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2. Name and address of receiving party(ies) Name: Canon Kabushiki Kaisha Internal Address: Street Address: 3-30-2, Shimomaruko, Ohta-ku City: Tokyo State: Zip: Additional name(s) & address(es) attached? [ ] Yes [x] No

22387 U.S. PTO 10752635

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3. Nature of conveyance: [x] Assignment [ ] Merger [ ] Security Agreement [ ] Change of Name [ ] Other Execution Date: 12/24/03

4. Application number(s) or patent number(s): 10752635 If this document is being filed together with a new application, the execution date of the application is: 1/6/04 A. Patent Application No.(s) B. Patent No.(s) Additional numbers attached? [ ] Yes [x] No

6. Total number of applications and patents involved: 1 7. Total fee (37 CFR 3.41).....\$ 40.00 [ ] Enclosed [x] Authorized to be charged to deposit account

5. Name and address of party to whom correspondence concerning document should be mailed: Name: Canon U.S. A., Inc. IP Department Internal Address: Street Address: 15975 Alton Parkway City: Irvine State: CA Zip: 92618-3731

8. Deposit account number: 502456

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Signature

1/6/04 Date

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PATENT REEL: 014882 FRAME: 0829

**JOINT**  
(BEFORE APPLICATION FILED)

**ASSIGNMENT OF PATENT RIGHTS FOR THE UNITED STATES**

FOR VALUE RECEIVED, WE, **Kato Shigeki and Hidejiro Kadowaki**

hereby sell, assign, transfer and convey unto **CANON KABUSHIKI KAISHA**

a corporation of **Japan**

having a place of business at

**3-30-2, Shimomaruko, Ohta-ku, Tokyo, Japan**

its successors, assigns and legal representatives (hereinafter called the "Assignee"), the entire right, title and interest, for the United States, in and to certain inventions relating to

**MOVEMENT-DIRECTION DETERMINATION APPARATUS**

and described in an application for Letters Patent of the United States executed by each of us, respectively, on the date indicated below and in and to said application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted, thereon, and all reissues and extensions thereof; and we hereby authorize and request the Commissioner for Patents and Trademarks of the United States to issue all Letters Patent upon said inventions to the Assignee or to such nominees as it may designate.

AND we authorize and empower the said Assignee or nominees to invoke and claim for any application for patent or other form of protection for said inventions, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it, and to invoke and claim such right of priority without further written or oral authorization from us.

AND we hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in the United States for any purpose and more particularly in proof of the right of said Assignee or nominees to claim the aforesaid benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it.

AND we hereby covenant that we have the full right to convey the entire right, title and interest herein assigned and that we have not executed and will not execute any agreement in conflict herewith.

AND we hereby covenant and agree that we will communicate to said Assignee or nominees all facts known to us pertaining to said inventions, and testify in all legal proceedings, sign all lawful papers, execute all continuing and reissue applications, make all rightful oaths and declarations and in general perform all lawful acts necessary or proper to aid said Assignee or nominees in obtaining, maintaining and enforcing all lawful patent protection for said inventions in the United States.

By: Kato Shigeki  
Kato Shigeki

Date: December 24, 2003

By: Hidejiro Kadowaki  
Hidejiro Kadowaki

Date: December 24, 2003

By: \_\_\_\_\_

Date: \_\_\_\_\_

By: \_\_\_\_\_

Date: \_\_\_\_\_

By: \_\_\_\_\_

Date: \_\_\_\_\_

By: \_\_\_\_\_

Date: \_\_\_\_\_