

11/26/03



12-02-2003

Attorney Docket No. 021612



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Submission type: XX Corrective Document

Document ID # 102384476A

Reel# 013811 Frame# 0212

Conveyance type: XX Assignment

Conveying Party(ies):	(Last, First, Middle Initial)	Execution Date
First party	Name: MICHIOKA, Hidekazu	October 2, 2003
Second party	Name: ABE, Yasuyuki	October 2, 2003
Third party	Name: NIWA, Hiroshi	October 2, 2003
Fourth party	Name: IIDA, Katsuya	October 2, 2003
Fifth party	Name: KADONO, Toshiaki	October 2, 2003
Sixth party	Name: SHIRAI, Takeki	October 2, 2003
Seventh party	Name: SHOJI, Hironori	October 2, 2003

Additional name(s) of conveying party(ies) attached? Yes \_\_\_ No XX

Receiving Party (ies):

First party Name: **THK CO., LTD.**  
Address: **11-6, Nishi-gotanda 3-chome, Shinagawa-ku,  
Tokyo-to, 141-0031 Japan**

Additional name(s) & address(es) attached? Yes \_\_\_ No XX

Domestic Representative Name and Address (Enter for the first Receiving Party only)

WESTERMAN, HATTORI, DANIELS & ADRIAN, LLP  
1250 Connecticut Avenue, N.W., Suite 700  
Washington, D.C. 20036  
Customer No.: 38834

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12/01/2003 GT0N11 00000078 10309341  
01 FC:0021 40.00 DP

Correspondent Name and Address

Telephone: 202-822-1100

WESTERMAN, HATTORI, DANIELS & ADRIAN, LLP  
1250 Connecticut Avenue, N.W., Suite 700  
Washington, D.C. 20036

Pages Enter the total number of pages of the attached conveyance document: 1  
(including any attachments, but not counting cover sheets)

Application Number(s) or Patent Number(s) Additional numbers attached? Yes \_\_\_ No XX

A. Patent Application No.(s)

B. Patent No.(s)

10/309,341

##

If this document is being filed together with a new application, enter the date the application was signed by the first named executing inventor: \_\_\_\_\_

(Do not recite both application and patent numbers.)

Patent Cooperation Treaty (PCT)

PCT \_\_\_\_\_

Enter PCT application number only if

PCT \_\_\_\_\_

a U.S. Application Number has not been assigned

PCT \_\_\_\_\_

Number of Properties Enter the total number of properties involved: 1

Fee Amount

Fee Amount for Properties Listed (37 CFR 3.41). . . . . \$40.00

XX Enclosed

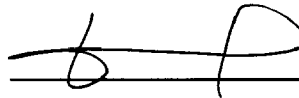
\_\_\_ Authorized to be charged to Deposit Account No.: 50-2866

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.

Ken-Ichi Hattori

Name of Person Signing



Signature

November 26, 2003

Date

32,861

Registration No.

MAR 04 2003  
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03-10-2003

Attorney Docket No. 021612

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102384476

Commissioner for Patents: Please record the attached original documents or copy thereof.

Submission type:  New  
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Document ID #: \_\_\_\_\_  
 Correction of PTO Error  
Reel # \_\_\_\_\_ Frame # \_\_\_\_\_  
 Corrective Document  
Reel # \_\_\_\_\_ Frame # \_\_\_\_\_

3.403

Conveyance type:  Assignment  Security Agreement  
 License  Change of name  
 Merger  Other \_\_\_\_\_

Conveying Party (ies): (Last, First, Middle Initial) Execution Date

First party Name: MICHIOKA, Hidekazu December 26, 2002  
Second party Name: ABE, Yasuyuki December 26, 2002  
Third party Name: NIWA, Hiroshi December 26, 2002  
Fourth party Name: IIDA, Katsuya *in correct* December 26, 2002  
Fifth party Name: ~~KAKUNO~~, Toshiaki *This should read* December 26, 2002  
Sixth party Name: SHIRAI, Takeki *-- KADONO --* December 26, 2002  
Seventh party Name: SHOJI, Hironori December 26, 2002

Additional name(s) of conveying party(ies) attached? Yes \_\_\_ No

Receiving Party (ies):

First party Name: THK CO., LTD.  
Address: 11-6, Nishi-gotanda 3-chome, Shinagawa-ku, Tokyo-to,  
141-0031 Japan

10309341

Second party Name:

Address:

**COPY**

Additional name(s) & address(es) attached? Yes \_\_\_ No

Domestic Representative Name and Address



Armstrong, Westerman & Hattori, LLP  
Suite 1000, 1725 K Street  
Washington, D.C. 20006  
(202) 659-2930

23850

PATENT TRADEMARK OFFICE

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03/07/2003 DRYNE 00000109 10309341

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Correspondent Name and Address

Telephone: 202-659-2930

ARMSTRONG, WESTERMAN & HATTORI, LLP  
1725 K Street, N.W., Suite 1000  
Washington, D.C. 20006

Pages Enter the total number of pages of the attached conveyance document: 2  
(including any attachments, but not counting cover sheets)

Application Number(s) or Patent Number(s) Additional numbers attached? Yes  No

A. Patent Application No.(s) B. Patent No.(s)

10/309,341

If this document is being filed together with a new application, enter the date the application was signed by the first named executing inventor: \_\_\_\_\_

(Do not recite both application and patent numbers.)

