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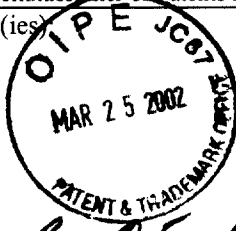
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U.S. DEPARTMENT OF COMMERCE
U.S. Patent and Trademark Office

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Tetsuo TSUCHIYA
Susumu MIZUTA
Toshiya KUMAGAI
Tsutomu YOSHITAKE
Yuichi SHIMAKAWA
Yoshimi KUBO



3.85.02

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

National Institute of Advanced Industrial Science and Technology,
1-3-1, Kasumigaseki,
Chiyoda-ku, Tokyo 100-8921 Japan

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

Execution Date: March 13, 2002 and March 14, 2002

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: March 14, 2002

A. Patent Application No.(s)
09/984,846

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
2100 Pennsylvania Avenue, N.W.
Suite 800
Washington, D.C. 20037-3213

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.
☐ Authorized to be charged to deposit account

8. Deposit account number:

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 25, 2002

Date

Total number of pages including cover sheet, attachments, and documents: 3
Mail documents to be recorded with required cover sheet information to:

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Washington, D.C. 20231

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PATENT
REEL: 12810 FRAME: 0816

Assignment

Whereas, I / We,

**TETSUO TSUCHIYA, SUSUMU MIZUTA, TOSHIYA KUMAGAI, TSUTOMU YOSHITAKE,
YUICHI SHIMAKAWA, and YOSHIMI KUBO** of
Ibaraki, Japan; Ibaraki, Japan; Ibaraki, Japan; Tokyo, Japan; Tokyo, Japan; and
Tokyo, Japan, respectively,

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

METHOD OF MANUFACTURING OXIDE THIN FILM FOR BOLOMETER

and executed an application for Letters Patent of the United States of America therefor on

March 13, 2002 ; and

Whereas,

**National Institute of Advanced Industrial Science and Technology,
1-3-1, Kasumigaseki, Chiyoda-ku, Tokyo 100-8921 Japan, and
NEC Corporation,
7-1, Shiba 5-chome, Minato-ku, Tokyo, Japan**

(assignee(s)), 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. 20037-3213 to insert here in parentheses (Application
number 09/984,846 , filed October 31, 2001) the filing date and application
number of said application when known.

Date: March 13, 2002

TETSUO TSUCHIYA

SUSUMU MIZUTA

TOSHIYA KUMAGAI

TSUTOMU YOSHITAKE

YUICHI SHIMAKAWA

YOSHIMI KUBO

Witness:

PATENT

REEL: 12810 FRAME: 0817

Assignment

Whereas, I / We,

**TETSUO TSUCHIYA, SUSUMU MIZUTA, TOSHIYA KUMAGAI, TSUTOMU YOSHITAKE,
YUICHI SHIMAKAWA, and YOSHIMI KUBO** of
Ibaraki, Japan; Ibaraki, Japan; Ibaraki, Japan; Tokyo, Japan; Tokyo, Japan; and
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Whereas,

**National Institute of Advanced Industrial Science and Technology,
1-3-1, Kasumigaseki, Chiyoda-ku, Tokyo 100-8921 Japan, and
NEC Corporation,
7-1, Shiba 5-chome, Minato-ku, Tokyo, Japan**

(assignee(s)), 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. 20037-3213 to insert here in parentheses (Application number 09/984,846 , filed October 31, 2001) the filing date and application number of said application when known.

Date: March 14, 2002

Tetsuo Tsuchiya
TETSUO TSUCHIYA

Susumu Mizuta
SUSUMU MIZUTA

Toshiya Kumagai
TOSHIYA KUMAGAI

TSUTOMU YOSHITAKE

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Witness:

Hiroshi Mizukami

Fumiyasu Hayashi