

**PATENT ASSIGNMENT**

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| <b>SUBMISSION TYPE:</b>  | NEW ASSIGNMENT                                 |
| <b>NATURE OF CONVEYANCE:</b>   | ASSIGNMENT                                     |
| <b>CONVEYING PARTY DATA</b>  |  |
| <b>Name</b>  | <b>Execution Date</b>                          |
| Kazuhiko Katsumata   | 10/17/2005                                     |
| <b>RECEIVING PARTY DATA</b>  |  |
| <b>Name:</b>   | Ishikawajima-Harima Heavy Industries Co., Ltd. |
| <b>Street Address:</b>   | 2-1, Ohtemachi 2-chome                         |
| <b>City:</b>   | Chiyoda-ku, Tokyo                              |
| <b>State/Country:</b>  | JAPAN  |
| <b>Postal Code:</b>  | 100-8182                                       |
| <b>PROPERTY NUMBERS Total: 1</b>   |  |
| <b>Property Type</b>   | <b>Number</b>                                  |
| Application Number:  | 10562498                                       |
| <b>CORRESPONDENCE DATA</b>   |  |
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| <b>ATTORNEY DOCKET NUMBER:</b>   | ASAIN0173                                      |
| <b>NAME OF SUBMITTER:</b>  | Bridget D. Burke                               |
| <b>Total Attachments: 1</b><br>source=06-07-12 Assignment via EPAS#page1.tif         |  |

OP \$40.00 10562498

ASSIGNMENT

A7000US

The undersigned (hereinafter collectively referred to as "ASSIGNOR"), in consideration of the sum of Ten Dollars (\$10.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, hereby sells, assigns and transfers to

Ishikawajima-Harima Heavy Industries Co., Ltd.

(Name of Assignee)

(hereinafter referred to as "ASSIGNEE"), residing at

(insert address or principle place of business)

2-1, Ohtemachi 2-Chome, Chiyoda-ku, Tokyo100-8182, JAPAN

the entire right, title and interest for the United States of America as defined in 35 U.S.C. §100, in the invention (hereinafter "INVENTION") entitled:

GAS COOLING TYPE VACUUM HEAT TREATING FURNACE AND

(Type in Title of Invention)

COOLING GAS DIRECTION SWITCHING DEVICE THEREFOR

for which Assignor has executed an application for United States Patent

[ ] on this date (check if assignment and application are executed on same date)

[X] on [ March 31, 2004 ] (check if Assignment is executed after application)

Month/Day/Year

[ ] filed on [ ]

Month/Day/Year

as PCT International Application No. [ PCT/JP2004/004643 ]

(insert if known)

(check if Assignment is executed after filing of Application.)

and all applications on the INVENTION, including any and all divisions, continuations, substitutes and reissues thereof, and all resulting patents on the INVENTION;

ASSIGNOR hereby agrees to testify and to execute any papers for ASSIGNEE, its successors, assigns and legal representatives, deemed essential by ASSIGNEE to ASSIGNEE'S full protection of and title in and to the INVENTION hereby transferred; and

ASSIGNOR hereby authorizes Joerg-Uwe Szipl and Griffin, Butler, Whisenhunt & Kurtossy to insert in this ASSIGNMENT any further information necessary or desirable for recordation.

| Full Name of the Inventor(s)<br>(Please type) | Signature                 | Date Signed      | Witness(es)     |
|---|---------------------------|------------------|-----------------|
| (1) Kazuhiko KATSUMATA                        | <i>Kazuhiko Katsumata</i> | October 17, 2005 | <i>M. Hotta</i> |
| (2)   |                           |                  |                 |
| (3)   |                           |                  |                 |
| (4)   |                           |                  |                 |
| (5)   |                           |                  |                 |
| (6)   |                           |                  |                 |
| (7)   |                           |                  |                 |
| (8)   |                           |                  |                 |

[ ] Check if additional pages are attached.

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