Patent Cooperation Treaty (PCT)

PCT \_\_\_\_\_

Enter PCT application number only if

PCT \_\_\_\_\_

a U.S. Application Number has not been assigned

PCT \_\_\_\_\_

Number of Properties Enter the total number of properties involved: 1

Fee Amount Fee Amount for Properties Listed (37 CFR 3.41). . . . . \$40.00

Enclosed

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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.

Ken-Ichi Hattori

Name of Person Signing



Signature

March 4, 2003

Date

32,861

Registration No.

Docket No. 021612

Westerman, Hattori, Daniels & Adrian, LLP

# DECLARATION FOR U.S. PATENT APPLICATION

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

# COPY

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

CIRCULATION MEMBER OF BALL SCREW AND BALL SCREW USING SAME

the specification of which is attached hereto unless the following is checked

was filed on December 4, 2002 as United States Application Number or PCT International Application Number 10/309,341 and was amended on \_\_\_\_\_ (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claim(s), as amended by any amendment referred above.

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, § 119 (a) – (d) of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application for which priority is claimed.

(List prior foreign applications. See note A)

2001-372047  
(Number)

Japan  
(Country)

5/December/2001  
(Day/Month/Year Filed)

### Priority Claimed

Yes  No

2002-324425  
(Number)

Japan  
(Country)

7/November/2002  
(Day/Month/Year Filed)

Yes  No

\_\_\_\_\_  
(Number)

\_\_\_\_\_  
(Country)

\_\_\_\_\_  
(Day/Month/Year Filed)

Yes  No

\_\_\_\_\_  
(Number)

\_\_\_\_\_  
(Country)

\_\_\_\_\_  
(Day/Month/Year Filed)

Yes  No

(See note B)  See attached list for additional prior foreign applications

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

(List prior U.S. Applications)

\_\_\_\_\_  
(Application Serial No.)

\_\_\_\_\_  
(Filing Date)

### Status

Patented  Pending  Abandoned

\_\_\_\_\_  
(Application Serial No.)

\_\_\_\_\_  
(Filing Date)

Patented  Pending  Abandoned

\_\_\_\_\_  
(Application Serial No.)

\_\_\_\_\_  
(Filing Date)

Patented  Pending  Abandoned

\_\_\_\_\_  
(Application Serial No.)

\_\_\_\_\_  
(Filing Date)

Patented  Pending  Abandoned

**U.S. ASSIGNMENT**

IN CONSIDERATION of the sum of One Dollar (\$1.00), and of other good and valuable consideration paid to the undersigned inventor(s) (hereinafter ASSIGNOR) by  
**THK CO., LTD.**

(Insert ASSIGNEE's  
Name(s) Address(es))

11-6, Nishi-gotanda 3-chome, Shinagawa-ku, Tokyo-to, 141-0031 Japan

(hereinafter ASSIGNEE), the receipt of which is hereby acknowledged, the undersigned  
ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title  
and interest to the invention entitled

(Title of Invention)

CIRCULATION MEMBER OF BALL SCREW AND BALL SCREW USING SAME

(\*If the assignment is  
being filed after the  
filing of the  
application, this  
section must be  
completed)

for which application for Letters Patent of the United States was executed on even date herewith  
unless otherwise indicated below:

\* filed on December 4, 2002 Serial No. 10/309,341.

(Westerman, Hattori, Daniels & Adrian, LLP is hereby authorized to insert the series code, serial  
number and/or filing date hereon, when known)

and all Letters Patent of the United States to be obtained therefore on said application or any  
continuation, divisional, substitute, reissue or reexamination thereof for the full term or terms for  
which the same may be granted.

The ASSIGNOR agrees to execute all papers necessary in connection with the application and any  
continuation, divisional, reissue or reexamination applications thereof and also to execute separate  
assignments in connection with such applications as the ASSIGNEE may deem necessary or  
expedient.

The ASSIGNOR agrees to execute all papers necessary in connection with any interference,  
litigation, or other legal proceeding which may be declared concerning this application or any  
continuation, divisional, reissue or reexamination thereof or Letters Patent or reissue patent issued  
thereon and to cooperate with the ASSIGNEE in every way possible in obtaining and producing  
evidence and proceeding with such interference, litigation, or other legal proceeding.

IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s).

