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1. Name of conveying party(ies):

Takayoshi ATSUMI
Hiroshi ISOMURA
Keita NAKAGAWA
Toru FURUICHI
Takao KOJIMA

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

NGK SPARK PLUG CO., LTD.
14-18, Takatsuji-cho,
Mizuho-ku, Nagoya-shi,
Aichi, JapanAdditional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other

Execution Date: October 3, 2005, October 3, 2005,
October 3, 2005, October 3, 2005 and October 3, 2005,
respectivelyAdditional 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:

A. Patent Application No.(s)
11/185,681

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, PLLC

WASHINGTON OFFICE

23373

CUSTOMER NUMBER

6. Total number of applications and patents involved:

1

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

- ☒ Enclosed.
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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.

Abraham J. Rosner

Reg. No. 33,276

October 11, 2005

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PATENT
REEL: 017093 FRAME: 0398

ASSIGNMENT

Whereas, I/we Takayoshi ATSUMI of Aichi, Japan
 Hiroshi ISOMURA of Aichi, Japan
 Keita NAKAGAWA of Gifu, Japan
 Toru FURUICHI of Aichi, Japan
 Takao KOJIMA of Aichi, Japan

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

GAS SENSOR AND METHOD FOR MANUFACTURING THE SAME

and executed an application for Letters Patent of the United States of America therefor on

October 3, 2005 ; and

Whereas, NGK SPARK PLUG CO., LTD.

14-18, Takatsuji-cho, Mizuho-ku, Nagoya-shi, Aichi, 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 11/185,681, filed July 21, 2005) the filing date and application number of said application when known.

Date: October 3, 2005 s/ Takayoshi Atsumi

Date: October 3, 2005 s/ Hiroshi Isomura

Date: October 3, 2005 s/ Keita Nakagawa

Date: October 3, 2005 s/ Toru Furuichi

Date: October 3, 2005 s/ Takao Kojima

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