

07-14-1998

Form PTO-1595
1-31-92



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):
Takeshi MATSUMOTO and Hiroaki MARUYAMA
Additional name(s) of conveying party(ies) attached?
 yes no

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

JCS30 U.S. PTO
09/110401
07/14/98

3. Nature of Conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other
Execution Date: June 24, 1998

Additional name(s) & address(es) attached?
 yes no

4. Application number(s) or patent number(s): 1
If this document is being filed together with a new application, the execution date of the application is: 06/24/98
A. Patent Application No.(s) B. Patent No(s).
Additional numbers attached? Yes No

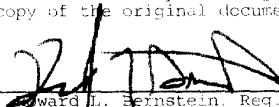
5. Name and address of party to whom correspondence concerning document should be mailed:
J. Frank Osha, Esq.
SUGHRUE, MION, ZINN, MACPEAR & SEAS, PLLC
2100 Pennsylvania Avenue, N.W.
Suite 800
Washington, D.C. 20037-3202

6. Total number of applications and patents 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.

Edward L. Bernstein, Reg. No. 25,665 Date July 6, 1998
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Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents and Trademarks
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Assignment

Whereas, ~~#~~We, TAKESHI MATSUMOTO and HIROAKI MARUYAMA of
Tokyo, Japan and Kanagawa, Japan, respectively

hereinafter called assignor(s), have invented certain improvements in
SEMICONDUCTOR DEVICE WITH REDUCED NUMBER OF THROUGH HOLES
AND METHOD OF MANUFACTURING THE SAME
and executed an application for Letters Patent of the United States of America therefor on
June 24, 1998 ; 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, 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 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 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 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: June 24, 1998^{s/} Takeshi Matsumoto 
TAKESHI MATSUMOTO

Date: June 24, 1998^{s/} Hiroaki Maruyama
HIROAKI MARUYAMA

Date: s/ _____

Date: s/ _____

Date: s/ _____

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

8/92 Witness : [Signature]
[Signature]

PATENT