

## 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>Osamu KITAYAMA</td> <td>05/20/2013</td> </tr> <tr> <td>Keitaro ISHIKAWA</td> <td>05/20/2013</td> </tr> <tr> <td>Yorichika MIHARA</td> <td>05/20/2013</td> </tr> <tr> <td>Taichi AOYAMA</td> <td>05/20/2013</td> </tr> <tr> <td>Shinji NISHIMURA</td> <td>05/20/2013</td> </tr> </tbody> </table>		Name	Execution Date	Osamu KITAYAMA	05/20/2013	Keitaro ISHIKAWA	05/20/2013	Yorichika MIHARA	05/20/2013	Taichi AOYAMA	05/20/2013	Shinji NISHIMURA	05/20/2013
Name	Execution Date												
Osamu KITAYAMA	05/20/2013												
Keitaro ISHIKAWA	05/20/2013												
Yorichika MIHARA	05/20/2013												
Taichi AOYAMA	05/20/2013												
Shinji NISHIMURA	05/20/2013												
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>14007147</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	14007147								
Property Type	Number												
Application Number:	14007147												
CORRESPONDENCE DATA													
<p>Fax Number: 2027218250  <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 202-721-8200        Email: wlp@wenderoth.com        Correspondent Name: Wenderoth, Lind &amp; Ponack, L.L.P.        Address Line 1: 1030 15th Street, N.W.        Address Line 2: Suite 400 East        Address Line 4: Washington, DISTRICT OF COLUMBIA 20005</p>													
ATTORNEY DOCKET NUMBER:	2013-1468A												
NAME OF SUBMITTER:	Kelly Fore												

OP \$40.00 14007147

Signature:	/Kelly Fore/
Date:	09/24/2013
Total Attachments: 2 source=ASSIGNMENT#page1.tif source=ASSIGNMENT#page2.tif	

# 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) Osamu KITAYAMA, Keitaro ISHIKAWA, Yorichika MIHARA,

Taichi AOYAMA, Shinji NISHIMURA,

the undersigned hereby sell(s) and assign(s) to

Insert Name(s) of Assignee(s) MITSUBISHI HEAVY INDUSTRIES, LTD.

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

Title of Invention (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

AIRCRAFT/SPACECRAFT FLUID COOLING SYSTEM AND  
AIRCRAFT/SPACECRAFT FLUID COOLING METHOD

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.

1st Inventor Osamu Kitayama Date  
第一発明者 (署名、ローマ字もしくは漢字) Osamu KITAYAMA

署名の日付 MAY. 20. 2013

2nd Inventor Keitaro Ishikawa Date  
第二発明者 (署名、ローマ字もしくは漢字) Keitaro ISHIKAWA

署名の日付 MAY. 20. 2013

3rd Inventor Taichi Aoyama Date  
第三発明者 (署名、ローマ字もしくは漢字) Taichi AOYAMA

署名の日付 MAY. 20. 2013

4th Inventor Shinji Nishimura Date  
第四発明者 (署名、ローマ字もしくは漢字) Shinji NISHIMURA

署名の日付 MAY. 20. 2013

5th Inventor Shinji Nishimura Date  
第五発明者 (署名、ローマ字もしくは漢字) Shinji NISHIMURA

署名の日付 MAY. 20. 2013

6th Inventor \_\_\_\_\_ Date  
第六発明者 (署名、ローマ字もしくは漢字)

署名の日付

7th Inventor \_\_\_\_\_ Date  
第七発明者 (署名、ローマ字もしくは漢字)

署名の日付

The above application may be more particularly identified as follows:  
上記出願は、さらに具体的には以下のように特定されます。

U.S. Application Serial No. \_\_\_\_\_ Filing Date  
(上記出願日) 提出の米国特許出願第 (上記出願番号) 号

Applicant Reference Number 2012-044 Atty Docket No.  
出願人側整理番号 (上記番号) 米国弁護士側管理番号 (上記番号)

Title of Invention  
発明の名称

AIRCRAFT/SPACECRAFT FLUID COOLING SYSTEM AND  
AIRCRAFT/SPACECRAFT FLUID COOLING METHOD