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1. A. Name of conveying parties:

- 1) Shinya HIROTA
- 2) Toru SASATANI
- 3) Sakutaro HOSHI
- 4) Hiroshi FUJIMOTO

B. Additional name(s) of conveying party(ies) attached?

☐ Yes ☒ No

2. A. Name and address of receiving party.

TOYOTA JIDOSHA KABUSHIKI KAISHA
1, TOYOTA-CHO, TOYOTA-SHI, AICHI
4718571 JAPAN

B. Additional name(s) & address(es) attached?

☐ Yes ☒ No

3. A. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____

B. Execution Date: October 13, 2010-ALL4. A. Patent Application No. 12/990,816

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ NoC. Title of Application: EXHAUST PURIFICATION APPARATUS FOR INTERNAL COMBUSTION ENGINE

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: James A. Oliff

Address: **OLIFF & BERRIDGE, PLC**
P.O. Box 320850
Alexandria, VA 22320-4850
Phone Number: 703-836-6400
Fax Number: 703-836-2787

6. Total number of applications and patents involved: 1

7. Please charge Deposit Account No. 15-0461 the total fee (37 CFR 301.41) in the amount of \$40.00.

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

James A. Oliff
James A. Oliff, Registration No. 27,075
Jeffrey R. Bousquet, Registration No. 57,771

Date: November 3, 2010**PATENT****REEL: 026009 FRAME: 0244**

ASSIGNMENT

(1-8) Insert Name(s) of Inventor(s)

(1) Shinya HIROTA (5) _____

(2) Toru SASATANI (6) _____

(3) Sakutaro HOSHI (7) _____

(4) Hiroshi FUJIMOTO (8) _____

In consideration of the sum of one dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned, each undersigned agrees to assign, and hereby does assign, transfer and set over to

(9) Insert Name of Assignee (9) TOYOTA JIDOSHA KABUSHIKI KAISHA

(10) Insert Address of Assignee (10) 1, Toyota-cho, Toyota-shi, Aichi 4718571 Japan

(hereinafter designated as the Assignee) and Assignee's heirs, successors, assigns and legal representatives, the entire right, title and interest for the United States of America as defined in 35 U.S.C. §100, in the invention, and in all applications for patent including any and all provisional, non-provisional, divisional, continuation, substitute, and reissue application(s), and all Letters Patent, extensions, reissues and reexamination certificates that may be granted on the invention known as

(11) Insert Identification such as Title, Case Number, or Foreign Application Number (11) EXHAUST PURIFICATION APPARATUS FOR INTERNAL COMBUSTION ENGINE

(Attorney Docket No 147453)

for which the undersigned has (have) executed an application for patent in the United States of America on even date herewith or

(12) Insert Date of Signing of Application (12) on October 13, 2010

(13) Alternative Identification for filed applications (13) U.S. application Serial Number 12/990,816

filed November 3, 2010

1) Each undersigned agrees to execute all papers necessary in connection with any application and any continuing, divisional or reissue applications for the invention, and any patent(s) issuing thereon, and also to execute separate assignments in connection with such applications and patents as the Assignee may deem necessary.

2) Each undersigned agrees to execute all papers necessary in connection with any interference which may be declared concerning any application or continuation or division thereof, or any patent or reissue application based thereon, for the invention, and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.

3) Each undersigned agrees 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.

4) Each undersigned agrees to perform all affirmative acts which may be necessary to obtain, maintain or confirm by reissue or reexamination a grant of a valid United States patent to the Assignee.

5) Each undersigned authorizes and requests the Commissioner of the U.S. Patent and Trademark Office to issue any and all Letters Patents of the United States resulting from said application(s) to the said Assignee, as Assignee of the entire interest, and covenants that he has full right to convey the entire interest herein assigned, and that he has not executed, and will not execute, any agreements in conflict herewith, and agrees that this assignment is binding on him and his heirs, successors, assigns and legal representatives.

6) Each undersigned hereby grants the firm of OLIFF & BERRIDGE, PLC the power to insert on this assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document

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

Date	<u>October 13, 2010</u>	Inventor Signature	<u>Shinya HIROTA</u> <u>Shinya Hirota</u> (SEAL)
Date	<u>October 13, 2010</u>	Inventor Signature	<u>Toru SASATANI</u> <u>Toru Sasatani</u> (SEAL)
Date	<u>October 13, 2010</u>	Inventor Signature	<u>Sakutaro HOSHI</u> <u>Sakutaro Hoshi</u> (SEAL)
Date	<u>October 13, 2010</u>	Inventor Signature	<u>Hiroshi FUJIMOTO</u> <u>Hiroshi Fujimoto</u> (SEAL)
Date	_____	Inventor Signature	_____ (SEAL)
Date	_____	Inventor Signature	_____ (SEAL)
Date	_____	Inventor Signature	_____ (SEAL)
Date	_____	Inventor Signature	_____ (SEAL)