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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):
Yasuhiro TAKAHASHI
Koichi OKAMURA

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

J1046 U.S. PTO
10/273259
10/18/02

Additional name(s) of conveying party(ies) attached? Yes No

3. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other

Execution Date: October 10, 2002

Additional name(s) & address(es) attached? Yes No

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: October 10, 2002
A. Patent Application No.(s)

B. Patent No.(s) 10/273259
Additional numbers attached? Yes No

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

6. Total number of applications and patents involved: 1
7. Total fee (37 CFR 3.41): \$40.00
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The USPTO is directed and authorized to charge all required fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any overpayments to said Deposit Account.
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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.

Darryl Mexic Reg. No. 23,063 October 18, 2002 Date

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

Mail documents to be recorded with required cover sheet information to:
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10/25/2002 GTOM11 00000102 10273259
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PATENT
REEL: 013419 FRAME: 0970

ASSIGNMENT

Whereas, we Yasuhiro TAKAHASHI and Koichi OKAMURA
both of Tokyo, Japan

hereinafter called assignor(s), have invented certain improvements in

MISFIRE DETECTION APPARATUS OF INTERNAL COMBUSTION ENGINE
and executed an application for Letters Patent of the United States of America therefor on

October 10, 2002; and

Whereas, MITSUBISHI DENKI KABUSHIKI KAISHA of
2-3, Marunouchi 2-chome, Chiyoda-ku, Tokyo 100-8310 Japan

(assignee), desires to acquire the entire right, title and interest in the application and invention, and to
any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

I/We, the above named assignor(s), hereby sell, assign and transfer to the above named
assignee, its successors and assigns, the entire right, title and interest in the application and the
invention disclosed therein for the United States of America, including the right to claim priority under
35 U.S.C. § 119, and I/we request the Director - U.S. Patent and Trademark Office to issue any
Letters Patent granted upon the invention set forth in the application to the assignee, its successors
and assigns; and I/we will execute without further consideration all papers deemed necessary by the
assignee in connection with the United States application when called upon to do so by the assignee.

I/We hereby authorize and request my/our attorneys SUGHRUE MION, PLLC of 2100
Pennsylvania Avenue, N.W., Washington, D.C. 20037-3213 to insert here in parentheses
(Application number _____, filed _____) the filing date and
application number of said application when known.

Date: October 10, 2002 s/ Yasuhiro Takahashi
Yasuhiro TAKAHASHI

Date: October 10, 2002 s/ Koichi Okamura
Koichi OKAMURA

Date: s/ _____

Date: s/ _____

Date: s/ _____

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. §261)