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To the Honorable Director of the United States Patent and Trademark Office, please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Masayoshi Kagawa
Hiroshi Matsuura
Hajime Kazami
Kazuaki Sato

7.14.03

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

Name: The Furukawa Electric Co., Ltd.

Address: 2-6-1, Marunouchi

Chiyoda-ku, Tokyo 100-8322

Additional names(s) of conveying party(ies)

☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ Other

City: State/Prov.:

Country: Japan

ZIP:

Execution Date: May 30, 2003

Additional name(s) & address(es)

☐ Yes ☒ No

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

If this document is being filed together with a new application, the execution date of the application:

Patent Application No.

Filing date

B. Patent No.(s)

10/401,304

03/26/2003

Additional numbers

☐ Yes ☒ No

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

Name: Lisa A. Bongiovi

Registration No. 48,933

Address: Cantor Colburn LLP

55 Griffin Road South

City: Bloomfield

State/Prov.: CT

Country: USA

ZIP: 06002

6. Total number of applications and patents involved:

1

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

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8. Deposit account number:

06-1130

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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.

Lisa A. Bongiovi

Name of Person Signing

Signature

July 10, 2003

Date

3

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ASSIGNMENT

WHEREAS, **I/WE**

Masayoshi KAGAWA, residing at c/o The Furukawa Electric Co., Ltd., 2-6-1, Marunouchi, Chiyoda-ku, Tokyo 100-8322 Japan;

Hiroshi MATSUURA, residing at c/o The Furukawa Electric Co., Ltd., 2-6-1, Marunouchi, Chiyoda-ku, Tokyo 100-8322 Japan;

Hajime KAZAMI, residing at c/o The Furukawa Electric Co., Ltd., 2-6-1, Marunouchi, Chiyoda-ku, Tokyo 100-8322 Japan;

Kazuaki SATO, residing at c/o The Furukawa Electric Co., Ltd., 2-6-1, Marunouchi, Chiyoda-ku, Tokyo 100-8322 Japan;

have invented certain new and useful improvements in:

Title: A method for tuning optical characteristic of an optical module

for which **I/WE** have filed an application for Letters Patent of the United States;

AND WHEREAS, The Furukawa Electric Co., Ltd., a corporation organized and existing under the laws of Japan, having a place of business at 2-6-1, Marunouchi, Chiyoda-ku, Tokyo 100-8322 Japan

is desirous of acquiring an interest in the United States and all foreign countries, in and to the said invention and the Letters Patent to be obtained therefor;

NOW THEREFORE, TO ALL WHOM IT MAY CONCERN, be it known that, for and in consideration of one (\$1.00) dollar to me/us in hand paid, and other good and valuable considerations, the receipt of all of which is hereby acknowledged, **I/We**, the said Masayoshi KAGAWA, Hiroshi MATSUURA, Hajime KAZAMI, and Kazuaki SATO have sold, assigned and transferred, and by these presents do sell, assign and transfer unto said The Furukawa Electric Co., Ltd., the entire right, title and interest in and to said invention in the United States and in all foreign countries, including priority rights, as fully set forth and described in said application; and **I/We** do hereby authorize and request the Commissioner of Patents to issue said Letters Patent on said application and any and all Letters Patent that may be issued upon any and all revivals, refilings, continuations, continuation-in-part, divisions and reissues thereof, to the said The Furukawa Electric Co., Ltd., as assignee of the entire right, title and interest in and to the same, for the sole use and behoof of The Furukawa Electric Co., Ltd., its successors and assigns; and **I/We** will execute all papers necessary in connection with the United States applications and foreign applications when called upon to do so by the said The Furukawa Electric Co., Ltd., its successors or assigns, and that **I/We** will, at the cost and expense of the said The Furukawa Electric Co., Ltd., fully assist and cooperate in all matters in connection with the United States and foreign applications and patents issuing thereon.

The undersigned declare that all statements made herein of their own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Date: May 30, 2003

Masayoshi Nagawa L.S.

Date: May 30, 2003

Hiroshi Matsura L.S.

Date: May 30, 2003

Idajime Kazami L.S.

Date: May 30, 2003

Kazuaki Sato L.S.