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Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):
NEC Corporation

5.19.03

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

Name: NEC Toppan Circuit Solutions, Inc.

Address:

2-2-7, Yacsu, Chuo-ku
Tokyo 104-0028
JAPAN

Name: Osaka Municipal Government

Address:

1-3-20, Nakanoshima, Kita-ku
Osaka-shi, Osaka
JAPAN

3. Nature of Conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ Other:Execution Date: October 23, 2002Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s):

A. Patent Application No.(s) 09/656657
Filed: 9/7/2000

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Perry J. Hoffman
Michael Best & Friedrich LLC
401 North Michigan Avenue
Suite 1900
Chicago, Illinois 60611
Phone: (312) 222-0800

6. Total number of applications and patents involved: 1

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

☒ Enclosed☒ Deficiencies in fee charged to Deposit Account8. Deposit account number: 50-1965

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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.*Thomas A. Miller (Reg. No. 36,871)
Name of Person Signing

Signature

May 14, 2003
DateAttorney File 201558-0013

Total number of pages including cover sheet, attachments, and document: 8

OMB No. 0651-0011 (exp. 4/94)

cc Docketing

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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): 11-7-00
Hisaya TAKAHASHI, Hirofumi NAKAMURA,
Masanobu IZAKI and Junichi KATAYAMA

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ OtherExecution Date: June 10, 2000

2. Name and address of receiving party(ies)

Name:

(1) NEC Corporation and
Internal Address: (2) Osaka Municipal Gover(1) 7-1, Shiba 5-chome, Minato-ku,
Tokyo, JAPAN(2) 1-3-20, Nakanoshima, Kita-ku
Osaka-shi, Osaka, JAPAN

Street Address:

(1) 7-1, Shiba 5-chome, Minato-ku
Tokyo, JAPAN(2) 1-3-20, Nakanoshima, Kita-ku
Osaka-shi, Osaka, JAPANAdditional name(s) & address(es) attached? ☐ Yes ☒ No4. Application number(s) or patent number(s): 09/656,657ATTORNEY DOCKET NO.: 1558-13

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No.(s)

B. Patent No.(s)

09/656,657Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

LAFF, WHITESEL, ~~XXXX~~ & SARET, LTD.

ATTORNEYS AT LAW

401 NORTH MICHIGAN AVENUE

CHICAGO, ILLINOIS 60611-4212

Direct Telephone Calls to: J. Warren Whitesel

at telephone No. (312) 661-2100. Fax (312) 661-0029

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as first-class mail in an envelope addressed to: Commissioner of Patents and Trademarks, Box Assignments, Washington, D.C. 20231 on 11-3-00Date: Joyce Ph.D.
TYPED NAME: Joyce Ph.D.6. Total number of applications and patents involved: 17. Total fee (37 CFR 3.41).....\$ 40.00☒ Enclosed☒ Authorized to be charged to deposit account8. Deposit account number: 12-0064

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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. WARREN WHITESEL
Name of Person SigningJoyce Ph.D.
Signature11-3-00
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ASSIGNMENT AND ADEQUACY

FOR VALUE RECEIVED, the receipt of which is hereby acknowledged,

NEC Corporation
7-1, Shiba 5-chome, Minato-ku, Tokyo, Japan

(hereinafter called "ASSIGNOR") hereby assigns, transfers and sets over to:

NEC Toppan Circuit Solutions, Inc.
2-2-7, Yaesu, Chuo-Ku, Tokyo, 104-0028 Japan

(hereinafter called "ASSIGNEE"), the entire worldwide right, title and interest in and to
the inventions known as:

- (1) Method for Forming a Cu Interconnect Pattern
Serial No. 09/656,657 Filed: September 7, 2000
Inventors: Hisaya TAKAHASHI; Hirofumi NAKAMURA, Masanobu IZAKI; and
Junichi KATAYAMA
- (2) Sn-Ag-Cu Solder and Surface Treatment and Parts Mounting Methods Using the Same
Serial No. 09/671,084 Filed: September 27, 2000
and
Serial No. 10/127,927 Filed: April 23, 2002 (a division of S.N. 09/671,084)
Inventors: Toshihiko ITO and Shiro HARA

and all rights and privileges under any Letters Patent which may be granted thereon,
including all rights, if any, throughout the entire world to sue for all past infringements
which may have occurred before the execution of this assignment.

(1) The ASSIGNOR agrees to give aid and assistance, without charge, to said
ASSIGNEE but at its expense (a) to execute (i) all necessary papers to be used in
connection with these applications and any additional, continuing, or divisional
applications, as the ASSIGNEE may deem necessary or expedient, (ii) all papers in
connection with any interference or other legal or quasi-legal proceedings relating to

these applications or any additional, continuing, or divisional application thereof, (iii) all papers and documents which may be necessary in connection with making claims to priority rights granted under the provisions of the International Convention for Protection of Industrial Property or similar agreements; (b) to cooperate with ASSIGNEE in every way possible in obtaining evidence and going forward in any such proceedings; and (c) to perform all other affirmative acts which may be necessary or desirable to obtain a grant of a valid patent for said invention in any country throughout the world.

(2) The ASSIGNOR has agreements with the inventors which commit them to give ASSIGNEE the aid and assistance listed in paragraph (1) above.

(3) ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks of the United States to issue any and all Letters Patent, included within this assignment, that may be granted upon any patent application or any additional, continuing or divisional applications thereof to the ASSIGNEE, its successors and assigns.

(4) ASSIGNOR hereby covenants and warrants that it has full right to convey the entire right, title and interest by this instrument, free of any encumbrances and that no other agreement has been or will be executed in conflict herewith.

(5) ASSIGNOR hereby grants to the law firm of MICHAEL BEST & FRIEDRICH, LLC of Chicago, Illinois, authority and power to insert on this instrument any further identification which may be necessary or desirable for purposes of recordation in the United States Patent and Trademark Office.

NEC CORPORATION

October 23, 2002

(Date)

By:

Masao Maruyama

(Title)

Masao Maruyama

Chief Manager

Planning Division

Intellectual Asset Operations Unit

ATTEST:

By:

Akira Muto

(Title)

Akira Muto

October 23, 2002

(Date)

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