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U.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office Docket No. 0670-7031

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

1. Name of conveying party(ies): Fumio TAKAHASHI and Mitsuhiro KAWASAKI

2. Name and address of receiving party(ies) Name: THE FURUKAWA ELECTRIC CO., LTD. Internal Address:

3. Nature of conveyance: [X] Assignment [] Merger [] Security Agreement [] Change of Name [] Other Execution Date: 06/06/2003 and 06/10/2003

Street Address: 6-1, Marunouchi 2-chome, Chiyoda-ku City: Tokyo State: Zip: Country: Japan Postal Code: Additional name(s) & address(es) attached? [] Yes [X] No

4. Application number(s) or patent number(s); If this document is being filed together with a new application, the execution date of the application is: A. Patent Application No.(s) 10/447,269

B. Patent No.(s) Additional numbers attached? [] Yes [X] No

5. Name and address of party to whom correspondence concerning document should be mailed: Attorney Name: Eric J. Robinson Firm Name: Robinson Intellectual Property Law Office Internal Address: PMB 955 Street Address: 21010 Southbank Street City: Potomac Falls State: VA Zip: 20165

7. Total number of applications and patents involved: 8. Total fee (37 CFR 3.41).....\$40.00 [X] Enclosed [] Authorized to be charged to deposit account

6. Submission Type [X] New [] Resubmission (Non-Recordation) Document ID# [] Correction of PTO Error Reel # Frame # [] Corrective Document Reel # Frame #

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10. 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. Eric J. Robinson Name of Person Signing Signature Date 9-26-03 Total number of pages including cover sheet, attachments, and documents: 3

CERTIFICATE OF MAILING I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on 9-26-03 Add M Stamp

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PATENT REEL: 014552 FRAME: 0870

ROBINSON INTELLECTUAL PROPERTY LAW OFFICE
United States Patent Rights

Attorney Docket No.

ASSIGNMENT

WHEREAS, Fumio TAKAHASHI and Mitsuhiro KAWASAKI

(hereinafter designated as the undersigned) has (have) invented certain new and useful improvements in **AN OPTICAL FIBER AND OPTICAL TRANSMISSION SYSTEM USING THE OPTICAL FIBER**

for which an application for Letters Patent of the United States of America has been executed by the undersigned on June 6, 2003, and;

WHEREAS, THE FURUKAWA ELECTRIC CO., LTD. of 6-1, Marunouchi 2-chome Chiyoda-ku, Tokyo, JAPAN its heirs, successors, legal representatives and assigns (hereinafter designated as the Assignee) is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent(s) that may be granted therefor in the United States of America;

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to the undersigned in hand paid, the receipt of which is hereby acknowledged, and other good and valuable consideration, the undersigned has (have) sold, assigned and transferred, and by these presents do sell, assign and transfer unto said Assignee the full and exclusive right to the said invention in the United States of America and its territories and for all foreign countries, dependencies and possessions and the entire right, title and interest in and to any and all Letters Patent(s) which may be granted therefor in the United States of America and its territories, dependencies and possessions, and in and to any and all divisions, reissues, continuations and extensions thereof for the full term or terms for which the same may be granted.

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or any continuation, division or reissue thereof or Letters Patent(s) or reissue patent issued thereon and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such interference.

The undersigned agree(s) to execute all papers and documents and to perform any act which may be necessary in connection with claims under or provisions of the International Convention for the Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent(s) to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

The undersigned hereby authorize(s) and request(s) the Commissioner of Patents and Trademarks to issue any and all Letters Patents of the United States of America resulting from said application or any division or divisions or continuing or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) the full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the law firm Robinson Intellectual Property Law Office the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

In witness thereof, this Assignment has been executed by the undersigned on the date(s) opposite the undersigned name(s).

Date June 6, 2003, Name of Inventor Fumio Takahashi (SEAL)

Date June 10, 2003, Name of Inventor Mitsuhiro Kawasaki (SEAL)
Fumio TAKAHASHI
Mitsuhiro KAWASAKI

Date _____, Name of Inventor _____ (SEAL)

Date _____, Name of Inventor _____ (SEAL)

Date _____, Name of Inventor _____ (SEAL)

(This assignment should preferably be acknowledged before a United States Consul or Notary Public. If not, then the execution by the Inventor(s) should be witnessed by at least two other persons who should sign here.)

Witness Naoto Oyama Naoto Oyama
(name) (signature)

Witness Akihiro Kanao Akihiro Kanao
(name) (signature)

Witness _____
(name) (signature)