

02-04-2003

FORM PTO-1595

RE

U.S. DEPARTMENT OF COMMERCE



102355642

2001 Staas & Halsey LLP

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

1. Name of conveying party(ies):
- 1) Hirotoimo IZUMI 2) Takashi ISHIWADA 3) Nobuaki MITAMURA

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

FUJITSU LIMITED
 1-1, Kamikodanaka, 4-chome
 Nakahara-ku, Kawasaki-shi
 Kanagawa 211-8588 Japan

3. Nature of conveyance:

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

Execution Date(s): November 11, 2002; November 26, 2002; and November 11, 2002, respectively.

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

☒ This document is being filed together with a new application:

(a) The execution date(s) of the application is/are: November 11, 2002; November 26, 2002; and November 11, 2002, respectively.

(b) The title is: TRANSMISSION WAVELENGTH CHARACTERISTICS VARIABLE OPTICAL ELEMENT, AND WAVELENGTH CHARACTERISTICS VARIABLE APPARATUS, OPTICAL AMPLIFIER, AND OPTICAL TRANSMISSION SYSTEM, USING SAME

☐ This document is being filed after filing of the application:

(a) Patent Application No(s). _____ / _____, filed _____; or
 (b) Patent No(s). _____, issued _____

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

STAAS & HALSEY LLP
 Attention: John C. Garvey
 700 Eleventh Street, N.W., Suite 500
 Washington, D.C. 20001

Our Docket: 1344.1115

6. Total number of applications and patents involved: 1

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

☒ Enclosed
☐ Authorized to be charged to deposit account.

8. Deposit Account No.: 19-3935 (Any underpayment is authorized to be charged to this Deposit Account)
 (Attach duplicate copy of this page if paying by deposit account)

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.

John C. Garvey, Reg. No. 28,607
 Name of Person Signing

Signature

January 27, 2003
 Date

Total number of pages including cover sheet: 2

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01/28/2003 WPH/ARI 0000029 10351376
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PATENT
 REEL: 013708 FRAME: 0450

U.S. ASSIGNMENT

S&H 1/00

IN CONSIDERATION of the sum of One Dollar (\$1.00), and of other good and valuable consideration paid to the undersigned inventor(s) (hereinafter, "ASSIGNOR") by
(Insert Name(s) & Address(es) of ASSIGNEE(S))

FUJITSU LIMITED of 1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki-shi, Kanagawa 211-8588 Japan

(hereinafter, "ASSIGNEE"), the receipt of which is hereby acknowledged, the undersigned ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest to the invention entitled
(Title of Invention)

TRANSMISSION WAVELENGTH CHARACTERISTICS VARIABLE OPTICAL ELEMENT, AND WAVELENGTH CHARACTERISTICS
VARIABLE APPARATUS, OPTICAL AMPLIFIER, AND OPTICAL TRANSMISSION SYSTEM, USING SAME

relating to International Patent Application PCT/IP / and/or for which application for Letters Patent of the United States was executed on even date herewith or, if not so executed, was:

(a) executed on _____; (Insert date of execution of application, if not concurrent)

(b) filed on _____

Serial No. ____/____;

Any registered attorney of STAAS & HALSEY LLP, 700 Eleventh Street, N.W., Washington, D.C. 20001 (202/434-1500) is hereby authorized to insert in (b) the specified data, when known.

and to said application and all Letters Patent(s) of the United States granted on said application and any continuation, division, renewal, substitute, reissue or reexamination application based thereon, for the full term or terms for which the said Letters Patent(s) may be granted and including any extensions thereof (collectively, hereinafter, "said application(s) and Letters Patent(s)").

The ASSIGNOR agree(s), when requested by said ASSIGNEE and without charge to but at the expense of said ASSIGNEE, to do all acts which the ASSIGNEE may deem necessary, desirable or expedient, for securing, maintaining and enforcing protection for said invention, including in the preparation and prosecution of said application(s) and the issuance of said Letters Patent(s), in any interference, reissue, reexamination, or public use proceeding, and in any litigation or other legal proceeding which may arise or be declared in relation to same, such acts to include but not be limited to executing all papers, including separate assignments and declarations, taking all rightful oaths, providing sworn testimony, and obtaining and producing evidence.

IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s).

(Typed Name & Signature of Inventor(s))

(Date)

(Typed Name & Signature of Witness(es))

1) <u>Hiroto IZUMI</u> Hiroto IZUMI	<u>Nov. 11. 2002</u>	<u>Yasuko SOGA</u> Yasuko SOGA
2) <u>Takashi ISHIWADA</u> Takashi ISHIWADA	<u>Nov. 26. 2002</u>	<u>Yasuko SOGA</u> Yasuko SOGA
3) <u>Nobuaki MITAMURA</u> Nobuaki MITAMURA	<u>Nov. 11. 2002</u>	<u>Yasuko SOGA</u> Yasuko SOGA
4) _____	_____	_____
5) _____	_____	_____