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Please record the attached original documents or copies thereof.

1. Name of conveying party(ies): **Hidenori TAKESHIMA; Takashi IDA; Toshimitsu KANEKO; and Nobuyuki MATSUMOTO**

2. Name and address of receiving party(ies):  
**KABUSHIKI KAISHA TOSHIBA  
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Minato-ku, Tokyo 105-8001, JAPAN**

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3. Nature of conveyance:  
XXXX Assignment \_\_\_\_\_ Merger  
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\_\_\_\_\_ Other: \_\_\_\_\_

Execution Date: **October 22, 2007**

4. Application number(s) or application date(s):  
If this document is being filed together with a new application, the execution date of the application is:

A. Application/Patent No. **11/869,849**      B. Application/Issue Date **October 10, 2007**

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

Charles N.J. Ruggiero, Esq.  
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6. Total No. of applications and patents involved: 1.

7. Total Fee (37 C.F.R. 3.41(h)) \$40.00/assignment.  
XXXX **CUSTOMER NO.: 27623**  
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The Commissioner is hereby authorized to charge any additional fees under 37 C.F.R. 3.41 that may be required with this communication or credit any overpayment, to Deposit Account No. **01-0467**. A duplicate copy of this Form is enclosed.

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.

Charles N.J. Ruggiero  
Name of Person Signing

*[Signature]*  
Signature      12/6/07  
Date

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

In consideration of value received, I, having a residence as stated below above my name, the sole inventor (if only one name is listed below) or a joint inventor (if plural inventors are listed below) of an invention described in an application for United States patent entitled:

**SCROLL POSITION ESTIMATION APPARATUS AND METHOD**

have sold and assigned and do hereby sell and assign to  
KABUSHIKI KAISHA TOSHIBA  
a Japanese corporation, having a business address at  
1-1, Shibaura 1-chome, Minato-ku, Tokyo 105-8001, Japan

its successors, assigns or nominees, hereinafter referred to as "Assignee", my entire right, title and interest in and to said invention as disclosed, shown and described in said United States patent application:

(check one)  executed concurrently herewith  
 executed on \_\_\_\_\_ ;  
 Application No. 11/869,849 , filed October 10, 2007 ;

and in and to all applications for patent and patents for invention including all divisions, reissues, continuations, substitutes and extensions thereof and all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property, including rights of priority, resulting from the filing of any of said applications; and I authorize and request any official whose duty is to issue patents, to issue any patent on said invention or resulting therefrom to said Assignee, and I agree that on request and without further consideration, but at the expense of said Assignee, I will communicate to said Assignee or its representatives all facts known to me respecting said invention and testify in any legal proceedings, sign all lawful papers, execute all divisional, continuing, continued prosecution, reissue, or other applications, make all rightful oaths and declarations, and generally do everything possible to aid said Assignee to obtain and enforce proper patent protection for said invention.

I hereby grant the following law firm the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the Rules of the U.S. Patent and Trademark Office for recordation of this document.

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ASSIGNMENT

13G045011-USA-A  
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