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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):

MOTONAO NAKAO

 Additional names of conveying parties attached: ☐ Yes ☒ No

2. Name and Address of Receiving Party(ies):

Name: **Hitachi Software Engineering Co., Ltd.**
 Address: 1-43, Suehiro-cho, 1-chome, Tsurumi-ku
 City: Yokohama-shi, Kanagawa Japan 230-0045

3. Nature of Conveyance:

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

Execution Date: **December 17, 2003**

4. (a) Patent Application Number(s):

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

☐ Additional Numbers Attached.

4. (b) Patent Numbers:

5. Name and Address of Party to whom Correspondence Concerning this Document Should be Mailed:

Name: **Stanley P. Fisher**

Address: **Reed Smith LLP**
 3110 Fairview Park Dr.
 Suite 1400
 Falls Church, VA 22042

6. Total Number of Applications and Patents Involved: 1

7. Total Fee: **\$40.00**
 (37 C.F.R. § 3.41)

- ☒ Enclosed.
☒ Authorized to be charged to deposit account.

8. Deposit Account Number: **08-1480**

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9. Statement and Signature:

To the best of my knowledge and belief, the foregoing is true and correct and any attached copy is a true copy of the original document.

Stanley P. Fisher, Registration No. 24, 344

 January 14, 2004
 Juan Carlos A. Marquez, Registration No. 34,072

Total number of pages comprising cover sheet: 1

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40.00 DP

Attorney's Docket No.: _____

Assignment of Application

WHEREAS, I (WE) _____

Motonao NAKAO of c/o Hitachi Software Engineering Co., Ltd.,
4-12-7, Higashishinagawa, Shinagawa-ku, Tokyo 140-0002 Japan

_____, respectively,
 have invented certain new and useful improvements in: FUNCTIONAL BEADS,
METHOD FOR READING THE SAME AND BEAD-READING APPARATUS

for which an application for Letters Patent was executed on December 17, 2003
 (Application No. _____, filed _____), and

WHEREAS, HITACHI SOFTWARE ENGINEERING CO., LTD.
 (hereinafter referred to as "ASSIGNEE") having a place of business at: 1-43,
Suehiro-cho 1-chome, Tsurumi-ku, Yokohama-shi, Kanagawa 230-0045 Japan
 is desirous of acquiring the entire right, title and interest in and to said invention
 and in and to any Letters Patent that may be granted therefore in the United
 States and its territorial possessions and in any and all foreign countries;

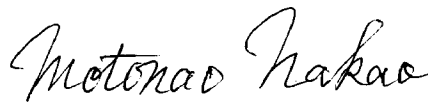
NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00),
 the receipt whereof is hereby acknowledged, and for other good and valuable
 consideration, I (WE), by these presents do sell, assign and transfer unto said
 ASSIGNEE, the full and exclusive right to the said invention in the United
 States and its territorial possessions and in all foreign countries and the entire
 right, title and interest in and to any and all Letters Patent which may be
 granted therefor in the United States and its territorial possessions and in any
 and all foreign countries and in and to any and all divisions, reissues,
 continuations, substitutions and renewals thereof.

I (WE) hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any official of any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my (our) entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its (his) successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me (us) had this Assignment and sale not been made.

Further, I (WE) agree that I (WE) will communicate to said ASSIGNEE or its legal representatives and assigns covenant and any facts known to me (us) respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letter Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.

The undersigned hereby grant(s) the firm of Reed Smith LLP of 3110 Fairview Park Drive, Suite 1400, Falls Church, Virginia 22042-4503 U.S.A. the power to insert on this assignment any further identification, including the application number and filing date, which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

Date: December 17, 2003



(Signature of inventor) Motonao NAKAO