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U.S. DEPARTMENT OF COMMERCE
United States Patent and Trademark Office

APPLICATION FORM COVER SHEET
PATENTS ONLY

7-19-07

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

1. Name of conveying party(ies):
Tatsufumi AOI (07/06/2007), Susumu URANO (07/06/2007), Shuji KANEKO (07/06/2007), Hiroyuki SHIBATA (07/06/2007), and
Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies)
Name: Mitsubishi Heavy Industries, Ltd.
Internal Address: _____
Street Address: _____
16-5, Konan 2-Chome, Minato-ku
Tokyo
108-8215
JAPAN
City: _____
State: _____
Country: _____ Zip: _____
Additional name(s) & address(es) attached? Yes No

3. Nature of conveyance/Execution Date(s):
Execution Date(s): in parentheses after inventor name
 Assignment Merger Change of Name
 Security Agreement Joint Research Agreement
 Government Interest Assignment
 Executive Order 9424, Confirmatory License
 Other _____

4. Application or patent number(s):
A. Patent Application No.(s)
NEW
Additional numbers attached? Yes No

This document is being filed together with a new application.
B. Patent No.(s)
111826929
 Yes No

5. Name and address to whom correspondence concerning document should be mailed:
Name: Charles Gorenstein
BIRCH, STEWART, KOLASCH & BIRCH, LLP
Internal Address: Atty. Dkt.: 4914-0116PUS1
Street Address: 8110 Gatehouse Road
Suite 100 East
P.O. Box 747
City: Falls Church
State: VA Zip: 22040-0747
Phone Number: (703) 205-8000
Fax Number: (703) 205-8050
Email Address: mailroom@bskb.com

6. Total number of applications and patents involved: 1
7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00
 Authorized to be charged by credit card
 Authorized to be charged to deposit account
 Enclosed
 None required (government interest not affecting title)

8. Payment Information
a. Credit Card Last 4 Numbers _____
Expiration Date _____
b. Deposit Account Number 02-2448
Authorized User Name Charles Gorenstein

9. Signature Charles Gorenstein Date July 19, 2007
Signature
Charles Gorenstein - 29,271
Name of Person Signing
Total number of pages including cover sheet, attachments, and documents: 3

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RECORDATION FORM COVER SHEET
(continued)

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

Seinoshin HAMANAKA (07/06/2007)

Additional Assignees (2. Continued):

Assignee Name: _____

Internal Address:

Street Address:

City: _____ State: _____ Country: _____ Zip: _____

Assignee Name: _____

Internal Address:

Street Address:

City: _____ State: _____ Country: _____ Zip: _____

Assignee Name: _____

Internal Address:

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

UNITED STATES PATENT RIGHTS, OR
UNITED STATES PLUS ALL FOREIGN PATENT RIGHTS

ASSIGNMENT

Application No. NEW

Filed 7/19/07

Insert Name(s)
of Inventor(s)

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

WHEREAS, Tatsufumi AOI ; Susumu URANO
Shuji KANEKO , Hiroyuki SHIBATA , Seinoshin HAMANAKA

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

Insert Title
of Invention

MEDICAL DEVICE

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 July 6, 2007 ; 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 in any foreign countries.

**CHECK BOX
IF APPROPRIATE**

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>July 6, 2007</u>	Name of Inventor <u>Tatsufumi AOI</u> (signature) Tatsufumi AOI
Date <u>July 6, 2007</u>	Name of Inventor <u>Susumu URANO</u> (signature) Susumu URANO
Date <u>July 6, 2007</u>	Name of Inventor <u>Shuji KANEKO</u> (signature) Shuji KANEKO
Date <u>July 6, 2007</u>	Name of Inventor <u>Hiroyuki SHIBATA</u> (signature) Hiroyuki SHIBATA
Date <u>July 6, 2007</u>	Name of Inventor <u>Seinoshin HAMANAKA</u> (signature) Seinoshin HAMANAKA
Date _____	Name of Inventor _____ (signature)