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To the Director of the U.S. Patent and Trademark Office: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):
Takefumi OGUMA
Nobutaka WATANABE



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 Name
 Other

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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:
A. Patent Application No.(s)
10/365,552

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, PLLC
WASHINGTON OFFICE

23373
PATENT TRADEMARK OFFICE

6. Total number of applications and patents involved:
1

7. Total fee (37 CFR 3.41): \$40.00
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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.

Robert M. Masters Reg. No. 35,603 June 30, 2003 Date

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PATENT
REEL: 014226 FRAME: 0018

Assignment

Whereas, I/We, Takefumi OGUMA and Nobutaka WATANABE of Tokyo, Japan

hereinafter called assignor(s), have invented certain improvements in "HEATING ELEMENT DEVICE, HEATING ELEMENT MOUNTED STRUCTURE, TEMPERATURE CONTROL CIRCUIT, TEMPERATURE CONTROL APPARATUS, AND MODULE"

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 10/365,552 and Confirmation number 4024, filed February 13, 2003) the filing date and application number of said application when known.

Date: May 26, 2003 Takefumi Oguma 
s/ Takefumi OGUMA

Date: May 26, 2003 Nobutaka Watanabe 
s/ Nobutaka WATANABE

Witness:
Date: May 26, 2003 Taduyoshi Taniyama
s/ Taduyoshi Taniyama
Date: May 26, 2003 [Signature]
s/ [Signature]

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