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3-15-02

Attorney Docket No. 112304

To the Director of the U.S. Patent and Trademark Office: Please record the attached original document or copy thereof.

<p>1. A. Name of conveying parties: 1) Hiroki MATSUOKA 2) Souichi MATSUSHITA 3) Yukihiro TSUKASAKI 4) Kotaro HAYASHI 5) Shinobu ISHIYAMA</p> <p>B. Additional names of conveying parties attached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>2. A. Name and address of receiving party: TOYOTA JIDOSHA KABUSHIKI KAISHA 1, TOYOTA-CHO, TOYOTA-SHI, AICHI, 471-8571, JAPAN</p>
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<p>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 _____</p> <p>B. Execution Date: <u>March 4, 2002</u></p>	<p>B. Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
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<p>4. A. If this document is being filed together with a new application, the execution date of the application is: <u>March 4, 2002</u></p>		
<p>B. Patent Application No.(s) _____</p>	<p>C. Patent No.(s) _____</p>	<p>10084207</p>
<p>Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>		

<p>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 19928 Alexandria, VA 22320</p>	<p>6. Total number of applications and patents involved: <u>1</u></p> <p>7. A. Total fee (37 CFR 3.41).....\$ <u>40.00</u> B. Enclosed (Check No. <u>128820</u>)</p> <p>8. Credit any overpayment or charge any underpayment to deposit account number 15-0461.</p>
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03/21/2002 UEDUVIJE 00000189 10088207
02 FC:581 40.00 DP

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

Thomas J. Pardini
James A. Oliff Registration No. 27,075
Thomas J. Pardini Registration No. 30,411

Date: March 15, 2002

Total number of pages including cover sheet, attachments, and document: 3

Page 2

- 6) Yasuhiro OHTSUBO
- 7) Naofumi MAGARIDA
- 8) Masaaki KOBAYASHI
- 9) Daisuke SHIBATA
- 10) Akihiro NEGAMI
- 11) Tomihisa ODA
- 12) Yasuo HARADA
- 13) Tomoyuki ONO

ASSIGNMENT

- (1-8) *Insert Name(s) of Inventor(s)*
- (1) Hiroki MATSUOKA (9) Daisuke SHIBATA
 - (2) Souichi MATSUSHITA (10) Akihiro NEGAMI
 - (3) Yukihiro TSUKASAKI (11) Tomihisa ODA
 - (4) Kotaro HAYASHI (12) Yasuo HARADA
 - (5) Shinobu ISHIYAMA (13) Tomoyuki ONO
 - (6) Yasuhiro OHTSUBO (14) _____
 - (7) Naofumi MAGARIDA (15) _____ and
 - (8) Masaaki KOBAYASHI (16) _____

In consideration of the sum of one dollar (\$1.00) and other good and valuable considerations paid to each of the undersigned, the undersigned agree(s) 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) of 1, Toyota-cho, Toyota-shi, Aichi 471-8571, Japan

(hereinafter designated as the Assignee) the entire right, title and interest for the United States, its territories, dependencies and possessions, in the invention, and all applications for patent and any Letters Patent which may be granted therefor, known as

(11) *Insert Identification of Invention, such as Title, Case Number or Foreign Application Number* (11) EXHAUST EMISSION CONTROL DEVICE FOR AN INTERNAL COMBUSTION ENGINE (Case No. 112304)

for which the undersigned has (have) executed an application for patent in the United States of America

(12) *Insert Date of Signing of Application* (12) on March 4, 2002

(13) *Alternative identification for filed applications* (13) U.S. application Serial Number _____ filed March 15, 2002

1) The undersigned agree(s) to execute all papers necessary in connection with the application and any continuing or divisional applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

2) The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation or division thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.

3) The undersigned agree(s) 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) The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.

5) The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patents of the United States resulting from said application or any division or divisions or continuing applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed and will not execute, any agreement in conflict herewith.

6) The undersigned hereby grant(s) the firm of OLIFF & BERRIDGE the power to insert on this assignment any further identification which 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 March 4, 2002 Name of Inventor Hiroki Matsuoka (SEAL)
Hiroki MATSUOKA

Date March 4, 2002 Name of Inventor Souichi Matsushita (SEAL)
Souichi MATSUSHITA

Date March 4, 2002 Name of Inventor Yukihiro Tsukasaki (SEAL)
Yukihiro TSUKASAKI

Date March 4, 2002 Name of Inventor Kotaro Hayashi (SEAL)
 Kotaro HAYASHI

Date March 4, 2002 Name of Inventor Shinobu Ishiyama (SEAL)
 Shinobu ISHIYAMA

Date March 4, 2002 Name of Inventor Yasuhiko Ohtsubo (SEAL)
 Yasuhiro OHTSUBO

Date March 4, 2002 Name of Inventor Naofumi Magarida (SEAL)
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Date March 4, 2002 Name of Inventor Masaaki Kobayashi (SEAL)
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Date March 4, 2002 Name of Inventor Tomihisa Oda (SEAL)
 Tomihisa ODA

Date March 4, 2002 Name of Inventor Yasuo Harada (SEAL)
 Yasuo HARADA

Date March 4, 2002 Name of Inventor Tomoyuki Ono (SEAL)
 Tomoyuki ONO

Date _____ Name of Inventor _____ (SEAL)

Date _____ Name of Inventor _____ (SEAL)

Date _____ Name of Inventor _____ (SEAL)

This assignment should preferably be signed before: (a) a Notary Public if within the U.S.A. (b) a U.S. Consul if outside the U.S.A. If neither, then it should be signed before at least two witnesses who also sign here:

Date _____ Witness _____
 Date _____ Witness _____