

## PATENT ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT														
NATURE OF CONVEYANCE:	ASSIGNMENT														
CONVEYING PARTY DATA															
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Takumi HORI</td> <td>09/24/2012</td> </tr> <tr> <td>Hiroshi FUNAKOSHI</td> <td>09/24/2012</td> </tr> <tr> <td>Manabu MAEDA</td> <td>09/24/2012</td> </tr> <tr> <td>Hidekazu UEHARA</td> <td>09/24/2012</td> </tr> <tr> <td>Kazuhiko YAMASHITA</td> <td>09/24/2012</td> </tr> <tr> <td>Zenichi YOSHIDA</td> <td>09/24/2012</td> </tr> </tbody> </table>		Name	Execution Date	Takumi HORI	09/24/2012	Hiroshi FUNAKOSHI	09/24/2012	Manabu MAEDA	09/24/2012	Hidekazu UEHARA	09/24/2012	Kazuhiko YAMASHITA	09/24/2012	Zenichi YOSHIDA	09/24/2012
Name	Execution Date														
Takumi HORI	09/24/2012														
Hiroshi FUNAKOSHI	09/24/2012														
Manabu MAEDA	09/24/2012														
Hidekazu UEHARA	09/24/2012														
Kazuhiko YAMASHITA	09/24/2012														
Zenichi YOSHIDA	09/24/2012														
RECEIVING PARTY DATA															
<table border="1"> <tr> <td>Name:</td> <td>mitsubishi heavy industries, ltd.</td> </tr> <tr> <td>Street Address:</td> <td>16-5, Konan 2-chome, Minato-ku,</td> </tr> <tr> <td>City:</td> <td>Tokyo</td> </tr> <tr> <td>State/Country:</td> <td>JAPAN</td> </tr> <tr> <td>Postal Code:</td> <td>108-8215</td> </tr> </table>		Name:	mitsubishi heavy industries, ltd.	Street Address:	16-5, Konan 2-chome, Minato-ku,	City:	Tokyo	State/Country:	JAPAN	Postal Code:	108-8215				
Name:	mitsubishi heavy industries, ltd.														
Street Address:	16-5, Konan 2-chome, Minato-ku,														
City:	Tokyo														
State/Country:	JAPAN														
Postal Code:	108-8215														
PROPERTY NUMBERS Total: 1															
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13638950</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13638950										
Property Type	Number														
Application Number:	13638950														
CORRESPONDENCE DATA															
Fax Number:	2027218250														
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>															
Phone:	202-721-8200														
Email:	wlp@wenderoth.com														
Correspondent Name:	Wenderoth, Lind & Ponack, L.L.P.														
Address Line 1:	1030 15th Street NW														
Address Line 2:	Suite 400 East														
Address Line 4:	Washington, DISTRICT OF COLUMBIA 20005														
ATTORNEY DOCKET NUMBER:	2012_5159A														

OP \$40.00 13638950

NAME OF SUBMITTER:

Janae Johnson

Total Attachments: 2

source=ASSIGNMENT#page1.tif

source=ASSIGNMENT#page2.tif

2010-544-003  
7 1/2  
OSP-42436  
US

## ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned

Insert Name(s)  
of Inventor(s)

(1) Takumi HORI; (2) Hiroshi FUNAKOSHI; (3) Manabu MAEDA; (4) Hidekazu UEHARA; (5) Kazuhiko YAMASHITA; and (6) Zenichi YOSHIDA  
the undersigned hereby sell(s) and assign(s) to

Insert Name(s)  
of Assignee(s)  
Address

MITSUBISHI HEAVY INDUSTRIES, LTD.  
of 16-5, Konan 2-chome, Minato-ku, Tokyo 108-8215 Japan  
(hereinafter designated as the Assignee) the entire right, title and interest for the United States as defined in 35 USC 100, in the invention known as

### DRY GAS SEAL STRUCTURE

Title of  
Invention

for which an application for patent in the United States has been executed by the undersigned

Date of  
Signing  
of Application

on \_\_\_\_\_

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division or reissue thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.

The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.

The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patents of the United States resulting from said application or any division or divisions or continuing or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the firm of WENDEROTH, LIND & PONACK, L.L.P., 2033 K Street, N.W., Suite 800, Washington, D.C. 20006-1021, 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 United States Patent Office for recordation of this document.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date September 24, 2012, Name of the Inventor Takumi HORI *Takumi Horii*

Date September 24, 2012, Name of the Inventor Hiroshi FUNAKOSHI *Hiroshi Funakoshi*

Date September 24, 2012, Name of the Inventor Manabu MAEDA *Manabu Maeda*

Date September 24, 2012, Name of the Inventor Hidekazu UEHARA *Hidekazu Uehara*

Date September 24, 2012, Name of the Inventor Kazuhiko YAMASHITA *Kazuhiko Yamashita*

Date September 24, 2012, Name of the Inventor Zenichi YOSHIDA *Zenichi Yoshida*

Date \_\_\_\_\_, Name of the Inventor \_\_\_\_\_

(This assignment should preferably be acknowledged before a United States Consul. If not, then the execution by the Inventor(s) should be witnessed by at least two witnesses who sign here.)

Witness \_\_\_\_\_

Witness \_\_\_\_\_

### ACKNOWLEDGMENT

\_\_\_\_\_  
\_\_\_\_\_ } ss

This \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, before me personally came the above-named me personally known as the individual(s) who executed the foregoing assignment, who did acknowledge to me that he (they) executed the same of his (their) own free will for the purposes therein set forth.

\_\_\_\_\_  
Official Signature

SEAL

\_\_\_\_\_  
Official Title

The above application may be more particularly identified as follows:

U.S. Application Serial No. \_\_\_\_\_ Filing Date \_\_\_\_\_

Applicant Reference Number \_\_\_\_\_ Atty Docket No. \_\_\_\_\_

Title of Invention \_\_\_\_\_