

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>Hiroyasu ARUGA</td> <td>08/13/2012</td> </tr> <tr> <td>Kazuyuki UENOYAMA</td> <td>08/13/2012</td> </tr> <tr> <td>Toshiya HASHIMOTO</td> <td>08/13/2012</td> </tr> </tbody> </table>		Name	Execution Date	Hiroyasu ARUGA	08/13/2012	Kazuyuki UENOYAMA	08/13/2012	Toshiya HASHIMOTO	08/13/2012
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Hiroyasu ARUGA	08/13/2012								
Kazuyuki UENOYAMA	08/13/2012								
Toshiya HASHIMOTO	08/13/2012								
RECEIVING PARTY DATA									
Name:	MITSUBISHI HEAVY INDUSTRIES, LTD.								
Street Address:	16-5, Konan 2-chome, Minato-ku								
City:	Tokyo								
State/Country:	JAPAN								
Postal Code:	1088215								
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>29429010</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	29429010				
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Application Number:	29429010								
CORRESPONDENCE DATA									
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ATTORNEY DOCKET NUMBER:	0305-0211PUS1								
NAME OF SUBMITTER:	Charles Gorenstein								
Total Attachments: 2 source=2012_09_06_ASSIGNMENT_0305-0211PUS1#page1.tif source=2012_09_06_ASSIGNMENT_0305-0211PUS1#page2.tif									

OP \$40.00 29429010

BIRCH, STEWART, KOLASCH & BIRCH, LLPUNITED STATES PATENT RIGHTS, OR
UNITED STATES PLUS ALL FOREIGN PATENT RIGHTS**ASSIGNMENT**Application No. 29/429,010Filed August 6, 2012Insert Name(s)
of Inventor(s)*****(Given Name FAMILY NAME (ALL CAPS))*****

WHEREAS, ①Hiroyasu ARUGA ②Kazuyuki UENOYAMA ③Toshiya HASHIMOTO

Insert Title
of Invention

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

Internal Combustion Engine

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
Applicationon August 13, 2012; andInsert Name
of AssigneeWHEREAS, MITSUBISHI HEAVY INDUSTRIES, LTD.Insert Address
of Assigneeof 16-5, Konan 2-chome, Minato-ku, Tokyo 1088215 JapanCHECK BOX
IF APPROPRIATE

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.

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 August 13, 2012

Name of Inventor

Hiroyasu Aruga
(signature) Hiroyasu ARUGA

Date August 13, 2012

Name of Inventor

Kazuyuki Uenoyama
(signature) Kazuyuki UENOYAMA

Date August 13, 2012

Name of Inventor

Toshiya Hashimoto
(signature) Toshiya HASHIMOTO

Date _____

Name of Inventor

(signature)

Date _____

Name of Inventor

(signature)

Date _____

Name of Inventor

(signature)