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Attorney Docket No. 3336.040301

FORM PTO-1595 U.S. DEPARTMENT OF COMMERCE
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1. Name of conveying party(ies):
HISATOSHI HIROTA, TOKUMI TSUGAWA,
KATSUMI KOYAMA

2. Name and address of receiving party(ies):
TGK CO., LTD.
1211-4, KUNUGIDA-CHO, HACHIOJI-SHI
TOKYO 193-0942 JAPAN

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

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

3. Nature of conveyance:

Assignment Merger

Other: Corrective Assignment to correct the Document Date for Assignor Katsumi Koyama to 01/23/2003 and under "Assignee" there should be a period between "CO" and the comma, previously recorded at Reel 014262, Frame 0800.

Execution Date(s): January 22, 2003, January 22, 2003, January 23, 2003

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

If this document is being filed together with a new non-provisional application, the execution date of the application is:

A. Patent Application No(s).
10/360,493

B. Patent No(s).

Additional numbers attached? Yes No

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

Customer No. 24113
James H. Patterson
Patterson, Thuent, Skaar & Christensen, P.A.
4800 IDS Center
80 South 8th Street
Minneapolis, Minnesota 55402-2100

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41): \$40.00
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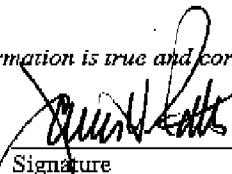
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To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

James H. Patterson
Name of Person Signing


Signature

04/02/04
Date

Total number of pages comprising cover sheet: 1

07-17-2003



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FORM COVER SHEET

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OMB No. 0651-0027 (exp. 6/30/2005)

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

1. Name of conveying party(ies):
Hisatoshi HIROTA
Tokumi TSUGAWA
Katsumi KOYAMA

7-15-03

2. Name and address of receiving party(ies)
Name: TGK Co., Ltd.

Internal Address:

Street Address: 1211-4, Kunugida-
Hachioji-shi

City: Tokyo 193-0942 JAPAN
State: XXXXX

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

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

3. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other

Execution Date: January 22, 2003

4. Application number(s) or patent number(s):
If this document is being filed together with a new application, the execution date of the application is:
A. Patent Application No.(s) 10/360,493

B. Patent No.(s)

Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:
Name: Julie A. Zavoral
Internal Address: Patterson, Thuente, Skaar
& Christensen, L.L.C.

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41) \$40.00*
*Sent initially 02/07/2003 with
 Enclosed "Assignment Transmittal";
our check no. 1060 (same date)
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Street Address: 2000 U.S. Bank Center
777 East Wisconsin Avenue
City: Milwaukee State: WI Zip: 53202-5345

8. Deposit account number:
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9. Signature.
Julie A. Zavoral
Name of Person Signing

Julie Zavoral
Signature

7/3/03
Date

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FINANCE SECTION

Attorney Docket No. WI038.32-US-01

ASSIGNMENT

WHEREAS, we, Hisatoshi HIROTA, Tokumi TSUGAWA and Katsumi KOYAMA of c/o TGK CO., LTD., 1211-4, Kunugida-cho, Hachioji-shi, Tokyo 193-0942 Japan, have invented certain new and useful improvements in FOUR-WAY SWITCHING VALVE, for which an application for Letters Patent of the United States is being/has been made, said application having been executed on even date herewith, and which may be identified in the United States Patent Office by Application No. 10/360,493, filed Feb. 7, 2003

WHEREAS, TGK CO., LTD., a corporation organized and existing under the laws of the State of Japan, and having its principal offices at 1211-4, Kunugida-cho, Hachioji-shi, Tokyo 193-0942 Japan, is desirous of acquiring the entire right, title and interest in and to said invention, said application and in, to and under any and all Letters Patent to be obtained therefor;

NOW, THEREFORE, for and in consideration of One Dollar (\$1.00) and other good and valuable consideration to us in hand paid by said Assignee, the receipt of which is hereby acknowledged, we have sold, assigned and transferred, and by these presents do hereby sell, assign and transfer unto the said Assignee, its successors and assigns, our entire right, title and interest in and to said invention, said provisional/utility application, all applications claiming priority to said provisional/utility application including all divisions, continuations or renewals thereof, and the Letters Patent, both foreign and domestic, that may or shall issue, therefrom including all reissues or extensions of such patents including all of our rights under the International Convention, and we do hereby authorize and request the Commissioner of Patents to issue said Letters Patent to the above mentioned Assignee in accordance herewith.

We hereby authorize the above mentioned Assignee, its successors and assigns, or anyone it may properly designate, to insert in this instrument the date of execution and/or filing date and application number of said application when ascertained.

We further authorize said Assignee, its successors and assigns, or anyone it may properly designate, to apply for Letters Patent, in its own name if desired, in any and all foreign countries, and additionally to claim the filing date of said United States application and/or otherwise take advantage of the provisions of the International Convention.

Upon said consideration we do hereby covenant and agree with the said Assignee, its successors and assigns, that we will not execute in writing or do any act whatsoever conflicting with these presents, and that we or our executors or administrators will at any time upon request, without further or additional consideration, but at the expense of the said Assignee, its successors and assigns, execute such additional writings and do such additional acts as said Assignee, its successors and assigns, may deem necessary or desirable to perfect the Assignee's enjoyment of this grant, and render all necessary assistance in making application for and obtaining original, divisional, reissued or extended Letters Patent of the United States, or of any and all foreign countries on said invention, and in enforcing any rights occurring as a result of such applications

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or patents, by giving testimony in any proceedings or transactions involving such applications or patents.

IN WITNESS WHEREOF, we have hereunto set our hands and affixed our seal as dated below.

Date: Jan. 22, 2003

Hisatoshi Hirota
Hisatoshi HIROTA

Date: JAN 22, 2003

TOKUMI TSUGAWA
Tokumi TSUGAWA

Date: JAN. 22, 2003

KATSUMI KOYAMA
Katsumi KOYAMA