

FORM PTO-1595
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... attached original documents or copy thereof.

MCD 3-15-99

JCS42 U.S. PTO
09/268615
03/15/99

1. Name of conveying party(ies):

Masahito Watanabe
Minoru Eguchi

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

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

Name: NEC CORPORATION

Internal Address:

Street Address: 7-1, Shiba 5-chome, Minato-ku

City: Tokyo State: JAPAN ZIP: JAPAN

Additional name(s) & address(es) attached? Yes No

3. Nature of conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Other

Execution Date: March 12, 1999

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

09/268,615

If this document is being filed together with a new application, the execution date of the application is: March 12, 1999

A. Patent Application No.(s)

03/23/1999 GWASHING 00000029 09268615

05 FC:581

(40.00 OP)

B. Patent No.(s)

Additional numbers attached? Yes No

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

Name: Norman P. Soloway

Internal Address:

Street Address: HAYES, SOLOWAY, HENNESSEY, GROSSMAN & HAGE
175 Canal Street

City: Manchester State: NH ZIP: 03101

6. Total number of 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:

08-1391

(Attach duplicate copy of this page if paying by deposit account)

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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.

Norman P. Soloway
Name of Person Signing

Norman P. Soloway
Signature

March 15, 1999

PATENT Date

Total number of pages comprising this sheet: 3
REEL: 9837 FRAME: 0792

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ASSIGNMENT

FOREIGN - IN THE UNITED STATES OF AMERICA

I/we MASAHITO WATANABE and MINORU EGUCHIof Tokyo, Japanhaving invented certain inventions and improvements in APPARATUS FOR GROWING
A SEMICONDUCTOR CRYSTAL AND METHOD OF GROWING THE SAME

and having executed an application for Letters Patent of the United States of America describing the same and based thereon on March 12, 1999; (and I/we hereby authorize our attorneys, authorized to prosecute said application, to here insert the filing date and serial number of said application, when known, Serial No. _____, filed _____), for good and valuable consideration, the receipt of which is hereby acknowledged from **NEC CORPORATION**, a Japanese corporation having its principal place of business at 7-1, Shiba 5-chome, Minato-Ku, Tokyo, Japan, (hereinafter called the Assignee), do hereby sell, assign and transfer unto the Assignee, its successors, and assigns my/our entire right, title, and interest, in and to said invention in the United States of America, including all rights, title and interest in the above-mentioned application and any divisional, continuing or reissue application or applications and any patent which may be issued on the said invention in the United states of America;

And for the same consideration I/we do agree that I/we will upon request execute any instrument which the Assignee may desire to carry this Assignment into effect and perfect the title transferred hereby or prosecute the above-mentioned application;

And I/we do hereby authorize and request the Commissioner of Patents and Trademarks of the United States of America to issue Letters Patent on the said application to the Assignee;

And I/we do hereby jointly and severally covenant for ourselves and for our legal representatives that I/we have granted no right or license to make, use, or sell said inventions to anyone except the Assignee, that prior to the execution of this deed our right, title, and interest in and to said inventions or any of them or any part thereof has not been otherwise encumbered by us, and that I/we have not executed and will not execute any instrument in conflict herewith.

IN WITNESS WHEREOF, I/we hereunto set our hands and seals on the day and year hereinafter noted.

Sole or first

Inventor's signature Masahito Watanabe  Date March 12, 1999

Full name (typed or printed) MASAHITO WATANABE

Witness: Fumitake Watanabe Witness: Fumitake Watanabe

Date: March 12, 1999 Date: March 12, 1999

Second Inventor's

signature Minoru Eguchi  Date March 12, 1999

Full name (typed or printed) MINORU EGUCHI

Witness: Fumitake Watanabe Witness: Fumitake Watanabe

Date: March 12, 1999 Date: March 12, 1999

Third Inventor's

signature _____ Date _____

Full name (typed or printed) _____

Witness: _____ Witness: _____

Date: _____ Date: _____

Fourth Inventor's

signature _____ Date _____

Full name (typed or printed) _____

Witness: _____ Witness: _____

Date: _____ Date: _____