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FORM PTO-1596

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RECORDATION FORM COVER SHEET

U.S. DEPARTMENT OF COMMERCE

Patent and Trademark Office

Docket No.: 50212-422

PATENTS ONLY

To the Honorable Commissioner for Patents and Trademarks: Please record the attached original documents or copy thereto:

1. Name of Conveying Party(ies):

Masayuki INOUE and Masayuki NISHIMURA

Additional name(s) of conveying party(ies) attached? ☐ Yes

3. Nature of Conveyance:

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

Execution Date: September 2, 2002

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

Name: SUMITOMO ELECTRIC INDUSTRIES, LTD.

Address: 5-33, Kitahama 4-chome, Chuo-ku,

Osaka-shi,

Osaka, 541-0041 JAPAN

Additional name(s) & address(es) attached? ☐ Yes

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

10254839

If the document is being filed together with a new application, the execution date of the application is: September 2, 2002

A. Patent Application No(s).

B. Patent No(s).

Additional numbers attached? ☐ Yes

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

Name: MCDERMOTT, WILL & EMERY

Internal Address:

Street Address: 600 13th Street, N.W.

City: Washington State: DC Zip: 20005

6. Total number of applications and patents involved:

7. Total fee (37 CFR 3.41)

\$40.00

☐ Enclosed☒ Authorized to be charged to deposit account

8. Deposit account number:

500417

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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.

Arthur J. Steiner, 26,106

September 26, 2002

Name and Registration No. of Person Signing

Signature

Date

Total number of pages comprising cover sheet: 1

CMB No. 0851-0011 (exp. 4/94)

10/03/2002 670N11 00000007 500417 10254839

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40.00 CH

PATENT

REEL: 013339 FRAME: 0700

ASSIGNMENT

Whereas, I/we,

NameAddress

c/o Yokohama Works of Sumitomo Electric Industries, Ltd.,

1) **Masayuki INOUE**1, Taya-cho, Sakae-ku,
Yokohama-shi, Kanagawa 244-8588 Japan

c/o Yokohama Works of Sumitomo Electric Industries, Ltd.,

2) **Masayuki NISHIMURA**1, Taya-cho, Sakae-ku,
Yokohama-shi, Kanagawa 244-8588 Japan

hereinafter called assignor(s), have invented certain improvements in
Raman Amplification Method, Raman Amplifier, and Optical Transmission System

and executed an application for Letters Patent of the United States of America therefor on even date herewith unless
 otherwise indicated below:

filed on _____, Serial No. _____; and

Whereas

SUMITOMO ELECTRIC INDUSTRIES, LTD.
 5-33, Kitahama 4-chome, Chuo-ku,
 Osaka-shi, Osaka 541-0041 Japan

(assignee), desires to acquire the entire right, title and interest in the application and invention, and to any United States
 patents to be obtained therefor;

NOW THEREFORE, be it known that, for good and valuable consideration from assignee, the receipt of which is
 hereby acknowledged, I/WE, as assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign,
 transfer, and set over unto the assignee, its lawful successors and assigns, MY/OUR entire right, title, and interest in and to
 this invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States
 which may be granted thereon, and all reissues thereof; and I/WE hereby authorize and request the Commissioner of
 Patents and Trademarks of the United States to issue all Letters Patent for this invention to assignee, its successors and
 assigns, in accordance with the terms of this Assignment;

AND, I/WE HEREBY further covenant and agree that I/WE will, without further consideration, communicate with
 assignee, its successors and assigns, any facts known to ME/US respecting this invention and testify in any legal
 proceeding, sign all lawful papers when called upon to do so, execute and deliver all papers that may be necessary or
 desirable to perfect the title to this invention in said assignee, its successors and assigns, execute all divisional,
 continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid assignee, its
 successors and assigns, to obtain and enforce proper patent protection for this invention in the United States, it being
 understood that any expense incident to the execution of such papers shall be borne by the assignee, its successors and
 assigns.

INVENTORSDATE SIGNED

1):

Name:

Masayuki Inoue
 Masayuki INOUE

Sep. 02, 2002

2):

Name:

Masayuki Nishimura
 Masayuki NISHIMURA

Aug. 29, 2002

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. § 261)