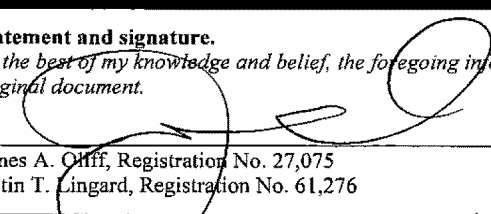


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1. A. Name of conveying parties: (1) Satoshi YOSHIZAKI (2) Shuntaro OKAZAKI (3) Masashi SHIBAYAMA (4) Kaoru SHOKATSU (5) Hajime KAWAKAMI B. Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			2. A. Name and address of receiving party: TOYOTA JIDOSHA KABUSHIKI KAISHA 1, TOYOTA-CHO, TOYOTA-SHI, AICHI-KEN, 471-8571 JAPAN B. Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. A. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other _____ B. Execution Date: <u>(1): October 5, 2011;</u> <u>(2) and (5): October 11, 2011;</u> <u>(3): October 17, 2011; (4): October 6, 2011</u>					
4. A. Patent Application No. <u>13/520,502</u>					
B. Patent No.(s)					
Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
C. Title of Application: <u>CONTROL DEVICE FOR INTERNAL COMBUSTION ENGINE</u>					
5. Name and address of party to whom correspondence concerning document should be mailed: Name: <u>James A. Oliff</u> 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: <u>1</u> 7. Please charge Deposit Account No. 15-0461 the total fee (37 CFR 3.41) in the amount of <u>\$40.00</u> . 8. Credit any overpayment or charge any underpayment to deposit account number 15-0461.		
9. Statement and signature. <i>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.</i> <div style="display: flex; justify-content: space-between;"> <div style="width: 60%;">  _____ James A. Oliff, Registration No. 27,075 Justin T. Lingard, Registration No. 61,276 </div> <div style="width: 35%; text-align: right;"> Date: <u>July 3, 2012</u> </div> </div>					

CH \$40.00 150461 13520502

ASSIGNMENT

In consideration of the premises and other good and valuable consideration in hand paid, the receipt and sufficiency of which is hereby acknowledged, the undersigned,

- | | |
|------------------------------|-----------------------------|
| (1) <u>Satoshi YOSHIKAZI</u> | (2) <u>Shuntaro OKAZAKI</u> |
| (3) <u>Masashi SHIBAYAMA</u> | (4) <u>Kaoru SHOKATSU</u> |
| (5) <u>Hajime KAWAKAMI</u> | |

who have made a certain new and useful invention, hereby sell, assign and transfer unto

TOYOTA JIDOSHA KABUSHIKI KAISHA1. Toyota-cho, Toyota-shiAichi-ken, 471-8571JAPAN

its successors and assigns (hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100 in the invention entitled

CONTROL DEVICE FOR INTERNAL COMBUSTION ENGINE

for which an application for United States Letters Patent was executed on even date herewith,

and the undersigned hereby authorize and request the United States Commissioner of Patents and Trademarks to issue any and all United States Letters Patent which may be granted therefor and any and all extensions, divisions, reissues, substitutes, renewals, continuations, or continuations-in-part thereof, and the right to all benefits under the international Convention for the Protection of Industrial Property to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agree that the attorneys of record in said application shall hereafter act on behalf of said ASSIGNEE;

AND the undersigned hereby agree to transfer a like interest, and to render all necessary assistance in making application for and obtaining original, divisional, reissued or extended Letters Patent of the United States, upon request of the said ASSIGNEE, its successors, assigns and legal representatives, and without further remuneration, in and to any improvements, and applications for patent based thereon, growing out of or related to the said invention; and to execute any papers by the said ASSIGNEE, its successors, assigns and legal representatives, deemed essential to ASSIGNEE's full protection and title in and to the invention hereby transferred.

SIGNED on the dates indicated aside our signatures:

INVENTORS

DATE SIGNED

- | | |
|--|-------------------------|
| 1) <u>Satoshi Yoshikazi</u>
Name: Satoshi YOSHIKAZI | <u>October 5, 2011</u> |
| 2) <u>Shuntaro Okazaki</u>
Name: Shuntaro OKAZAKI | <u>October 11, 2011</u> |
| 3) <u>Masashi Shibayama</u>
Name: Masashi SHIBAYAMA | <u>October 17, 2011</u> |
| 4) <u>Kaoru Shokatsu</u>
Name: Kaoru SHOKATSU | <u>October 6, 2011</u> |
| 5) <u>Hajime Kawakami</u>
Name: Hajime KAWAKAMI | <u>October 11, 2011</u> |

PATENT

RECORDED: 07/03/2012

REEL: 028550 FRAME: 0595