

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT																						
NATURE OF CONVEYANCE:	ASSIGNMENT																						
CONVEYING PARTY DATA																							
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<table border="1"> <tr> <td>Name:</td> <td>TOYOTA JIDOSHA KABUSHIKI KAISHA</td> </tr> <tr> <td>Street Address:</td> <td>1, Toyota-cho</td> </tr> <tr> <td>City:</td> <td>Toyota-shi, Aichi</td> </tr> <tr> <td>State/Country:</td> <td>JAPAN</td> </tr> <tr> <td>Postal Code:</td> <td>4718571</td> </tr> </table>		Name:	TOYOTA JIDOSHA KABUSHIKI KAISHA	Street Address:	1, Toyota-cho	City:	Toyota-shi, Aichi	State/Country:	JAPAN	Postal Code:	4718571												
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Application Number:	13386260																						
CORRESPONDENCE DATA																							
Fax Number:	(202)293-7860																						
Phone:	202-293-7060																						
Email:	SWELLS@SUGHRUE.COM, SUGHRUE@SUGHRUE.COM																						
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>																							
Correspondent Name:	Sughrue Mion, PLLC																						

OP \$40.00 13386260

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Address Line 4: Washington, DISTRICT OF COLUMBIA 20037

ATTORNEY DOCKET NUMBER: Q128736

NAME OF SUBMITTER: Sharmeisa Wells, New Application Spec

Total Attachments: 2
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Assignment

Whereas, I/We, of

Shota KITANO, Hitoshi TANAKA, Isao NAKAJIMA, Yoshihisa ODA,
Masashi HAKARIYA, Kiyotaka KUSIHAMA, Kazuyuki NODA, Akihiro KATAYAMA,
Yuichi KOHARA and Katsumi ADACHI

hereinafter called assignor(s), have invented certain improvements in

APPARATUS FOR DETECTING IMBALANCE ABNORMALITY IN AIR-FUEL RATIO
BETWEEN CYLINDERS IN MULTI-CYLINDER INTERNAL COMBUSTION ENGINE

and executed an application for Letters Patent of the United States of America
therefor on _____; and

Whereas,

TOYOTA JIDOSHA KABUSHIKI KAISHA
of 1, Toyota-cho, Toyota-shi, Aichi 4718571 Japan

(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 all divisions,
and continuations thereof, and all Letters Patent of the United States that may be granted
thereon, and all reissues thereof, 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 13/386,260 and Confirmation number
2960, filed January 20, 2012) the application
number and filing date of said application when known.

Date: 2011/11/17

Shota Kitano
s/ Shota KITANO

Date: 2011/11/28

Hitoshi Tanaka
s/ Hitoshi TANAKA

Date: 2011/11/24

Isao Nakajima
s/ Isao NAKAJIMA

Date: 2011/11/28

Yoshihisa Oda
s/ Yoshihisa ODA

Date: 2011/11/17 Masashi Hakariya
s/ Masashi HAKARIYA

Date: 2011/11/17 Kiyotaka Kushihamma
s/ Kiyotaka KUSIHAMA

Date: 2011/11/17 Kazuyuki Noda
s/ Kazuyuki NODA

Date: 2011/11/17 Akihiro Katayama
s/ Akihiro KATAYAMA

Date: 2011/11/17 Yuichi Kohara
s/ Yuichi KOHARA

Date: 2011/11/17 Katsumi Adachi
s/ Katsumi ADACHI

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