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and original documents or copy thereof.

To the Assistant Comm

1. Name of conveying party(ies):  
Yukiya KAWAKAMI, Shigeru TOHYAMA  
  
Additional name(s) of conveying party(ies) attached?  
 yes  no

2. Name and address of receiving party(ies)?  
NEC CORPORATION  
7-1, Shiba 5-chome  
Minato-ku, Tokyo, Japan

1-c678 U.S. PTO  
09/451770  
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3. Nature of Conveyance:  
 Assignment  Merger  
 Security Agreement  Change of Names  
 Other

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 yes  no

Execution Date: November 12, 1999

4. Application number(s) or patent number(s): **09451770**  
If this document is being filed together with a new application, the execution date of the application is: November 12, 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:  
SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC  
2100 Pennsylvania Avenue, N.W.  
Suite 800  
Washington, D.C. 20037-3213

6. Total number of applications and registration involved:  
**1**  
7. Total Fee (37 CFR 3.41): \$40.00  
 Enclosed. Please charge any underpayment in connection with this Assignment to 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 December 1, 1999 Date

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12/09/1999 TTON11 00000183 09451770  
01 FC:581 40.00 09

# Assignment

Whereas, ~~we~~ We, YUKIYA KAWAKAMI and SHIGERU TOHYAMA of  
Tokyo, Japan

hereinafter called assignor(s), have invented certain improvements in  
CHARGE COUPLED DEVICE HAVING CHARGE ACCUMULATING LAYER FREE FROM TWO-DIMENSIONAL  
EFFECT UNDER MINIATURIZATION AND PROCESS FOR FABRICATION THEREOF  
and executed an application for Letters Patent of the United States of America therefor on  
November 12, 1999 ; 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,

~~We~~ 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  
~~we~~ 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 ~~we~~ 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.

~~We~~ 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: November 12, 1999 s/ Yukiya Kawakami   
YUKIYA KAWAKAMI

Date: November 12, 1999 s/ Shigeru Tohyama   
SHIGERU TOHYAMA

Date: \_\_\_\_\_ s/ \_\_\_\_\_

Witness:  
Date: November 12, 1999 s/ Fumitake Watanabe

Witness:  
Date: November 12, 1999 s/ [Signature]

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