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U.S. DEPARTMENT OF COMMERCE

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

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Patent and Trademark Office

Docket No.: KIM-01801

1. Name of conveying party(ies):

Ichiro HAZEYAMA; Sakae KITAJI; Yuzo SHIMADA; Akeo KATAHIRA; Jun ISHIDA; Masaru TERASHIMA; Kazuhiko FUTAGAMI

Additional name(s) of conveying party(ies) attached?

Yes \_\_\_ No X

3-25-02

Nature of conveyance:

- Assignment                      ( ) Merger
- ( ) Security Agreement            ( ) Change of Name
- ( ) Other:

Execution Date: March 6, 2002

2. Name and address of receiving party(ies)

Name: NEC Corporation

Internal Address: \_\_\_\_\_

Street Address: 7-1, Shiba 5-chome

Minato-ku, Tokyo, JAPAN

Additional name(s) & address(es) attached? Yes X No

JC986 U.S. PTO  
10/105580



03/25/02

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

If this document is being filed together with a new application, the execution date of the applications is: March 6, 2002

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? Yes \_\_\_ No X

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

Name: Patent Group  
 Internal Address: Hutchins, Wheeler & Dittmar  
 Street Address: 101 Federal Street  
 City: Boston State: MA ZIP: 02110

5. Total number of applications and patents involved: 1

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6. Total fee (37 CFR 3.41).....\$ \$40.00

- Enclosed
- ( ) Authorized to be charged to deposit account

7. Deposit account number:

(Attached duplicate copy of this page if paying by deposit account)

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8. 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.

Donald W. Muirhead; 33,978

Name of Person Signing

Signature

March 25, 2002

Date

Total number of pages including cover sheet, attachments, and document: 4

Mail documents to be recorded with required covered sheet information to:  
Commissioner of Patents & Trademarks, Box Assignments  
Washington, D.C. 20231

04/03/2002 TDIAZ1 00000232 10105580

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40.00 DP

HWDHWD2 986160v1

**PATENT**  
**REEL: 012741 FRAME: 0661**

**SECOND ASSIGNEE**

Japan E.M. Co., Ltd.  
348, Ohshima-cho  
Hamamatsu-shi  
Shizuoka, JAPAN

ASSIGNMENT

WHEREAS, each of the Undersigned has developed certain inventions described in U.S. patent application entitled:

TRANSFER APPARATUS FOR ARRAYING SMALL CONDUCTIVE BUMPS ON SUBSTRATE AND/OR CHIP

- (x) executed on even date herewith;
( ) executed on \_\_\_\_\_;
( ) now U.S. Application No. \_\_\_\_\_ filed \_\_\_\_\_;

and has full right to convey their entire interest, both legal and equitable, in and to said inventions free from all prior assignments, agreements, licenses, mortgages, security interests, or other encumbrances whatsoever; and

WHEREAS, NEC Corporation ("ASSIGNEE"), a Japanese corporation having executive offices at 7-1, Shiba 5-chome, Minato-ku, Tokyo, Japan, and Japan E.M.Co., Ltd. ("ASSIGNEE") a corporation having executive offices at 348, Ohshima-cho, Hamamatsu-shi, Shizuoka, Japan, are desirous of acquiring the entire right, title and interest in and to said invention or inventions and any and all patents to be obtained therefor;

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged by each of the Undersigned, each of the Undersigned hereby sells, assigns and transfers unto said ASSIGNEE, its successors and assigns, their entire right, title and interest in and to said invention or inventions, as described in the aforesaid application and all applications resulting therefrom, including any and all divisionals, continuations, continuations in part, substitute application, and reissues or extensions thereof; and all resulting patents;

AND each of the Undersigned hereby authorizes and requests the issuing authority to issue any and all patents on said application or applications to said ASSIGNEE or its successors and assigns; the Undersigned agree(s) that the attorney of record in said application shall hereinafter act on behalf of said ASSIGNEE;

AND, each of the Undersigned further agrees, without any further payment or compensation by said ASSIGNEE or its successors and assigns, to communicate to said ASSIGNEE, its representatives or agents or its successors and assigns, any facts relating to said invention or inventions including evidence for interference purposes or for other legal proceedings whenever requested; to testify in any interference or other legal proceedings, whenever requested; to execute and deliver, on request, all lawful papers required to make any of the foregoing provisions effective; and to generally do everything possible to aid said ASSIGNEE, its successors or assigns and nominees to secure, obtain and enforce proper patent protection for said invention or inventions in this or any foreign country;

Each of the undersigned hereby authorizes Hutchins, Wheeler & Dittmar, of 101 Federal Street, Boston, MA 02110, to insert hereon any further identification information necessary or desirable for recordation of this document.

Table with 3 columns: Inventors(s), Date Signed, Witnesses. Contains 4 rows of inventor signatures and dates (March 6, 2002) and witness signatures (Fumitake Watanabe and Daigo Ezuka).

( ) Additional inventors are being named on separately numbered sheets attached hereto.

ASSIGNMENT  
(continued)

Inventors(s)

Date Signed

Witnesses

5. Jun Ishida  
Name: JUN ISHIDA

March 6, 2002

Daigo Ezuka

6. Masaru Terashima  
Name: MASARU TERASHIMA

March 6, 2002

Daigo Ezuka

7. Kazuhiko Futagami  
Name: KAZUHIKO FUTAGAMI

March 6, 2002

Daigo Ezuka

8. \_\_\_\_\_  
Name:

\_\_\_\_\_

\_\_\_\_\_

9. \_\_\_\_\_  
Name:

\_\_\_\_\_

\_\_\_\_\_