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

1. Name of conveying party(ies):

Takayoshi Atsumi
Koji Shiono

Additional names(s) of conveying party(ies) ☐ Yes ☒ No

3. Nature of conveyance:

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

Execution Date: February 23, 1999

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

Name: NGK SPARK PLUG CO., LTD.

Internal Address: _____

Street Address: 4-3-17, Ohai, Naka-ku

Nagoya, JAPAN 460

City: _____ State: _____ ZIP: _____

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

4. Application number(s) or registration numbers(s):

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No.(s)

09/249,370

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: David D. Murray

Internal Address: Brinks Hofer Gilson & Lione

Street Address: 1130 Edison Plaza

03/31/1999 DHSUYEN 00000092 09249370

01 FC:581

40.00 DP

City: Toledo

State: OH ZIP: 43604

6. Total number of applications and patents involved: 1

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

☒ Enclosed - Any excess or insufficiency should be credited or debited to deposit account

☐ Authorized to be charged to deposit account

8. Deposit account number:

23-1925

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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.

David D. Murray

Name of Person Signing

Signature

March 22, 1999

Date

Total number of pages including cover sheet, attachments, and document: 3

PATENT
REEL: 9847 FRAME: 0422

ASSIGNMENT

KNOW ALL MEN BY THESE PRESENTS THAT WE, Takayoshi Atsumi residing at Komaki-shi, Aichi, Japan and Koji Shiono residing at Komaki-shi, Aichi, Japan for good and valuable consideration given by NGK SPARK PLUG CO., LTD., a corporation duly organized and existing under and by virtue of the laws of Japan, have sold, assigned, granted, and conveyed, and by these presents do hereby sell, assign, grant, and convey unto the said NGK SPARK PLUG CO., LTD., all right, title, and interest for the territory of the United States, dependencies and possessions of the United States, and all foreign countries, in and to a certain invention entitled GAS SENSOR ELEMENT AND METHOD FOR MANUFACTURING THE ELEMENT, more fully shown and described in an application for Letters Patent of the United States, and also all right, title, and interest in, to, and under any and all Letters Patent which may be granted therefor and all divisions, reissues, continuations, and extensions thereof.

TO HAVE AND TO HOLD to the said NGK SPARK PLUG CO., LTD., its successors or assigns, for its or their own use and behalf.

We hereby covenant that we have the full right to sell, assign, grant, and convey the interest herein assigned and we agree that at NGK SPARK PLUG CO., LTD.'s expense that we will communicate to said NGK SPARK PLUG CO., LTD., or its representatives, any facts known to ourselves respecting said invention and testify in any legal proceeding, sign all lawful papers, execute all foreign, divisional, continuing, and reissue applications, make all rightful oaths, and generally do everything possible to aid said NGK SPARK PLUG CO., LTD., its successors, assigns, and nominees to obtain and enforce proper patent protection for said invention in the United States, its dependencies and possessions, and all foreign countries, and we hereby authorize and request the Commissioner of Patents to issue all United States Letters Patent which may be granted upon said application or resulting from said invention to the said NGK SPARK PLUG CO., LTD., as assignee.

The undersigned hereby grants the firm of BRINKS HOFER GILSON & LIONE the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my seal this

23 day of February, 1999.

Takayoshi Atsumi

Takayoshi Atsumi

March 1, 1999
Date

Hiroshi Imai
Witness HIROSHI IMAI

Date

Witness

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my seal this

23 day of February, 1999.

Koji Shiono

Koji Shiono

Feb. 26, 1999
Date

Fumihisa Kito
Witness

Date

Witness