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Attorney Docket No. 118738

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1. A. Name of conveying parties:
Tametoshi MIZUTA
Isao MATSUMOTO
Kazuhiko SHIRATANI
Shoji KATSUMATA
Keiji YOEDA
Makoto OGISO
Hideyuki NISHIDA
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,
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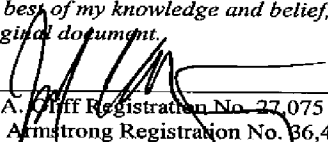
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 Yes No

3. A. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other _____
B. Execution Date: All-March 4, 2004

4. A. If this document is being filed together with a new application, the execution date of the application is: _____
B. Patent Application No. 10/488,616
C. Patent No.(s) _____
Additional numbers attached? Yes No

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 19928
Alexandria, VA 22320
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 3.41) 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 Registration No. 27,075
Joel S. Armstrong Registration No. 36,430
Date: April 2, 2004

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ASSIGNMENT

- (1-8) Insert Name(s) of Inventor(s)
 - (1) Tametoshi MIZUTA
 - (2) Isao MATSUMOTO
 - (3) Kazuhiko SHIRATANI
 - (4) Shoji KATSUMATA
 - (5) Keiji YOEDA
 - (6) Makoto OGISO
 - (7) Hideyuki NISHIDA
 - (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
- (10) Insert Address of Assignee
 - (9) TOYOTA JIDOSHA KABUSHIKI KAISHA
 - (10) 1, Toyota-cho, Toyota-shi, Aichi-ken, 471-8571 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) METHOD OF OPERATING INTARNAL COMBUSTION ENGINE INCLUDING ELECTROMAGNETICALLY DRIVEN INTAKE VALVES

(Attorney Docket No. _____) 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 _____

- (13) Alternative Identification for filed applications
 - (13) U.S. application Serial Number _____ filed _____

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 Director of Patents 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>March 4, 2004</u>	Inventor Signature	<u>Tametoshi Mizuta</u>	(SEAL)
Date	<u>March 4, 2004</u>	Inventor Signature	<u>Isao Matsumoto</u>	(SEAL)
Date	<u>March 4, 2004</u>	Inventor Signature	<u>Kazuhiko Shiratani</u>	(SEAL)
Date	<u>March 4, 2004</u>	Inventor Signature	<u>Shoji Katsumata</u>	(SEAL)
Date	<u>March 4, 2004</u>	Inventor Signature	<u>Keiji Yoeda</u>	(SEAL)
Date	<u>March 4, 2004</u>	Inventor Signature	<u>Makoto Ogiso</u>	(SEAL)
Date	<u>March 4, 2004</u>	Inventor Signature	<u>Hideyuki Nishida</u>	(SEAL)
Date	_____	Inventor Signature	_____	(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	<u>March 4, 2004</u>	Witness	<u>Yuichiro Hayase</u>
Date	<u>March 4, 2004</u>	Witness	<u>Shigeru Kishi</u>