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101663446  
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To the Commissioner for Patents. Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):  
Yuuichi SANO

3/27/01

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

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

Additional name(s) of conveying party(ies) attached?

☐ yes ☒ no

3. Nature of Conveyance:

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

Additional name(s) &amp; address(es) attached?

☐ yes ☒ no

Execution Date: March 8, 2001

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: March 8, 2001

A. Patent Application No.(s)/Confirmation No.(s)

B. Patent No.(s)

09817049

Additional numbers attached? ☐ Yes ☒ No

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

SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC  
2100 Pennsylvania Avenue, N.W.  
Suite 800  
Washington, D.C. 20037-32136. Total number of applications and registration involved:  
17. Total Fee (37 CFR 3.41): \$40.00  
☒ Enclosed. Please charge any underpayment in connection with this Assignment to Deposit Account No. 19-4880.  
☐ Authorized to be charged to Deposit Account8. Deposit Account No.  
19-4880

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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.

J. Frank Osha

Reg. No. 24,625

March 27, 2001

Date

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04/12/2001 TDIAG1 00000247 09817049

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PATENT  
REEL: 011666 FRAME: 0247

# Assignment

Whereas, I/~~WE~~,YUUCHI SANO  
Kumamoto, Japan

of

hereinafter called assignor(s), have invented certain improvements in  
SEMICONDUCTOR MEMORY APPARATUS THAT CAN SURELY ATTAIN DISCHARGE OPERATION  
WHILE REDUCING DISCHARGE PERIOD WHEN READING OPERATION IS DONE

and executed an application for Letters Patent of the United States of America therefor on  
March 8, 2001 ; 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 Commissioner of Patents 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 my attorneys SUGHRUE, MION, ZINN, MACPEAK & SEAS of  
2100 Pennsylvania Avenue, N.W., Washington, D.C. 20037-3202 to insert here in parentheses (Application  
number \_\_\_\_\_, filed \_\_\_\_\_) the filing date and application  
number of said application when known.

Date: March 8, 2001 s/

Yuichi Sano

YUUCHI SANO

Date:

s/

Date:

s/

Witness:

Date: March 8, 2001 s/

Hitoshi Ukai

Date: March 8, 2001 s/

Hitoshi Ukai

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