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original documents or copy thereof.

To the Assistant Commissioner

1. Name of conveying party(ies):  
Takeshi SHIMIZU  
Mitsuru KOIWA  
Yutaka OHASHI  
Additional name(s) of conveying party(ies) attached?  
 yes  no

2. Name and address of receiving party(ies)?  
MITSUBISHI DENKI KABUSHIKI KAISHA  
2-3, Marunouchi 2-chome  
Chiyoda-ku, Tokyo 100-8310  
JAPAN



3. Nature of Conveyance:  
 Assignment  Merger  
 Security Agreement  Change of Names  
 Other

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 yes  no

Execution Date: January 25, 26, & 27, 2000

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: January 25, 26, & 27, 2000

A. Patent Application No.(s)

B. Patent No.(s)

*09/499344*

Additional numbers attached?  Yes  No

5. Name and address of party to whom correspondence concerning document should be mailed:  
SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC  
2100 Pennsylvania Avenue, N.W.  
Suite 800  
Washington, D.C. 20037-3213

6. Total number of applications and registration involved:  
1  
7. Total Fee (37 CFR 3.41): \$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.

*Robert J. Seas, Jr.*  
Robert J. Seas, Jr.

Reg. No. 21,092

February 8, 2000

Date

TOTAL NUMBER OF PAGES COMPRISING COVER SHEET, ATTACHMENTS AND DOCUMENT: 2

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ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00), and other good and valuable consideration, the receipt of which is hereby acknowledged, the undersigned, Takeshi SHIMIZU, Mitsuru KOIWA and Yutaka OHASHI

hereby sells, assigns and transfers to

MITSUBISHI DENKI KABUSHIKI KAISHA  
of 2-3, Marunouchi 2-chome, Chiyoda-ku, TOKYO 100-8310 JAPAN

(hereinafter called the Assignee), its successors and assigns, the entire right, title, and interest in and to:

- (i) the application for United States Letters Patent entitled COMBUSTION STATE DETECTING APPARATUS FOR INTERNAL COMBUSTION ENGINE which was executed by the undersigned on the dates indicated below or was filed on \_\_\_\_\_ and accorded Serial No. \_\_\_\_\_ (hereinafter called the Application);
- (ii) any and all inventions and improvements which are described in the Application;
- (iii) any and all United States Letters Patents which may be granted on the Application (hereinafter called Patent);
- (iv) any and all divisions, continuations, substitutes, reexaminations, reissues, or extensions of the Application or Patent; and
- (v) all benefits under the International Convention for the Protection of Industrial Property.

Said Assignee of said patent application and the attorneys appointed to prosecute said patent application are authorized to insert in this instrument the filing date and serial number of said application.

The Commissioner of Patents and Trademarks is authorized to issue any and all of said Letters Patent, when granted, to said Assignee.

Further, it is agreed that, when requested, without charge to but at the expense of said Assignee, the undersigned will execute all divisional, continuing, substitute, or reissue patent applications; execute all additional assignments and other writings, including reexamination papers; and provide all reasonable assistance requested by the Assignee to secure and maintain appropriate patent protection.

INVENTOR(S):

DATE:

(Takeshi SHIMIZU) Takeshi SHIMIZU

January 27, 2000

(Mitsuru KOIWA) Mitsuru Koiwa

January 27, 2000

(Yutaka OHASHI) Yutaka Ohashi

January 27, 2000