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U.S. DEPARTMENT OF COMMERCE  
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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 party(ies):

Hiroki KOGA

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

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

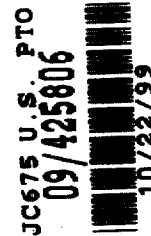
Name: NEC CORPORATION

Internal Address: \_\_\_\_\_

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

City: Tokyo State: JAPAN ZIP: 106

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



3. Nature of conveyance:

- Assignment  Merger
- Security Agreement  Change of Name
- Other \_\_\_\_\_

Execution Date: October 15, 1999

4. Application number(s) or patent number(s): 09/425806

If this document is being filed together with a new application, the execution date of the application is: October 15, 1999

A. Patent Application No.(s)

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

October 22, 1999  
Date

Total number of pages, including cover sheet: 3

10/22/1999 09:42:58

**ASSIGNMENT**

**FOREIGN - IN THE UNITED STATES OF AMERICA**

I/~~WE~~, HIROKI KOGA

of Kanagawa, Japan

having invented certain inventions and improvements in

OUTPUT BUFFER CIRCUIT

and having executed an application for Letters Patent of the United States of America describing the same and based thereon on October

15th, 1999, 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 our entire rights, 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 hereby 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 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 rights, 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 have hereunto set our hands and seals on the day and year hereinafter noted.

**Sole or First**

Inventor's signature *Hiroyuki Koga*  Date October 15, 1999  
 Full name (typed or printed) HIROKI KOGA

Witness: *Natali Ulkari*  
 Date: October 15, 1999

Witness: *[Signature]*  
 Date: October 15, 1999

**Second Inventor's**

signature \_\_\_\_\_ Date \_\_\_\_\_  
 Full name (typed or printed) \_\_\_\_\_

Witness: \_\_\_\_\_  
 Date: \_\_\_\_\_

Witness: \_\_\_\_\_  
 Date: \_\_\_\_\_

**Third Inventor's**

signature \_\_\_\_\_ Date \_\_\_\_\_  
 Full name (typed or printed) \_\_\_\_\_

Witness: \_\_\_\_\_  
 Date: \_\_\_\_\_

Witness: \_\_\_\_\_  
 Date: \_\_\_\_\_