

# PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
<b>CONVEYING PARTY DATA</b>											
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>Hiroyasu ARUGA</td> <td>08/24/2010</td> </tr> <tr> <td>Kazuyuki UENOYAMA</td> <td>08/24/2010</td> </tr> <tr> <td>Toshiya HASHIMOTO</td> <td>08/24/2010</td> </tr> </tbody> </table>		Name	Execution Date	Hiroyasu ARUGA	08/24/2010	Kazuyuki UENOYAMA	08/24/2010	Toshiya HASHIMOTO	08/24/2010		
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<b>RECEIVING PARTY DATA</b>											
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">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
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<b>PROPERTY NUMBERS Total: 1</b>											
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<b>CORRESPONDENCE DATA</b>											
<p>Fax Number: (202)721-8250</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 202-721-8200</p> <p>Email: wlp@wenderoth.com</p> <p>Correspondent Name: Wenderoth, Lind &amp; Ponack, L.L.P.</p> <p>Address Line 1: 16-5, Konan 2-chome, Minato-ku,</p> <p>Address Line 2: Suite 400 East</p> <p>Address Line 4: Washington, DISTRICT OF COLUMBIA 20005</p>											
ATTORNEY DOCKET NUMBER:	2010-1165A										
NAME OF SUBMITTER:	Janae Johnson										
<p>Total Attachments: 2</p> <p>source=ASSIGNMENT#page1.tif</p>											

OP \$40.00 29369414

**501289661**

**PATENT**  
**REEL: 024983 FRAME: 0376**



# 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)

1) Hiroyasu ARUGA, 2) Kazuyuki UENOYAMA, 3) Toshiya HASHIMOTO

Insert Name(s)  
of  
Assignee(s)

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

**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

Internal Combustion Engine

Date of  
Signing of  
Application

for which an application for patent in the United States has been executed by the undersigned  
on August 24, 2010

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., 1030 15<sup>th</sup> Street, N.W., Suite 400 East, Washington, D.C. 20005-1503, 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 recordal of this document.

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

Date August 24, 2010, Name of Inventor Hiroyasu Aruga  
Hiroyasu ARUGA

Date August 24, 2010, Name of Inventor Kazuyuki Ueno  
Kazuyuki UENOYAMA

Date August 24, 2010, Name of Inventor Toshiya Hashimoto  
Toshiya HASHIMOTO

Date \_\_\_\_\_, Name of Inventor \_\_\_\_\_

Date \_\_\_\_\_, Name of Inventor \_\_\_\_\_

Date \_\_\_\_\_, Name of Inventor \_\_\_\_\_

(This assignment should preferably be acknowledged before a United States Consul. If not, then the execution by the Inventor(s) should be witnessed by at least two witnesses who sign here.)

Witness Yoshinori Aruga

Witness Akira Shirai

#### ACKNOWLEDGMENT

\_\_\_\_\_  
\_\_\_\_\_  
} ss

This \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_,  
before me personally came the above-named  
\_\_\_\_\_ to me personally known as the individual(s) who executed the foregoing assignment, who did  
acknowledge to me that he (they) executed the same of his (their) own free will for the purposes therein set forth.

SEAL

\_\_\_\_\_  
Official Signature

\_\_\_\_\_  
Official Title

The above application may be more particularly identified as follows:

U.S. Application Serial No.: \_\_\_\_\_

Filing Date: \_\_\_\_\_

Applicant Reference Number: \_\_\_\_\_

Attorney Docket No.: \_\_\_\_\_

Title of the Invention

Internal Combustion Engine