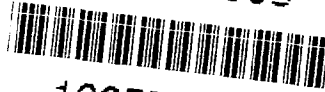


09-16-2003

Attorney Docket No. 031074



DEPARTMENT OF COMMERCE
Patent and Trademark Office

RECU

102551772
PATENTS ONLY

22396 U.S. PTO
10/658551
09/10/03

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

Submission type: XX New 9-16-03

Conveyance type: XX Assignment

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

First party Name: HIROTA, Hisatoshi August 7, 2003

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

Receiving Party (ies):

10658551

First party Name: TGK CO., LTD.

Address: 1211-4, Kunugida-cho, Hachioji-shi, Tokyo 193-0942 Japan

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

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

For Office Use Only

09/11/2003 FFAHAEIA 00000055 10658551

02 10:0021

40.00 DP

PATENT
REEL: 014480 FRAME: 0131

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: 1
(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)

If this document is being filed together with a new application, enter the date the application was signed by the first named executing inventor: August 7, 2003
(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
 Authorized to be charged to Deposit Account No.: 01-2340

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.

William G. Kratz, Jr.
Name of Person Signing


Signature

September 10, 2003
Date

22,631
Registration No.

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 **TGK CO., LTD.**

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

1211-4, Kunugida-cho, Hachioji-shi, Tokyo 193-0942 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)

SOLENOID VALVE-EQUIPPED EXPANSION VALVE

(*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 _____, Serial No. _____.

(Armstrong, Westerman & Hattori, 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)

Hisatoshi Nirotu
(Signature)

Hisatoshi HIROTA
(Type Name)

07 AUG. 2003
(Date)

(Signature)

(Type Name)

(Date)

(Signature)

(Type Name)

(Date)

(Signature)

(Type Name)

(Date)

(Signature)

(Type Name)

(Date)

(Signature)

(Type Name)

(Date)

NO LEGALIZATION REQUIRED