

PATENT ASSIGNMENT

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| SUBMISSION TYPE: | NEW ASSIGNMENT | | | | | | | | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|---------------|----------------|---------------------|------------|-----------------|------------|---------------------|------------|---------------|------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT | | | | | | | | | | |
| CONVEYING PARTY DATA | | | | | | | | | | | |
| <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:70%;">Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Toru TANAKA</td> <td>11/18/2008</td> </tr> <tr> <td>Shinji WATANABE</td> <td>11/18/2008</td> </tr> <tr> <td>Tatsuhiko TAKAHASHI</td> <td>11/18/2008</td> </tr> <tr> <td>Masayoshi ITO</td> <td>11/19/2008</td> </tr> </tbody> </table> | | Name | Execution Date | Toru TANAKA | 11/18/2008 | Shinji WATANABE | 11/18/2008 | Tatsuhiko TAKAHASHI | 11/18/2008 | Masayoshi ITO | 11/19/2008 |
| Name | Execution Date | | | | | | | | | | |
| Toru TANAKA | 11/18/2008 | | | | | | | | | | |
| Shinji WATANABE | 11/18/2008 | | | | | | | | | | |
| Tatsuhiko TAKAHASHI | 11/18/2008 | | | | | | | | | | |
| Masayoshi ITO | 11/19/2008 | | | | | | | | | | |
| RECEIVING PARTY DATA | | | | | | | | | | | |
| Name: | Mitsubishi Electric Corporation | | | | | | | | | | |
| Street Address: | 7-3, Marunouchi 2-chome | | | | | | | | | | |
| City: | Chiyoda-ku, Tokyo | | | | | | | | | | |
| State/Country: | JAPAN | | | | | | | | | | |
| Postal Code: | 100-8310 | | | | | | | | | | |
| PROPERTY NUMBERS Total: 1 | | | | | | | | | | | |
| <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;">Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12340262</td> </tr> </tbody> </table> | | Property Type | Number | Application Number: | 12340262 | | | | | | |
| Property Type | Number | | | | | | | | | | |
| Application Number: | 12340262 | | | | | | | | | | |
| CORRESPONDENCE DATA | | | | | | | | | | | |
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| Email: | bmurray@SUGHRUE.COM | | | | | | | | | | |
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| Address Line 4: | Washington, DISTRICT OF COLUMBIA 20037-3213 | | | | | | | | | | |
| ATTORNEY DOCKET NUMBER: | Q111298 | | | | | | | | | | |
| NAME OF SUBMITTER: | Alan J. Kasper | | | | | | | | | | |
| Total Attachments: 1 source=ASSIGNMENT_AS_FILED#page1.tif | | | | | | | | | | | |

CH \$40.00 12340262

PATENT

ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00), and other good and valuable consideration, the receipt of which is hereby acknowledged, the undersigned, Toru TANAKA, Shinji WATANABE, Tatsuhiko TAKAHASHI and Masayoshi ITO hereby sells, assigns and transfers to

MITSUBISHI ELECTRIC CORPORATION
of 7-3, Marunouchi 2-chome, Chiyoda-ku, TOKYO 100-8310 JAPAN

(hereinafter called the Assignee), its successors and assigns, the entire right, title, and interest in and to:

- (i) the application for United States Letters Patent entitled CONTROL APPARATUS FOR INTERNAL COMBUSTION ENGINE which was executed by the undersigned on the dates indicated below or was filed on December 19, 2008 and accorded Serial No. 12/340,262 (hereinafter called the Application);
- (ii) any and all inventions and improvements which are described in the Application;
- (iii) any and all United States Letters Patents which may be granted on the Application (hereinafter called Patent);
- (iv) any and all divisions, continuations, substitutes, reexaminations, reissues, or extensions of the Application or Patent; and
- (v) all benefits under the International Convention for the Protection of Industrial Property.

Said Assignee of said patent application and the attorneys appointed to prosecute said patent application are authorized to insert in this instrument the filing date and serial number of said application.

The Commissioner of Patents and Trademarks is authorized to issue any and all of said Letters Patent, when granted, to said Assignee.

Further, it is agreed that, when requested, without charge to but at the expense of said Assignee, the undersigned will execute all divisional, continuing, substitute, or reissue patent applications; execute all additional assignments and other writings, including reexamination papers; and provide all reasonable assistance requested by the Assignee to secure and maintain appropriate patent protection.

| INVENTOR(S): | DATE |
|--------------------------------------------------|----------------------|
| (Toru TANAKA) <u>Toru Tanaka</u> | <u>Nov. 18, 2008</u> |
| (Shinji WATANABE) <u>Shinji Watanabe</u> | <u>Nov. 18, 2008</u> |
| (Tatsuhiko TAKAHASHI) <u>Tatsuhiko Takahashi</u> | <u>Nov. 18, 2008</u> |
| (Masayoshi ITO) <u>Masayoshi Ito</u> | <u>Nov. 19, 2008</u> |

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