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If this document is being filed together with a new application, the execution date of the application is: May 15, 2003

A. Patent Application No.(s)  
Unknown

B. Patent No.(s)

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5. Name and address of party to whom correspondence concerning document should be mailed:  
SUGHRUE MION, PLLC  
WASHINGTON OFFICE

23373  
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6. Total number of applications and patents involved:  
1

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J. Frank Osha Reg. No. 24,625 June 3, 2003  
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PATENT  
REEL: 014143 FRAME: 0787

# Assignment

Whereas, I/We, Akinobu Sato of  
Tokyo, Japan

hereinafter called assignor(s), have invented certain improvements in

\_\_\_\_\_ and executed an application for Letters Patent of the United States of America therefor on \_\_\_\_\_; and


Whereas, NEC Corporation  
7-1, Shiba 5-chome, Minato-ku,  
Tokyo, Japan

(assignee), desires to acquire the entire right, title, and interest in the application and invention, and to any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

I/We, the above named assignor(s), hereby sell, assign and transfer to the above named assignee, its successors and assigns, the entire right, title and interest in the application and the invention disclosed therein for the United States of America, including the right to claim priority under 35 U.S.C. §119, and I/we request the Director – U.S. Patent and Trademark Office to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and I/we will execute without further consideration all papers deemed necessary by the assignee in connection with the United States application when called upon to do so by the assignee.

I/We hereby authorize and request our attorneys SUGHRUE MION, PLLC of 2100 Pennsylvania Avenue, NW, Washington, DC 20037-3213 to insert here in parentheses (Application number \_\_\_\_\_ and Confirmation number \_\_\_\_\_, filed \_\_\_\_\_) the filing date and application number of said application when known.

Date: May 15, 2003 Akinobu Sato   
s/ Akinobu Sato

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

Witness: \_\_\_\_\_ s/

Date: May 15, 2003 Masato Kimura  
s/

Date: May 15, 2003 [Signature]  
s/

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. §261)