

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Mingyao XU	09/14/2012
Takaaki MORIE	09/14/2012
RECEIVING PARTY DATA	
Name:	SUMITOMO HEAVY INDUSTRIES, LTD.
Street Address:	1-1, Osaki 2-chome, Shinagawa-ku
City:	Tokyo
State/Country:	JAPAN
Postal Code:	141-6025
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	13616385
CORRESPONDENCE DATA	
Fax Number:	2027978188
Phone:	202 797 4181
Email:	IPUSA@IPUSAPAT.COM, ips@itohpat.co.jp
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>	
Correspondent Name:	IPUSA, P.L.L.C
Address Line 1:	1054 31ST STREET, N.W.
Address Line 2:	Suite 400
Address Line 4:	Washington, DISTRICT OF COLUMBIA 20007
ATTORNEY DOCKET NUMBER:	12SJ-010
NAME OF SUBMITTER:	Chris Tanner
Total Attachments: 3 source=12SJ-010AssignmentRecordation#page1.tif source=12SJ-010AssignmentRecordation#page2.tif source=12SJ-010AssignmentRecordation#page3.tif	

CH \$40.00 13616385

RECORDATION FORM COVER SHEET
PATENTS ONLY

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)

Mingyao XU, Takaaki MORIE

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

3. Nature of conveyance/Execution Date(s):

Execution Date(s) September 14, 2012

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Joint Research Agreement
☐ Government Interest Assignment
☐ Executive Order 9424, Confirmatory License
☐ Other _____

2. Name and address of receiving party(ies)

Name: SUMITOMO HEAVY INDUSTRIES, LTD.

Internal Address: _____

Street Address: 1-1, Osaki 2-chome, Shinagawa-ku,

City: Tokyo

State: _____

Country: Japan Zip: 141-6025

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

4. Application or patent number(s):

☒ This document is being filed together with a new application.

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address to whom correspondence concerning document should be mailed:

Name: IPUSA, PLLC

Internal Address: _____

Street Address: 1054 31st Street, N.W., Suite 400

City: Washington

State: DC Zip: 20007

Phone Number: 202-797-4181

Fax Number: 202-797-8188

Email Address: ipusa@ipusapat.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 50-4424

Authorized User Name Christopher M. Tanner

9. Signature:

CM Tanner
Signature

Sep 14, 2012
Date

Christopher M. Tanner

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents:

3

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, V.A. 22313-1450

PATENT
REEL: 028973 FRAME: 0817

ASSIGNMENT

THIS ASSIGNMENT, by (1) Mingyao XU and (2) Takaaki MORIE (hereinafter referred to as "Assignors"), residing at (1) Nishitokyo-shi, Tokyo Japan and (2) Nishitokyo-shi, Tokyo Japan respectively;

WHEREAS, Assignors have invented certain new and useful improvements in

CRYOGENIC REFRIGERATOR

set forth in a patent application for Letters Patent of the United States, executed concurrently herewith; and

WHEREAS, SUMITOMO HEAVY INDUSTRIES, LTD. (hereinafter referred to as "Assignee"), having offices at 1-1, Osaki 2-chome, Shinagawa-ku, Tokyo 141-6025 Japan, is desirous of acquiring the entire right, title and interest in and to said inventions and said application for Letters Patent of the United States, and in and to any Letters Patent of the United States to be obtained therefor and thereon;

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, Assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions and application for Letters Patent, and in and to any and all direct and indirect divisions, continuations and continuation-in-part of said application, and any and all Letters Patent in the United States and all foreign countries which may be granted therefor and thereon, and reissues, reexaminations and extensions of said Letters Patent, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by the Assignee, for its own use and benefit and the use and benefit of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent may be granted and/or extended, as fully and entirely as the same would have been held and enjoyed by Assignors, had this sale and Assignment not been made;

AND for the same consideration, Assignors hereby represent and warrant to Assignee, its successors legal representatives and assigns, that, at the time of execution and delivery of these presents, except for any rights titles, and or interests that have arisen to Assignee under the law or that have already been transferred to Assignee, Assignors are the sole and lawful owners of the entire right, title and interest in and to said inventions and application for Letters Patent above-mentioned, and that the same are unencumbered and that Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth;

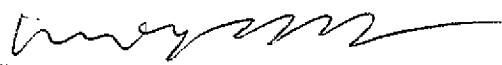
AND for the same consideration, Assignors hereby covenant and agree to and with Assignee, its successors, legal representatives and assigns, that Assignors will sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any Letters Patent and applications for Letters Patent for said inventions, without charge to Assignee, its successors, legal representatives, and assigns, whenever counsel of Assignee, or counsel of its successors, legal representatives and assigns shall advise; that any proceeding in connection with said inventions, or said patent application for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said inventions in any country, including but not limited to interference proceedings, is lawful and desirable; or, that any division, continuation or continuation-in-part of any application for Letters Patent, or any reissue, reexamination or extension of any Letters Patent, to be obtained thereon, is lawful and desirable;

AND Assignors hereby request that the Director of the United States Patent and Trademark Office to issue said Letters Patent of the United States to Assignee, as Assignee of said inventions and the said Letters Patent to be issued thereon, for the sole use and benefit of Assignee, its successors, legal representatives and assigns;

AND Assignors hereby grant the following individuals 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 and Trademark Office for recordation of this document: All practitioners associated with the Customer Number 77464.

AND Assignors acknowledge an obligation of assignment of this invention to Assignee at the time the invention was made.

September 14, 2012
Date


Mingyao XU

September 14, 2012
Date

T. Morie
Takaaki MORIE