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To the Director of the United States Patent and Trademark Office: Please record the attached original documents or copies thereof.

## 1. Name of conveying party(ies):

Hajime MIURA January 25, 2002  
Makoto YASUNAGA January 24, 2002

2-12-02

Additional conveying party(ies) NO

## 3. Nature of conveyance:

ASSIGNMENT

Execution Date:

See above

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

NISSAN MOTOR CO., LTD.  
2, Takara-cho, Kanagawa-ku,  
Yokohama-shi, Kanagawa 221-0023,  
Japan

1002 U.S. PTO  
10/072913  
02/12/02

Additional name(s) &amp; address(es) attached? NO

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

If this is being filed together with a new application, the execution date of the application is: January 24, 2002 and January 25, 2002

A. Patent Application Number(s):

10,072913

B. Patent Number(s):

Additional numbers attached? NO

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

Richard L. Schwaab  
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## 6. Total number of applications/patents involved: 1

7. Total fee (37 C.F.R. § 3.41): \$40.00

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Charge to deposit account

8. Deposit account number: 19-0741

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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. The Commissioner is hereby authorized to charge any additional recordation fees which may be required in this matter to the above-identified deposit account.

Richard L. Schwaab

FEB 12 2002

Name of person signing

Signature

Date

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

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002.704778.1

PATENT  
REEL: 012583 FRAME: 0943

## ASSIGNMENT

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each undersigned inventor has sold and assigned, and by these presents hereby sells and assigns, unto

name and  
address of  
assignee

NISSAN MOTOR CO., LTD.  
2, Takara-cho, Kanagawa-ku, Yokohama-shi,  
Kanagawa 221-0023 Japan

(hereinafter ASSIGNEE) all right, title and interest for the United States, its territories and possessions in and to his invention relating to

title of  
invention

INTERNAL COMBUSTION ENGINE

as set forth in his/her United States Patent Application

check one

( X ) executed concurrently herewith  
( ) executed on \_\_\_\_\_  
( ) Serial No. \_\_\_\_\_ Filed \_\_\_\_\_

in and to said United States Patent Application including any and all divisions or continuations and Convention applications based in whole or in part on said invention or upon said application, including the right to make applications for Letters Patents throughout the world in respect to the invention and to claim priority under the International Convention for the Protection of Industrial Property, and in and to any and all Letters Patent of any country which may issue on any such application or for said invention, including any and all reissues, reexaminations, or extensions, to be held and enjoyed by said ASSIGNEE, its successors, legal representatives and assigns to the full end of the term or terms for which any and all such Letters Patent may be granted as fully and entirely as would have been held and enjoyed by the undersigned had this Assignment not be made;

Each of the undersigned hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all such Letters Patent to said ASSIGNEE, its successors or assigns in accordance herewith;

Each of the undersigned warrants and covenants that he/she has the full and unencumbered right to sell and assign the interests herein sold and assigned and that he/she has not executed and will not execute any document or instrument in conflict herewith;

Each of the undersigned further covenants and agrees that at any time upon request of said ASSIGNEE, its successors, legal representatives or assigns he/she will communicate to said ASSIGNEE, its successors, legal representatives or assigns all information known to him/her relating to said invention or patent application and that he/she will execute and deliver any papers, make all rightful oaths, testify in any legal proceedings and perform all other lawful acts deemed necessary or desirable by said ASSIGNEE, its successors, legal representatives or assigns to perfect title to said invention, to said application including divisions and continuations thereof and to any and all Letters Patent which may be granted therefor or thereon, including reissues, reexaminations, or extensions, in said ASSIGNEE, its successors, or assigns or to assist said ASSIGNEE, its successors, legal representatives or assigns in obtaining, reissuing or enforcing Letters Patent of the United States for said invention;

Each of the undersigned hereby grants the firm of **Foley & Lardner** the power to insert in this Assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

names and  
signatures  
of  
inventors

Hajime Miura date 1/25/2002  
Name: Hajime Miura

Makoto Yasunaga date 1/24/2002  
Name: Makoto Yasunaga

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Name: \_\_\_\_\_ date \_\_\_\_\_

\_\_\_\_\_  
Name: \_\_\_\_\_ date \_\_\_\_\_