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FORM PTO-1595
1-31-92



03-29-2002



102036192

DEPARTMENT OF COMMERCE
Patent and Trademark Office

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

1. Name of conveying party(ies):

Satoshi ARAKAWA; Tatsuto KUROBE; Nariaki IKEDA; and
Takeharu YAMAGUCHI

3/25/02

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,
JAPAN

3. Nature of Conveyance:

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

Execution Date: February 20, 2002

Additional name(s) and address(es) attached? ☐ Yes ☒ 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)

10/044,990

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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



22850

6. Total applications and patents involved: 1

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

- ☒ Enclosed
☐ Authorized to be charged to deposit account

8. Deposit account number: 15-0030

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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.

Bradley D. Lytle

Name of Person Signing

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Signature

3/25/02

Date

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Commissioner of Patents and Trademarks
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PATENT
REEL: 012716 FRAME: 0932

Assignment of Application

WHEREAS, I (WE) Satoshi ARAKAWA, Tatsuto KUROBE, Nariaki IKEDA, Takeharu YAMAGUCHI of
Chiyoda-ku, Tokyo, JAPAN

INSERT NAMES
AND RESIDENCE
ADDRESS OF
THE INVENTORS

INSERT TITLE
OF INVENTION

, respectively,
 have invented certain new and useful improvements in: SECONDUCTOR OPTICAL DEVICE AND METHOD
FOR FABRICATING SAME

INSERT DATE IN-
VENTORS SIGNED
DECLARATION

for which an application for Letters Patent was executed on _____
 (Application No. 10/044,990, filed January 15, 2002), and

INSERT NAME
AND ADDRESS OF
COMPANY OR
OTHER ASSIGNEE

WHEREAS, The Furukawa Electric Co., Ltd.
 (hereinafter referred to as "ASSIGNEE") having a place of business at: 6-1, Marunouchi 2-chome Chiyoda-ku,
Tokyo, 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;

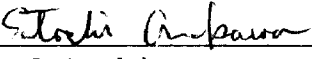
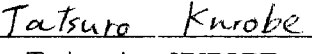


NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby
 acknowledged, and for other good and valuable consideration, I (WE), by these presents do sell, assign and transfer
 unto said ASSIGNEE, the full and exclusive right to the said invention in the United 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.

10/01

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.

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 Fourth Floor, 1755 Jefferson Davis Highway, Arlington, Virginia 22202 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: February 20, 2002	
February 20, 2002	(Signature of Inventor) Satoshi ARAKAWA
Date: February 20, 2002	
February 20, 2002	(Signature of Inventor) Tatsuto KUROBE
Date: February 20, 2002	
February 20, 2002	(Signature of Inventor) Nariaki IKEDA
Date: February 20, 2002	
February 20, 2002	(Signature of Inventor) Takeharu YAMAGUCHI
Date: _____	(Signature of Inventor) _____
Date: _____	(Signature of Inventor) _____
Date: _____	(Signature of Inventor) _____
Date: _____	(Signature of Inventor) _____

OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, P.C.
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