

PATENT ASSIGNMENT

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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>Shinya HASHIMOTO</td> <td>10/01/2012</td> </tr> <tr> <td>Takuro KAMEDA</td> <td>10/01/2012</td> </tr> <tr> <td>Kenichi ARASE</td> <td>10/01/2012</td> </tr> </tbody> </table>		Name	Execution Date	Shinya HASHIMOTO	10/01/2012	Takuro KAMEDA	10/01/2012	Kenichi ARASE	10/01/2012
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Shinya HASHIMOTO	10/01/2012								
Takuro KAMEDA	10/01/2012								
Kenichi ARASE	10/01/2012								
RECEIVING PARTY DATA									
Name:	mitsubishi heavy industries, ltd.								
Street Address:	16-5, Konan 2-chome, Minato-ku								
City:	Tokyo								
State/Country:	JAPAN								
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>13559972</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13559972				
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Application Number:	13559972								
CORRESPONDENCE DATA									
Fax Number:	2028221111								
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>									
Phone:	(202)822-1100								
Email:	patentmail@whda.com								
Correspondent Name:	Westerman, Hattori, Daniels & Adrian, LL								
Address Line 1:	1250 Connecticut Ave, NW								
Address Line 2:	Suite 700								
Address Line 4:	Washington, DISTRICT OF COLUMBIA 20036								
ATTORNEY DOCKET NUMBER:	120893								
NAME OF SUBMITTER:	William F. Westerman								
Total Attachments: 1 source=Assignment#page1.tif									

OP \$40.00 13559972

Docket No. _____

Westerman, Hattori, Daniels & Adrian, LLP

2012-266-001
058-42995
US (M)/

U.S. ASSIGNMENT

IN CONSIDERATION of the sum of One Dollar (\$1.00), and of other good and valuable consideration paid to the undersigned inventor(s) (hereinafter ASSIGNOR) by
MITSUBISHI HEAVY INDUSTRIES, LTD.
of 16-5, Konan 2-chome, Minato-ku, Tokyo, Japan

(Insert ASSIGNEE's
Name(s) Address(es))

(hereinafter ASSIGNEE), the receipt of which is hereby acknowledged, the undersigned ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest to the invention entitled

(Title of Invention)

AXIAL-FLOW FLUID MACHINE, AND VARIABLE VANE DRIVE DEVICE THEREOF

(*If the assignment is being filed after the filing of the application, this section must be completed)

for which application for Letters Patent of the United States was executed on even date herewith unless otherwise indicated below:

* filed on July 27, 2012 Serial No. 13/559,972

(Westerman, Hattori, Daniels & Adrian, LLP is hereby authorized to insert the series code, serial number and/or filing date hereon, when known)

and all Letters Patent of the United States to be obtained therefore on said application or any continuation, divisional, substitute, reissue or reexamination thereof for the full term or terms for which the same may be granted.

The ASSIGNOR agrees to execute all papers necessary in connection with the application and any continuation, divisional, reissue or reexamination applications thereof and also to execute separate assignments in connection with such applications as the ASSIGNEE may deem necessary or expedient.

The ASSIGNOR agrees to execute all papers necessary in connection with any interference, litigation, or other legal proceeding which may be declared concerning this application or any continuation, divisional, reissue or reexamination thereof or Letters Patent 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, litigation, or other legal proceeding.

IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s).

(Signatures)

<u>Shinya Hashimoto</u> (Signature)	<u>Shinya HASHIMOTO</u> (Type Name)	<u>October 1, 2012</u> (Date)
<u>Takuro Kameda</u> (Signature)	<u>Takuro KAMEDA</u> (Type Name)	<u>October 1, 2012</u> (Date)
<u>Kenichi Arase</u> (Signature)	<u>Kenichi ARASE</u> (Type Name)	<u>October 1, 2012</u> (Date)
_____ (Signature)	_____ (Type Name)	_____ (Date)
_____ (Signature)	_____ (Type Name)	_____ (Date)
_____ (Signature)	_____ (Type Name)	_____ (Date)

NO LEGALIZATION REQUIRED

PATENT

RECORDED: 10/05/2012

REEL: 029081 FRAME: 0364