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Attorney Docket No. 117586

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1. A. Name of conveying party:
Harufumi MUTO

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

3. A. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other _____

B. Execution Date: October 13, 2003

B. Additional name(s) & address(es) attached?
 Yes No

4. A. If this document is being filed together with a new application, the execution date of the application is: October 13, 2003

B. Patent Application No.(s) 10689991 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

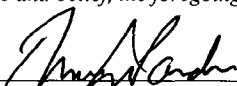
Address: **OLIFF & BERRIDGE, PLC**
P.O. Box 19928
Alexandria, VA 22320

6. Total number of applications and patents involved: 1

7. A. Total fee (37 CFR 3.41).....\$ 40.00
B. Enclosed (Check No. 147595)

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: October 22, 2003

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

10/30/2003 L MUELLER 00000248 10689991

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

16834 U.S. PTO
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U.S. ASSIGNMENT

IN CONSIDERATION of the sum of One Dollar (\$1.00), and of other good and valuable consideration paid to the undersigned inventor(s) (hereinafter "ASSIGNOR") by

TOYOTA JIDOSHA KABUSHIKI KAISHA

VEE's
)
(es))

1, Toyota-cho, Toyota-shi, Aichi-ken, 471-8571 Japan

(hereinafter "ASSIGNEE"), the receipt of which is hereby acknowledged, the undersigned ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest to the invention entitled

f
)n)

A DEVICE FOR ESTIMATING AN AMOUNT OF INTAKE AIR OF AN INTERNAL
COMBUSTION ENGINE

relating to International Patent Application PCT/JP _____/_____ and/or for which application for Letters Patent of the United States was executed on even date herewith or, if not so executed, was:

late
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(a) executed on _____ ;
(b) filed on _____ ;
Serial No. _____ / _____ ;

_____) is hereby authorized to insert in (b) the specified data, when known.

and to said application and all Letters Patent(s) of the United States granted on said application and any continuation, division, renewal, substitute, reissue or reexamination application based thereon, for the full term or terms for which the said Letters Patent(s) may be granted and including any extensions thereof (collectively, hereinafter, "said application(s) and Letters Patent(s)").

The ASSIGNOR agree(s), when requested by said ASSIGNEE and without charge to but at the expense of said ASSIGNEE, to do all acts which the ASSIGNEE may deem necessary, desirable or expedient, for securing, maintaining and enforcing protection for said invention, including in the preparation and prosecution of said application(s) and the issuance of said Letters Patent(s), in any interference, reissue, reexamination, or public use proceeding, and in any litigation or other legal proceeding which may arise or be declared in relation to same, such acts to include but not be limited to executing all papers, including separate assignments and declarations, taking all rightful oaths, providing sworn testimony, and obtaining and producing evidence.

IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s).

1)	<u>Harufumi Mito</u> (SIGNATURE)	<u>Harufumi Mito</u> (TYPE NAME)	<u>October 13 / 2003</u> (DATE)
2)	_____ (SIGNATURE)	_____ (TYPE NAME)	_____ (DATE)
3)	_____ (SIGNATURE)	_____ (TYPE NAME)	_____ (DATE)
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