

12-04-2003

Attorney Docket No. 056203.52940US

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office



102614690

To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Toshio MANAKA

11-25-03

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

☐ Yes

☒ No

2. Name and address of receiving party(ies)

Name: Hitachi, Ltd.

Street Address: 6, Kanda Surugadai 4-chome
Chiyoda-ku, Tokyo, Japan

Additional name(s) & address(es) attached?

☐ Yes

☒ No

3. Nature of Conveyance:

☒ Assignment

☐ Merger

☐ Security Agreement

☐ Change of Name

☐ Other:

Execution Date: October 10, 2003

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

10720481

If this document is being filed together with a new application, the execution date of the application is: October 10, 2003

A. Patent Application No.(s)

B. Patent No(s).

Additional numbers attached?

☐ Yes

☒ No

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

CROWELL & MORING, L.L.P.
Intellectual Property Group
P.O. Box 14300
Washington, D.C. 20044-4300

6. Total number of applications and patents involved: /

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

☒ Enclosed. Please charge any underpayment in connection with this Assignment to Deposit Account No. 05-1323

☐ Authorized to be charged to Deposit Account

8. Deposit Account No.

(Attach dupl. copy of this page if paying by Deposit Account)

DO NOT WRITE IN THIS SPACE

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.

Song Zhu, Ph.D.

Reg. No. 44,420

November 25, 2003

Date

TOTAL NUMBER OF PAGES INCLUDING COVER SHEET, ATTACHMENTS, AND DOCUMENT: 2

DO NOT USE THIS SPACE

Do not detach this portion

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

Commissioner of Patents and Trademarks
Mail Stop Assignment Recordation Services
P. O. Box 1450
Alexandria, VA 22313-1450

/tlm

12/03/2003 6TOM11 00000135 10720481

01 FC:8021

40.00 DP

PATENT
REEL: 014745 FRAME: 0443

ASSIGNMENT

(譲 渡 証)

As a below named inventor, I hereby declare that:

IN CONSIDERATION of the sum of One Dollar (\$1.00) or the equivalent thereof, and other good and valuable consideration paid to me citizen of Japan by HITACHI, LTD., a corporation organized under the laws of Japan, located at 6, Kanda Surugadai 4-chome, Chiyoda-ku, Tokyo, Japan, receipt of which is hereby acknowledged I do hereby sell and assign to said HITACHI, LTD., its successors and assigns, all my right, title and interest, in and for the United States of America, in and to

ELECTRO MECHANICAL BRAKE, CONTROL DEVICE AND CONTROL METHODS

invented by me (if only one is named below) or us (if plural inventors are named below) and described in the application for United States Letters Patent therefor, executed on even date herewith, and all United States Letters Patent which may be granted therefor, and all divisions, continuations and extensions thereof, the said interest being the entire ownership of the said Letters Patent when granted, to be held and enjoyed by said HITACHI, LTD., its successors, assigns or other legal representatives, to the full end of term for which said Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by me or us if this assignment and sale had not been made;

And I hereby agree to sign and execute any further documents or instruments which may be necessary, lawful, and proper in the prosecution of the above-named application or in the preparation and prosecution of any continuing, continuation-in-part, substitute, divisional, renewal, reviewed or reissue applications or in any amendment, extension, or interference proceedings, or otherwise to secure the title thereto in said assignee;

And I do hereby authorize and request the Commissioner of Patents to issue said Letters Patent to said HITACHI, LTD.

Signed on the date(s) indicated aside signatures:

INVENTOR(S)

(発明者フルネームサイン)

Date Signed

(署名日)

1)

Toshio Manaka
Toshio MANAKA

10/10/2003

2)

3)

4)

5)

6)

7)

8)

9)

10)