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PATENT & TRADEMARK RECORD
P.

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):

Sandra TARTARELLI
Albert BANCHS

10.10.02

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

Execution Date: July 25, 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: July 25, 2002

A. Patent Application No.(s)
10/232,321

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.
☐ Authorized to be charged to Deposit Account No. 19-4880.

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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.

J. Frank Osha

Reg. No. 24,625

October 10, 2002

Date

Total number of pages including cover sheet, attachments, and documents: 2

Mail documents to be recorded with required cover sheet information to:

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10/16/2002 LMUELLER 00000211 10232321

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PATENT
REEL: 013373 FRAME: 0131

AssignmentWhereas, ~~we~~/ We,Sandra TARTARELLI and Albert BANCHS of
Heidelberg, GERMANY

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

METHOD OF TRANSMITTING DATA

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

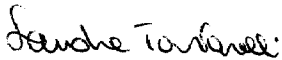
July 25, 2002

; and

Whereas,

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,

~~we~~/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~~/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~~/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~~/ We hereby authorize and request my attorneys SUGHRUE MION, PLLC of 2100 Pennsylvania
Avenue, N.W., Washington, D.C. 20037-3213 to insert here in parentheses (Application
number 10/232,321 , filed August 30, 2002) the filing date and application
number of said application when known.Date: 25 July 2002

Sandra TARTARELLI



Albert BANCHS

Witness:

JUERGEN QUITTEKHIROYUKI OKAZAKI