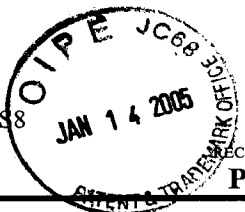


Atty Docket No.: 257684US8

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

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

Name: THE FURUKAWA ELECTRIC CO., LTD.
Address: 6-1, Marunouchi 2-chome, Chiyoda-ku, Tokyo
100-8322 Japan

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- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
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Execution Date: December 16, 2004

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

☐ This document is being filed together with a new application

A. Patent Application No.(s)

10/935,286

B. Patent No.(s)

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PATENT
REEL: 016161 FRAME: 0561

Assignment of Application

WHEREAS, I (WE) Yoshihiro Emori, c/o The Furukawa Electric Co., Ltd., 6-1, Marunouchi 2-chome, Chiyoda-ku,
Tokyo 100-8322, Japan
~~Jake Bromage, c/o The Furukawa Electric Co., Ltd., 791 Holmdel-Keyport Road, Holmdel, New
Jersey 07033~~
~~Lynn E. Nelson, c/o The Furukawa Electric Co., Ltd., 791 Holmdel-Keyport Road, Holmdel, New
Jersey 07033~~
Shu Namiki, c/o The Furukawa Electric Co., Ltd., 6-1, Marunouchi 2-chome, Chiyoda-ku,
Tokyo 100-8322 Japan
Jake Bromage, c/o University of Rochester, 250 East River Road,
Rochester, NY 14623 USA
Lynn E. Nelson, c/o OFS Laboratories, 25 Schoolhouse Road, Somerset,
NJ 08873 USA

_____, respectively,

have invented certain new and useful improvements in: RAMAN AMPLIFIER, PUMP SOURCE FOR USE IN A
RAMAN AMPLIFIER AND METHOD FOR AMPLIFYING AN OPTICAL SIGNAL

(Application No. 10/935,286, filed September 8, 2004), and

WHEREAS, The Furukawa Electric Co., Ltd.,

(hereinafter referred to as "ASSIGNEE") having a place of business at: 6-1, Marunouchi 2-chome, Chivoda-ku, Tokyo 100-8322 Japan is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries:

NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I (WE), by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.

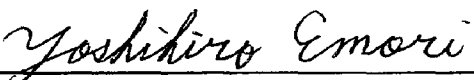
I (WE) hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my (our) entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its (his) successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me (us) had this Assignment and sale not been made.

06/04

Further, I (WE) agree that I (WE) will communicate to said ASSIGNEE or its (his) representatives any facts known to me (us) respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letter Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.

The undersigned hereby grant(s) the firm of Oblon, Spivak, McClelland, Maier & Neustadt, P.C. of 1940 Duke Street, Alexandria, Virginia 22314 the power to insert on this assignment any further identification, including the application number and filing date, which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

Date: Dec. 16, 2004


(Signature of Inventor) Yoshihiro Emori


Date: Dec. 16, 2004


(Signature of Inventor) Jake Bromage

Date: Dec. 16, 2004


(Signature of Inventor) Lynn E. Nelson

Date: Dec. 16, 2004


(Signature of Inventor) Shu Namiki

Date: _____

(Signature of Inventor)

Date: _____

(Signature of Inventor)

OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, P.C.
ATTORNEYS AT LAW
1940 DUKE STREET
ALEXANDRIA, VIRGINIA 22314