

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>Takeshi MIYAURA</td><td>12/14/2009</td></tr><tr><td>Yasuyuki TERADA</td><td>12/14/2009</td></tr><tr><td>Atsushi MORIKAWA</td><td>12/14/2009</td></tr></tbody></table> | | Name | Execution Date | Takeshi MIYAURA | 12/14/2009 | Yasuyuki TERADA | 12/14/2009 | Atsushi MORIKAWA | 12/14/2009 |
| Name | Execution Date | | | | | | | | |
| Takeshi MIYAURA | 12/14/2009 | | | | | | | | |
| Yasuyuki TERADA | 12/14/2009 | | | | | | | | |
| Atsushi MORIKAWA | 12/14/2009 | | | | | | | | |
| RECEIVING PARTY DATA | | | | | | | | | |
| Name: | TOYOTA JIDOSHA KABUSHIKI KAISHA | | | | | | | | |
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| State/Country: | JAPAN | | | | | | | | |
| Postal Code: | 471-8571 | | | | | | | | |
| 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>12738461</td></tr></tbody></table> | | Property Type | Number | Application Number: | 12738461 | | | | |
| Property Type | Number | | | | | | | | |
| Application Number: | 12738461 | | | | | | | | |
| CORRESPONDENCE DATA | | | | | | | | | |
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| Correspondent Name: | SUGHRUE MION, PLLC | | | | | | | | |
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| NAME OF SUBMITTER: | William H. Mandir | | | | | | | | |
| Total Attachments: 1 source=Q116379_Assignment#page1.tif | | | | | | | | | |

CH 12738461 \$40.00

PATENT

501150473

REEL: 024246 FRAME: 0247

Assignment

Whereas, I/We, Takeshi MIYAURA, Yasuyuki TERADA, and Atsushi MORIKAWA
of Toyota-shi, Aichi-ken, Japan, Toyota-shi, Aichi-ken, Japan, and Toyota-shi, Aichi-ken, Japan
hereinafter called assignor(s), have
invented certain improvements in

CONTROLLER FOR DIESEL ENGINE AND METHOD OF CONTROLLING DIESEL
ENGINE and executed an application for Letters Patent of the United States of America
therefor on _____; and

Whereas, TOYOTA JIDOSHA KABUSHIKI KAISHA

(assignee), desires to acquire the entire right, title, and interest in the application and
invention, and to any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

I/We, the above named assignor(s), hereby sell, assign and transfer to the above named
assignee, its successors and assigns, the entire right, title and interest in the application and the
invention disclosed therein for the United States of America, including the right to claim priority
under 35 U.S.C. §119, and I/we request the Director of the U.S. Patent and Trademark Office to
issue any Letters Patent granted upon the invention set forth in the application to the assignee, its
successors and assigns; and I/we will execute without further consideration all papers deemed
necessary by the assignee in connection with the United States application when called upon to
do so by the assignee.

I/We hereby authorize and request our attorneys SUGHRUE MION, PLLC of 2100
Pennsylvania Avenue, NW, Washington, DC 20037-3213 to insert here in parentheses
(Application number _____ and Confirmation number
_____, filed _____) the application
number and filing date of said application when known.

Date: December 14, 2009

Takeshi Miyaura
s/ Takeshi MIYAURA

Date: December 14, 2009

Yasuyuki Terada
s/ Yasuyuki TERADA

Date: December 14, 2009

Atsushi Morikawa
s/ Atsushi MORIKAWA

Date: _____

s/

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. §261)