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

1. Name of conveying party(ies):

Tomoaki KATO

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

3. Nature of Conveyance:

☒ Assignment ☐ Merger☐ Security Agreement ☐ Change of Name☐ Other

Additional name(s) & address(es) attached?

☐ yes ☒ no

Execution Date: May 8, 1998

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: 05/08/98

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, 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.☐ Authorized to be charged to Deposit Account

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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

May 21, 1998
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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Washington, D.C. 20231PATENT
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Assignment

Whereas, I/~~XX~~^{WE}, TOMOAKI KATO of
Tokyo, Japan

hereinafter called assignor(s), have invented certain improvements in
WAVEGUIDE ELEMENT, WAVEGUIDE BRANCH OR COUPLER ELEMENT
AND WAVEGUIDE INTEGRATED CIRCUIT

and executed an application for Letters Patent of the United States of America therefor on
May 8, 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 where of is hereby acknowledged,

I/~~XX~~^{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. Code 119, and I/~~XX~~^{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/~~XX~~^{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.

Assignment

Whereas, I/~~WE~~,

TOMOAKI KATO
Tokyo, Japan

of

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

WAVEGUIDE ELEMENT, WAVEGUIDE BRANCH OR COUPLER ELEMENT
AND WAVEGUIDE INTEGRATED CIRCUIT

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35 U.S. Code 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.

Signed at Tokyo, Japan

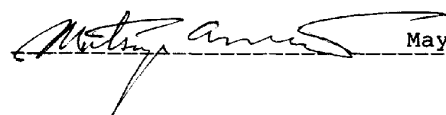
on May 8, 1998


TOMOAKI KATO

Witness

Date

 May 8, 1998

 May 8, 1998