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Masanori TAKAHASHI
Kouji TOYOSHIMA
Takeshi INOUCHI
Shinya HIROTA
Takamitsu ASANUMA

B. Additional name(s) of conveying party(ies) attached?
☐ Yes ☒ No

2. A. Name and address of receiving party(ies):

TOYOTA JIDOSHA KABUSHIKI KAISHA
1, TOYOTA-CHO, TOYOTA-SHI
AICHI-KEN, JAPAN, 471-8571

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

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B. Execution Date: May 30, 2003 - All

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

B. Patent Application No.(s) 10/440,310

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
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6. Total number of applications and patents involved: 17. Please charge Deposit Account No. 15-0461 the total fee (37 CFR 3.41) in the amount of \$40.00.

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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
Thomas J. Pardini Registration No. 30,411

Date: September 22, 2003

CH \$40.00 150461 10440310

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

(Insert
ASSIGNEE's
Name(s)
Address(es))

TOYOTA JIDOSHA KABUSHIKI KAISHA

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

(Title of
Invention)

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relating to International Patent Application PCI/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:

(Insert date
of execution
of application,
if not
concurrent)

(a) executed on _____;
(b) filed on May 19, 2003
Serial No. 10 / 440,310;

(Cliff & Berridge, PLC
Virginia 22314
U.S.A.) 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).

(Signatures)

1) <u>Masanori Takahashi</u> (SIGNATURE)	<u>Masanori Takahashi</u> (TYPE NAME)	<u>May 30, 2003</u> (DATE)
2) <u>Kouji Toyoshima</u> (SIGNATURE)	<u>Kouji Toyoshima</u> (TYPE NAME)	<u>May 30, 2003</u> (DATE)
3) <u>Takeshi Inoguchi</u> (SIGNATURE)	<u>Takeshi Inoguchi</u> (TYPE NAME)	<u>May 30, 2003</u> (DATE)
4) <u>Shinya Hirota</u> (SIGNATURE)	<u>Shinya Hirota</u> (TYPE NAME)	<u>May 30, 2003</u> (DATE)
5) <u>Takamitsu Asanuma</u> (SIGNATURE)	<u>Takamitsu Asanuma</u> (TYPE NAME)	<u>May 30, 2003</u> (DATE)