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To the Assistant Comm

Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):  
Tosiaki YONEKURA  
Hideaki KATASHIBA  
Satoshi WACHI  
Hirofumi OHUCHI  
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  
  
Additional name(s) & address(es) attached?  
 yes  no

jc678 U.S. PTO  
09/456504  
12/08/99

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


Execution Date: November 11, 1999

4. Application number(s) or patent number(s): 09/456504  
If this document is being filed together with a new application, the execution date of the application is: November 11, 1999  
A. Patent Application No.(s) B. Patent No.(s)  
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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8. Deposit Account No. 19-4880

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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. Reg. No. 21,092 December 8, 1999 Date

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12/28/1999 DNGUYEN 00000074 09/456504  
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# Assignment

For value received, the undersigned (hereinafter assignor), hereby sells, assigns, and transfers to \_\_\_\_\_  
MITSUBISHI DENKI KABUSHIKI KAISHA \_\_\_\_\_ a corporation of Japan,  
having a place of business at 2-3, Marunouchi 2-chome, Chiyoda-ku,  
TOKYO 100-8310 JAPAN \_\_\_\_\_, its successors,  
assigns, and legal representative (hereinafter assignee),

(a) assignor's entire right, title, and interest in and to the invention which is disclosed in the application for United States patent, which has been executed concurrently herewith, and is entitled AN AIR FUEL RATIO CONTROL APPARATUS FOR AN INTERNAL COMBUSTION ENGINE \_\_\_\_\_ invented by assignor,

(b) said application and any other applications which are continuations, continuation-in-part, substitutes, or divisions of said application, and

(c) any patent or reissues of any patent that may granted thereon.

Assignor authorizes and requests the Commissioner of Patents and Trademarks to issue any resulting patents to assignee.

Tosiaki YONEKURA	<i>Tosiaki YONEKURA</i>	November 11, 1999
Name	Signature	Date
Hideaki KATASHIBA	<i>Hideaki Katashiba</i>	November 11, 1999
Name	Signature	Date
Satoshi WACHI	<i>Satoshi Wachi</i>	November 11, 1999
Name	Signature	Date
Hirofumi OHUCHI	<i>Hirofumi Ohuchi</i>	November 11, 1999
Name	Signature	Date
_____	_____	_____
Name	Signature	Date
_____	_____	_____
Name	Signature	Date