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U.S. DEPARTMENT OF COMMERCE
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102442412

To the Honorable Commissioner of Patents and Trademarks, U.S. Department of Commerce, Patent and Trademark Office, Washington, D.C. 20231. This document is the original document or copy thereof.

1. Name of conveying party(ies):

Hisatoshi HIROTA

Katsumi KOYAMA

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

3. Nature of conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ Other _____Execution Date: April 14, 2003

2. Name and address of receiving party(ies):

Name: TGK CO., LTD.Internal Address: a Japanese CorporationStreet Address: 1211-4, Kunugida-cho, Hachioji-shiTokyo 193-0942 JAPAN

City: _____ State: _____ ZIP: _____

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

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)

10/357,891 (02/04/2003)

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. ZavoralInternal Address: Patterson, Thunte, Skaar & Christensen, LLC2000 U.S. Bank CenterStreet Address: 777 East Wisconsin AvenueCity: Milwaukee State: WI ZIP: 532026. Total number of applications and patents involved: 17. Total fee (37 CFR 3.41) \$ 40.00☒ Enclosed☐ Authorized to be charged to deposit account

8. Deposit account number:

Please charge additional fees or credit overpayment to #50-2522.

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9. 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.*Julie A. Zavoral

Name of Person Signing

Julie Zavoral

Signature

4/28/03

Date

Total number of pages including cover sheet, attachments, and document: 3

05/07/2003 ECOOPER 00000083 10357891

Mail documents to be recorded with required cover sheet information to:
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Washington, D.C. 20231

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(Form PTO-1595-Recordation Form Cover Sheet - page 1 of 3)

PATENT
REEL: 014030 FRAME: 0721

ASSIGNMENT

WHEREAS, we, Hisatoshi HIROTA, Katsumi KOYAMA, have invented certain new and useful improvements in FOUR-WAY SWITCHING VALVE, for which an application for Letters Patent of the United States has been made, said application having been executed on April 14, 2003, and which may be identified in the United States Patent Office by Application No. 10/357,891, filed February 4, 2003.

WHEREAS, TGK CO., LTD. ("Assignee"), a corporation organized and existing under the laws 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 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.

H.H

Date: ~~7th~~ apr .14. 2003

Hisatoshi Hirota

Hisatoshi HIROTA

Date: Apr .14. 2003

Katsumi Koyama

Katsumi KOYAMA