

PATENTS ONLY

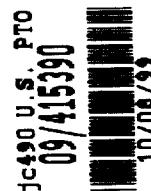
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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying parties:

Hitoshi SHIMIZU
Kouji KUMADA
Akihiko KASUKAWA

2. Name and address of receiving party:

THE FURUKAWA ELECTRIC CO., LTD.
6-1, Marunouchi 2-chome,
Chiyoda-ku, Tokyo, Japan

10-19-1999



101174002

3. Nature of conveyance: - ASSIGNMENT

Execution Date(s): October 5, 1999 (all three inventors), _____, _____, respectively.

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

09415390

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

October 5, 1999 (all three inventors), _____, _____, respectively.

A. Patent Application No. (s)

B. Patent No.(s)

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

FRISHAUF, HOLTZ, GOODMAN, LANGER & CHICK, P.C.
767 Third Avenue, 25th Floor
New York, New York 10017-20236. Total number of applications and patents involved: 17. Total fee (37 CFR 3.41): \$ 40.00

[] Amount included with filing fee attached hereto.

[X] Check enclosed.

8. To the extent not tendered by check, authorization is given to charge the Assignment Fee (37 CFR.341) to Account No. 06-1378.

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.

Dated: October 8, 1999

By

HERBERT GOODMAN
Reg. No. 17,081Express Mail® Mailing Label No. EL 425 833 054 USDate of Deposit: October 8, 1999

I hereby certify that this paper and enclosed application and fee are being deposited with the United States Postal Service "Express Mail Post Office Addresses" service under 37 CFR 1.10 on the date indicated above and is addressed to the Commissioner of Patent and Trademarks, Washington, D.C. 20231.

Laraine Dobies

8/4/93

Total number of pages including cover sheet, attachments and document: 2

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PATENT
REEL: 010309 FRAME: 0541

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(17557)**ASSIGNMENT**

In consideration of value received, I, having a residence and post office address as stated below next to my name, the sole inventor (if only one name is listed below) or a joint inventor (if plural names are listed below) of an invention described in an application for United States patent entitled:

N-TYPE MODULATION-DOPED MULTI QUANTUM WELL SEMICONDUCTOR LASER DEVICE
sell and assign to THE FURUKAWA ELECTRIC CO., LTD.

a corporation of Japan
having a business address at 6-1, Marunouchi 2-chome, Chiyoda-ku, Tokyo, Japan

its successors, assigns or nominees, hereinafter referred to as "Assignee", my entire right, title and interest in and to said invention as disclosed, shown and described in said application for United States patent executed concurrently herewith;

and in and to all applications for patent and patents for said invention, in all countries of the world, including all divisions, reissues, continuations, substitutions and extensions thereof and all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property, including rights of priority, resulting from the filing of any of said applications; and I authorize and request any official whose duty it is to issue patents, to issue any patent on said invention or resulting therefrom to said Assignee, and I agree that on request and without further consideration, but at the expense of said Assignee, I will communicate to said Assignee or its representatives all facts known to me respecting said invention and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue, or other applications, make all rightful oaths and declarations, and generally do everything possible to aid said Assignee to obtain and enforce proper patent protection for said invention in all countries.

I hereby grant to any attorney member of the following law firm the power to insert on this Assignment the Serial Number and filing date of said application when known.

SERIAL NO.:

FILING DATE:

Frishauf, Holtz, Goodman, Langer & Chick, P.C., 767 Third Avenue - 25th Floor, New York, N.Y. 10017-2023.

INVENTOR: SIGNATURE**DATE****ADDRESS**

Sign: <i>Hitoshi Shimizu</i>	Date: October 5, 1999	Address: c/o THE FURUKAWA ELECTRIC CO., LTD. 6-1, Marunouchi 2-chome, Chiyoda-ku, Tokyo, Japan
Type: Hitoshi SHIMIZU	Witness:	
Sign: <i>Kouji Kumada</i>	Date: October 5, 1999	Address: c/o THE FURUKAWA ELECTRIC CO., LTD. 6-1, Marunouchi 2-chome, Chiyoda-ku, Tokyo, Japan
Type: Kouji KUMADA	Witness:	
Sign: <i>Akihiko Kasukawa</i>	Date: October 5, 1999	Address: c/o THE FURUKAWA ELECTRIC CO., LTD. 6-1, Marunouchi 2-chome, Chiyoda-ku, Tokyo, Japan
Type: Akihiko KASUKAWA	Witness:	

NOTES: MUST BE DATED.**WITNESS DESIRABLE.****LEGALIZATION NOT REQUIRED.**

RECORDING OFFICER:

After recording, please return to:

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RECORDED: 10/08/1999

PATENT
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