


09-16-2005



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To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

<b>1. Name of conveying party(ies):</b> Kimihiko MITSUDA (08/24/2005), Yasuharu YAMAMOTO (08/24/2005), Toshiyuki OSADA (08/24/2005), and Additional name(s) of conveying party(ies) attached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<b>2. Name and address of receiving party(ies)</b> Name: <u>Mitsubishi Heavy Industries, Ltd.</u> Internal Address: _____ Street Address: _____ 16-5, Konan 2-chome, Minato-ku Tokyo City: _____ State: _____ Country: <u>JAPAN</u> Zip: <u>108-8215</u> Additional name(s) & address(es) attached: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
<b>3. Nature of conveyance/Execution Date(s):</b> Execution Date(s): in parentheses after inventor name <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Change of Name <input type="checkbox"/> Security Agreement <input type="checkbox"/> Joint Research Agreement <input type="checkbox"/> Government Interest Assignment <input type="checkbox"/> Executive Order 9424, Confirmatory License <input type="checkbox"/> Other _____		113219 U.S. PTO 11/221989 090905	
<b>4. Application or patent number(s):</b> <input checked="" type="checkbox"/> This document is being filed together with a new application. A. Patent Application No.(s) <u>NEW</u> B. Patent No.(s) Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
<b>5. Name and address to whom correspondence concerning document should be mailed:</b> Name: <u>Charles Gorenstein</u> <u>BIRCH, STEWART, KOLASCH &amp; BIRCH, LLP</u> Internal Address: <u>Atty. Dkt.: 2936-0246PUS1</u> Street Address: <u>8110 Gatehouse Rd</u> <u>Suite 100 East</u> <u>P.O. Box 747</u> City: <u>Falls Church</u> State: <u>VA</u> Zip: <u>22040-0747</u> Phone Number: <u>(703) 205-8000</u> Fax Number: <u>(703) 205-8050</u> Email Address: <u>mailroom@bskb.com</u>		<b>6. Total number of applications and patents involved:</b> <u>1</u> <b>7. Total fee (37 CFR 1.21(h) &amp; 3.41) \$</b> <u>40.00</u> <input type="checkbox"/> Authorized to be charged by credit card <input type="checkbox"/> Authorized to be charged to deposit account <input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> None required (government interest not affecting title)	
<b>9. Signature:</b>  _____ Signature <u>Charles Gorenstein - 29,271</u> Name of Person Signing		<b>8. Payment Information</b> a. Credit Card Last 4 Numbers _____ Expiration Date _____ b. Deposit Account Number _____ Authorized User Name _____ Total number of pages including cover sheet, attachments, and documents: <u>4</u>	

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RECORDATION FORM COVER SHEET  
(continued)

Additional Conveying Party(ies)/Execution Date(s) (1. Continued):

Zenichi YOSHIDA (08/24/2005)

Additional Assignees (2. Continued):

Assignee Name: \_\_\_\_\_

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Assignee Name: \_\_\_\_\_

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Street Address:

City: \_\_\_\_\_ State: \_\_\_\_\_ Country: \_\_\_\_\_ Zip: \_\_\_\_\_

Additional Applications and/or Patents (4. Continued):

Additional Patent Application Numbers  
4A. Continued:

Additional Patent Numbers  
4B. Continued:

Additional numbers attached?

Yes

No

# BIRCH, STEWART, KOLASCH & BIRCH, LLP

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## ASSIGNMENT

Application No. NEW

Filed September 9, 2005

**Insert Name(s)  
of Inventor(s)**

\*\*\***(Given Name FAMILY NAME (ALL CAPS))**\*\*\*

WHEREAS, KIMHIKO MITSUDA YASUHARU YAMAMOTO  
TOSHIYUKI OSADA ZENICHI YOSHIDA

(hereinafter designated as the undersigned) has (have) invented certain new and useful improvements in

**Insert Title  
of Invention**

SEALLESS PUMP

for which an application for Letters Patent of the United States of America has been executed by the undersigned (except in the case of a provisional application).

**Insert Date  
of Signing of  
Application**

on August 24, 2005; and

**Insert Name  
of Assignee**

WHEREAS, MITSUBISHI HEAVY INDUSTRIES, LTD.

**Insert Address  
of Assignee**

of 16-5, Konan 2-chome, Minato-ku, Tokyo 108-8215 Japan

its heirs, successors, legal representatives and assigns (hereinafter designated as the Assignee) is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent(s) that may be granted therefor in the United States of America and

**CHECK BOX  
IF APPROPRIATE**

in any foreign countries.

NOW, THEREFORE, in consideration of the sum of Ten Dollars (\$10.00) to the undersigned in hand paid, the receipt of which is hereby acknowledged, and other good and valuable consideration, the undersigned has (have) sold, assigned and transferred, and by these presents does sell, assign and transfer unto said Assignee the full and exclusive right to the said invention in the United States of America, its territories, dependencies and possessions and the entire right, title and interest in and to any and all Letters Patent(s) which may be granted therefor in the United States of America, its territories, dependencies and possessions, and if the box above is designated, in any and all foreign countries;

and to any and all divisions, reissues, continuations, conversions and extensions thereof for the full term or terms for which the same may be granted.

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional, conversion 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, conversion or reissue thereof or Letter Patent(s) 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.

The undersigned agree(s) to execute all papers and documents and to perform any act which may be necessary in connection with claims or provisions of the International Convention for the 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 of America patent(s) or a grant of a valid United States of America and any foreign patent(s) to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

The undersigned hereby authorize(s) and request(s) the Patent and Trademark Office Officials in the United States of America and in any foreign countries to issue any and all Letters Patents resulting from said application or any continuing, divisional conversion or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) the 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 law firm of Birch, Stewart, Kolasch & Birch, LLP 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 U.S. Patent and Trademark Office for recordation of this document.

The undersigned hereby covenant(s) that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

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

Date <u>August 24, 2005</u>	Name of Inventor <u><i>Kimihiko Mitsuda</i></u> (signature) KIMHIKO MITSUDA
Date <u>August 24, 2005</u>	Name of Inventor <u><i>Yasuharu Yamamoto</i></u> (signature) YASUHARU YAMAMOTO
Date <u>August 24, 2005</u>	Name of Inventor <u><i>Toshiyuki Osada</i></u> (signature) TOSHIYUKI OSADA
Date <u>August 24, 2005</u>	Name of Inventor <u><i>Zenichi Yoshida</i></u> (signature) ZENICHI YOSHIDA
Date _____	Name of Inventor _____ (signature)
Date _____	Name of Inventor _____ (signature)