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Form PTO-1595
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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.

68904 U.S. PTO

08/18/97

1. Name of conveying party(ies):
Hisashi TAKEMURA
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

Signature of Conveyance:
Assignment Merger
 Security Agreement Change of Name
 Other
Execution Date: August 12, 1997

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

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: 08/12/97
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, MACPEAK & SEAS, PLLC
2100 Pennsylvania Avenue, N.W.
Suite 800
Washington, D.C. 20037-3202

6. Total number of applications and patents involved: One

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
J. Frank Osha, Reg. No. 24,625
August 18, 1997
Date

TOTAL NUMBER OF PAGES COMPRISING COVER SHEET, ATTACHMENTS AND DOCUMENT: 2

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Mail documents to be recorded with required cover sheet information to:
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07/20/1999 DNGUYEN 00000441 HISASHI T

01 FC:581

40.00 DP

Assignment

Whereas, ~~I/We~~, HISASHI TAKEMURA of
Tokyo, Japan

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

ELECTRIC FIELD EMISSION COLD CATHODE

and executed an application for Letters Patent of the United States of America therefor on
August 12, 19 97 ; 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: August 12, 1997

Hisashi Takemura
HISASHI TAKEMURA

Witness:

Masaaki Takemura *Attest*