(Signatures)

<u>Hidekazu Michioka</u> (Signature)	<u>Hidekazu MICHIOKA</u> (Type Name)	<u>October 2, 2003</u> (Date)
<u>Yasuyuki Abe</u> (Signature)	<u>Yasuyuki ABE</u> (Type Name)	<u>October 2, 2003</u> (Date)
<u>Hiroshi Niwa</u> (Signature)	<u>Hiroshi NIWA</u> (Type Name)	<u>October 2, 2003</u> (Date)
<u>Katsuya Iida</u> (Signature)	<u>Katsuya IIDA</u> (Type Name)	<u>October 2, 2003</u> (Date)
<u>Toshiaki Kadono</u> (Signature)	<u>Toshiaki KADONO</u> (Type Name)	<u>October 2, 2003</u> (Date)
<u>Takeki Shirai</u> (Signature)	<u>Takeki SHIRAI</u> (Type Name)	<u>October 2, 2003</u> (Date)
<u>Hironori Shoji</u> (Signature)	<u>Hironori SHOJI</u> (Type Name)	<u>October 2, 2003</u> (Date)

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

Westerman, Hattori, Daniels & Adrian, LLP, a firm composed of William F. Westerman (Reg. No. 29,988); Ken-Ichi Hattori (Reg. No. 32,861); Scott M. Daniels (Reg. No. 32,562); Stephen G. Adrian (Reg. No. 32,878); Thomas J. Macpeak (Reg. No. 19,292); John P. Kong (Reg. No. 40,054); Sadao Kinashi (Reg. No. 48,075); Nicolas E. Seckel (Reg. No. 44,373); Edward F. Kenehan, Jr. (Reg. No. 28,962); Thomas E. Brown (Reg. No. 44,450); Joseph L. Felber (Reg. No. 48,109); Kenneth H. Salen (Reg. No. 43,077); and Michael N. Lau (Reg. No. 39,479)

Please direct all communications to the following address:

Westerman, Hattori, Daniels & Adrian, LLP, P.O. Box 33275, Washington, D.C. 20033-3275

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Title 18 of the United States Code, § 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

(See note C)	Full name of sole or first inventor (given name, family name)	<b>Hidekazu MICHIOKA</b>
	Inventor's signature	Date <u>October 2, 2003</u>
	Residence	Citizenship <u>Japanese</u>
	Post Office Address	<u>c/o THK CO., LTD.</u>
		<u>11-6, Nishi-gotanda 3-chome, Shinagawa-ku, Tokyo-to, 141-0031 Japan</u>
<hr/>		
	Full name of second inventor (given name, family name)	<b>Yasuyuki ABE</b>
	Inventor's signature	Date <u>October 2, 2003</u>
	Residence	Citizenship <u>Japanese</u>
	Post Office Address	<u>c/o THK CO., LTD.</u>
		<u>11-6, Nishi-gotanda 3-chome, Shinagawa-ku, Tokyo-to, 141-0031 Japan</u>
<hr/>		
	Full name of third inventor (given name, family name)	<b>Hiroshi NIWA</b>
	Inventor's signature	Date <u>October 2, 2003</u>
	Residence	Citizenship <u>Japanese</u>
	Post Office Address	<u>c/o THK CO., LTD.</u>
		<u>11-6, Nishi-gotanda 3-chome, Shinagawa-ku, Tokyo-to, 141-0031 Japan</u>
<hr/>		
	Full name of fourth inventor (given name, family name)	<b>Katsuya IIDA</b>
	Inventor's signature	Date <u>October 2, 2003</u>
	Residence	Citizenship <u>Japanese</u>
	Post Office Address	<u>c/o THK CO., LTD.</u>
		<u>11-6, Nishi-gotanda 3-chome, Shinagawa-ku, Tokyo-to, 141-0031 Japan</u>
<hr/>		
	Full name of fifth inventor (given name, family name)	<b>Toshiaki KADONO</b>
	Inventor's signature	Date <u>October 2, 2003</u>
	Residence	Citizenship <u>Japanese</u>
	Post Office Address	<u>c/o THK CO., LTD.</u>
		<u>11-6, Nishi-gotanda 3-chome, Shinagawa-ku, Tokyo-to, 141-0031 Japan</u>
<hr/>		

Full name of sole or first inventor (given name, family name) Takeki SHIRAI  
 Inventor's signature *Takeki Shirai* Date October 2, 2003  
 Residence Shinagawa-ku, Tokyo-to, Japan Citizenship Japanese  
 Post Office Address c/o THK CO., LTD.  
11-6, Nishi-gotanda 3-chome, Shinagawa-ku, Tokyo-to, 141-0031 Japan

Full name of second inventor (given name, family name) Hironori SHOJI  
 Inventor's signature *Hironori Shoji* Date October 2, 2003  
 Residence Shinagawa-ku, Tokyo-to, Japan Citizenship Japanese  
 Post Office Address c/o THK CO., LTD.  
11-6, Nishi-gotanda 3-chome, Shinagawa-ku, Tokyo-to, 141-0031 Japan

Full name of third inventor (given name, family name) \_\_\_\_\_  
 Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_  
 Residence \_\_\_\_\_ Citizenship \_\_\_\_\_  
 Post Office Address \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_