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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):

Takumi Yamamoto  
Kazuhiko Futakami  
Akira Hatase  
Nobuaki Takahashi  
Naoji Senba  
Yuzo Shimada

1.25.01

Additional names(s) of conveying party(ies)

☐ Yes ☒ No

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

Name: Japan E M Co., Ltd.

Address: 348, Ohshima-cho, Hamamatsu-shi

City: Shizuoka

State/Prov.: 109/758837

Country: Japan

ZIP: 431-3112

Additional name(s) & address(es)

☒ Yes ☐ No

3. Nature of conveyance:

☒ Assignment

☐ Merger

☐ Security Agreement

☐ Change of Name

☐ Other

Execution Date: January 11, 2001

4. Application number(s) or registration numbers(s):

If this document is being filed together with a new application, the execution date of the application is: January 11, 2001

Patent Application No.

Filing date

B. Patent No.(s)

09/764837

Additional numbers

☐ Yes ☒ No

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

Name: Dana L. Tangren

Registration No. 37,246

Address: Workman, Nydegger & Seeley

1000 Eagle Gate Tower

60 East South Temple

City: Salt Lake City State/Prov.: Utah

Country: USA ZIP: 84111

6. Total number of applications and patents involved:

1

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

☒ Enclosed - Any excess or insufficiency should be credited or debited to deposit account

☐ Authorized to be charged to deposit account

8. Deposit account number:

23-3178

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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.

Dana L. Tangren

Name of Person Signing

Dana L. Tangren

Signature

January 24, 2001

Date

Total number of pages including cover sheet, attachments, and

5

PATENT

REEL: 011489 FRAME: 0413

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

NEC Corporation  
7-1, Shiba 5-chome  
Minato-ku, Tokyo 108-8001 JAPAN

**ASSIGNMENT  
OF APPLICATION FOR UNITED STATES LETTERS PATENT**

WHEREAS 1) Takumi YAMAMOTO, 2) Kazuhiko FUTAKAMI, 3) Akira HATASE, 4) Nobuaki TAKAHASHI, 5) Naoji SENBA and 6) Yuzo SHIMADA  
hereinafter (collectively) referred to as the assignor, has invented a certain improvement relating to METHOD AND APPARATUS FOR LINING UP MICRO-BALLS

for which said assignor has caused an application for United States Letters Patent to be prepared,

☒ the inventor declaration for said application being executed concurrently with the execution of this instrument; said application to be filed in the United States Patent and Trademark Office;

☐ said application having been filed in the United States Patent and Trademark Office on \_\_\_\_\_, Application Number [if known]

\_\_\_\_\_;  
☐ said application having been filed under the Patent Cooperation Treaty on \_\_\_\_\_, Application No. \_\_\_\_\_,  
the United States of America being designated.

AND WHEREAS 1) JAPAN · E · M CO., LTD., 348, Ohshima-cho, Hamamatsu-shi, Shizuoka 431-3112, Japan and 2) NEC CORPORATION, 7-1, Shiba 5-chome, Minato-ku, Tokyo 108-8001, Japan, hereinafter referred to as the assignees, are desirous of acquiring the entire right, title and interest in and to said application, including any and all divisions and continuations thereof, and in and to said invention and any and all patents which may be granted therefor, including, any and all renewals, reissues and prolongations thereof;

NOW THIS WITNESSETH, that for and in consideration of One Dollar (\$1.00), and other good and valuable consideration paid by said assignees to said assignor, the receipt of which is hereby acknowledged, said assignor hereby assigns, sells and transfers to said assignees, and said assignees' successors and assigns, the entire and exclusive right, title and interest in and to said application, including any and all divisions and continuations thereof, and in and to said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof; said assignees, and said assignees' successors and assigns, to have, hold exercise and enjoy the said application, including any all divisions and continuations thereof, and the said invention and any all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof, with all the rights, powers, privileges and advantages in anywise arising from or appertaining thereto, for and during the term or terms of any and all such patents when granted, including any and all renewals, reissues and prolongations thereof, for the use and benefit of said assignees, and said assignees' successors and assigns, in as ample and beneficial a manner as the said assignor might or could have held and enjoyed the same, if this assignment had not been made.

AND said assignor hereby agrees to perform, upon the request of said assignees, or said assignees' successors or assigns, any and all acts relating to the obtaining or to the asserting of said patents, including any and all renewals, reissues and prolongations thereof.

AND said assignor authorizes and requests the Commissioner of Patents and Trademarks to issue Letters Patent on said application, and on any and all divisions and continuations thereof, to said assignees, and said assignees' successors and assigns, in accordance herewith.

EXECUTED, this 11th day of January, 2001.

WITNESSES:

ASSIGNOR:

Signature: Tatsuo Shinma  
Name: Tatsuo Shinma  
Address: % 348 Ohshima-cho,  
Hamamatsu-shi, Shizuoka 431-3112  
Japan

Signature: Takumi Yamamoto  
Name: Takumi YAMAMOTO

EXECUTED, this 11th day of January, 2001.

WITNESSES:

ASSIGNOR:

Signature: Tatsuo Shinma  
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Address: % 348 Ohshima-cho,  
Hamamatsu-shi, Shizuoka 431-3112  
Japan

Signature: Kazuhiko Futakami  
Name: Kazuhiko FUTAKAMI

EXECUTED, this 11th day of January, 2001.

WITNESSES:

ASSIGNOR:

Signature: Tatsuo Shinma  
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Address: % 348 Ohshima-cho,  
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Japan

Signature: Akira Hatase  
Name: Akira HATASE

EXECUTED, this 10th day of January, 2001.

WITNESSES:

ASSIGNOR:

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Name: Fumitake WATANABE  
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7-1, Shiba 5-chome, Minato-ku,  
Tokyo 108-8001, Japan

Signature: Nobuaki Takahashi  
Name: Nobuaki TAKAHASHI

EXECUTED, this 10th day of January, 2001.

WITNESSES:

ASSIGNOR:

Signature: Fumitake Watanabe  
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Signature: Naoji Senba  
Name: Naoji SENBA

EXECUTED, this 10th day of January, 2001.

WITNESSES:

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Signature: Yuzo Shimada  
Name: Yuzo SHIMADA