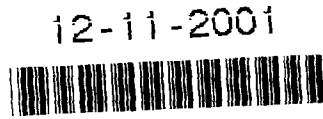
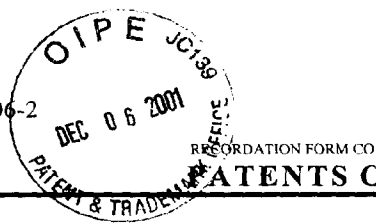


Atty Docket No.: 0213-1406-2

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Satoru WATANABE, Hiroki ICHINOSE,
Masanobu KANAMARU and Yasuyuki IRISAWA
Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies):
Name: TOYOTA JIDOSHA KABUSHIKI KAISHA
Address: 1, Toyota-cho, Toyota-shi,
Aichi-ken, 471-8571 Japan

3. Nature of Conveyance:
 Assignment Merger
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 Other

Execution Date: January 24, 2000

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4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: N/A

A. Patent Application No.(s)
09/493,602

B. Patent No.(s)

Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:



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7. Total fee (37 CFR 3.41): \$40.00
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Assignment Of Application

WHEREAS, I (WE) Satoru Watanabe, Hiroki Ichinose, Masanobu Kanamaru
and Yasuyuki Irisawa of Susono-shi, Shizuoka-ken, Japan, Fuji-shi,
Shizuoka-ken, Japan, Misima-shi, Shizuoka-ken, Japan and Susono-shi,
Shizuoka-ken, Japan

INSERT NAMES
 AND RESIDENCE
 ADDRESSES OF
 THE INVENTORS:

 _____, respectively,

INSERT TITLE
 OF INVENTION:

have invented certain new and useful improvements in: _____
 _____,

INSERT DATE IN-
 VENTORS SIGNED
 DECLARATION:

for which an application for Letters Patent was executed on January 24, 2000
 (Application No. 09/493,602, filed January 28, 2000), and

INSERT NAME
 AND ADDRESS OF
 COMPANY OR
 OTHER ASSIGNEE:

WHEREAS, TOYOTA JIDOSHA KABUSHIKI KAISHA
 (hereinafter referred to as "ASSIGNEE") having a place of business at: _____
1, Toyota-cho, Toyota-shi, Aichi-ken, 471-8571 Japan,
 is desirous of acquiring the entire right, title and interest in and to said invention and in and to any
 Letters Patent that may be granted therefore in the United States and its territorial possessions and in
 any and all foreign countries;

NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I (WE), by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.

I (WE) hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my (our) entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its (his) successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me (us) had this Assignment and sale not been made.

Further, I (WE) agree that I (WE) will communicate to said ASSIGNEE or its (his) representatives any facts known to me (us) respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letter Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.

The undersigned hereby grant(s) the firm of Oblon, Spivak, McClelland, Maier & Neustadt, P.C. of Fourth Floor, 1755 Jefferson Davis Highway, Arlington, Virginia 22202 the power to insert on this assignment any further identification, including the application number and filing date, 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.

Date: January 24, 2000

Satoru Watanabe
(Signature of Inventor) Satoru WATANABE

Date: January 24, 2000

Hiroki Ichinose
(Signature of Inventor) HIROKI ICHINOSE

Date: January 24, 2000

Masanobu Kanamaru
(Signature of Inventor) Masanobu KANAMARU

Date: January 24, 2000

Yasuyuki Irisawa
(Signature of Inventor) Yasuyuki IRISAWA

Date: _____

(Signature of Inventor)

Date: _____

(Signature of Inventor)

Date: _____

(Signature of Inventor)

Date: _____

(Signature of Inventor)

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