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12-17-2001
Attorney Docket No. 109853

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

1. A. Name of conveying parties:
Makoto SUZUKI
Katuhiko ARISAWA
Masakazu TABATA

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-KEN, 471-8571 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 22, 2001

4. A. If this document is being filed together with a new application, the execution date of the application is: _____

B. Patent Application No. 09/883,352

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

6. Total number of applications and patents involved: 1

7. A. Total fee (37 CFR 3.41).....\$ 40.00

B. Enclosed (Check No. 125842)

8. Credit any overpayment or charge any underpayment to
deposit account number 15-0461.

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.

Date: December 12, 2001

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

Total number of pages including cover sheet, attachments, and document: 2

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PATENT
REEL: 012361 FRAME: 0802

ASSIGNMENT

Makoto SUZUKI

(1) _____ (5) _____
 (2) Katuhiko ARISAWA (6) _____
 (3) Masakazu TABATA (7) _____ and
 (4) _____ (8) _____

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

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

(9) Insert name of Assignee

(9) TOYOTA JIDOSHA KABUSHIKI KAISHA

(10) Insert address of Assignee (10) of

1, Toyota-cho, Toyota-shi, Aichi-ken,
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) INTERNAL COMBUSTION ENGINE INCLUDING HEAT ACCUMULATION SYSTEM, AND HEAT CARRIER SUPPLY CONTROL SYSTEM (Case No. _____)

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 October 22, 2001

(13) Alternative identification for filed applications

(13) U.S. application Serial Number 09/883,352
 filed June 19, 2001

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 October 22, 2001 Name of Inventor Makoto Suzuki (SEAL)
Makoto SUZUKI

Date October 22, 2001 Name of Inventor Katuhiko Arisawa (SEAL)
Katuhiko ARISAWA

Date October 22, 2001 Name of Inventor Masakazu Tabata (SEAL)
Masakazu TABATA

PATENT

RECORDED: 12/12/2001

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