enclosed
 Authorized to be charged to deposit account

8. Deposit Account No. 02-2556
 (Attach duplicate copy of this page if paying by Deposit Account.)

DO NOT USE THIS SPACE

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.

 Marie E. Kacin
 Name of Person Signing

Marie E. Kacin
 Signature

 October 13, 2003
 Date

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

CH \$40.00 022556 10601403

ASSIGNMENT

In consideration of One Dollar (\$1.00), and other good, and valuable considerations, the receipt of which is hereby acknowledged, and intending to be legally bound hereby, we, Karthik C. Krishnamurthy, Joseph A. Cignarale, and Michael H. Turenne; of Greenville, in the County of Greenville; Greer, in the County of Greenville; Campobello, in the County of Spartanburg; all of the State of South Carolina, respectively

Hereby sell, assign and transfer to Alcoa Fujikura Limited, a corporation of the State of Delaware, having a place of business at Franklin, in the County of Williamson, and State of Tennessee, its successors, assigns, and legal representatives, our entire right, title and interest, for all countries, in and to any and all improvements which are disclosed and claimed, and any and all improvements which are disclosed but not claimed, in the application for United States Patent, **Serial No. 10/601,403, Filed June 23, 2003**, entitled "**Fiber Optic Cable**" (Atty. Docket No. 03-0224) and in and to said application and all divisional, continuing, substitute, renewal, reissue, and all other applications for Letters Patent which have been or shall be filed on any of said improvements disclosed in said application; and in and to all original and reissued patents which have been or shall be issued on said improvements;

Authorize and request my attorney to insert above the filing date and application number when they become known;

Authorize and request the Commissioner of Patents and Trademarks to issue to said Assignee, Alcoa Fujikura Limited, its successors, assigns and legal representatives, in accordance with this assignment, any and all United States Letters Patent on said improvements, or any of them disclosed in said application;

Agree that, when requested, without charge to but at the expense of said Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this assignment, we will, for all countries execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said improvements; execute all rightful oaths and other papers; communicate to said Assignee, its successors, assigns, and representatives, all facts known to us relating to said improvements and the history thereof; testify in all legal proceedings; and generally do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing, maintaining and enforcing proper patent protection for said improvements, and for vesting title to said improvements and all applications for patents and all patents on said improvements, in said Assignee, its successors, assigns and legal representatives.

Covenant with said Assignee, its successors, assigns and legal representatives that we have made to others no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed, and that we have full right to convey the same as herein expressed.

Karthik C. Krishnamurthy ^{WCA PKC} July 8, 2003
Karthik C. Krishnamurthy Date

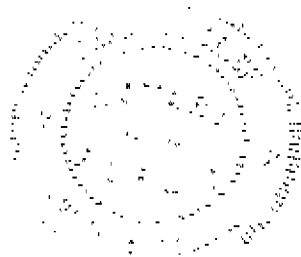
Joseph A. Cignarale 09-JUL-2003
Joseph A. Cignarale Date

Michael H. Turenne July 9, 2003
Michael H. Turenne Date

State of South Carolina)
County of *SPARTANBURG*)SS.
)

Before me this 9th day of JULY, 2003 personally appeared **Karthik C. Krishnamurthy**, to me personally known to be the person who is described in and who executed the above instrument, and he acknowledged to me that he executed the same of his own free will for the purposes therein set forth.

[Signature]
Notary Public **My Commission Expires August 13, 2007**



State of South Carolina)
)
County of SPARTANBURG)SS.

Before me this 9th day of July, 2003 personally appeared **Joseph A. Cignarale**, to me personally known to be the person who is described in and who executed the above instrument, and he acknowledged to me that he executed the same of his own free will for the purposes therein set forth.

[Signature]

Notary Public
My Commission Expires
August 13, 2007



State of South Carolina)
)
County of SPARTANBURG)SS.

Before me this 9th day of July, 2003 personally appeared **Michael H. Turenne**, to me personally known to be the person who is described in and who executed the above instrument, and he acknowledged to me that he executed the same of his own free will for the purposes therein set forth.

[Signature]

Notary Public
My Commission Expires
August 13, 2007

