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To the Honorable Commissioner of

checked original documents or copy thereof.
of receiving party(ies):

1. Name of conveying party(ies):
Takao KOJIMA
Keisuke MAKINO
Shinya AWANO
Additional name(s) of conveying party(ies) attached? Yes No

102389264

NGK SPARK PLUG CO., LTD.
14-18 Takatsuji-cho, Mizuho-ku,
Nagoya, Aichi, Japan

2.27.03

JC979 U.S. PTO
10/374056
02/27/03

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

Execution Date: February 25, 2003

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: February 25, 2003
A. Patent Application No.(s)
NOT YET ASSIGNED

10374056

B. Patent No.(s)
NOT YET ASSIGNED

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
PATENT TRADEMARK OFFICE

6. Total number of applications and patents involved:
1
7. Total fee (37 CFR 3.41): \$40.00
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Abraham J. Rosner Reg. No. 33,276 February 27, 2003 Date

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01 FC:8021 40.00 DP

Assignment

Whereas, I/We, Takao KOJIMA, Keisuke MAKINO, and Shinya AWANO, c/o NGK SPARK PLUG CO., LTD., 14-18 Takatsuji-cho, Mizuho-ku, Nagoya, Aichi, Japan, respectively, hereinafter called assignor(s), have invented certain improvements in PRISMATIC CERAMIC HEATER FOR HEATING GAS SENSOR ELEMENT, PRISMATIC GAS SENSOR ELEMENT IN MULTILAYERED STRUCTURE INCLUDING THE THE PRISMATIC CERAMIC HEATER, AND METHOD FOR MANUFACTURING THE PRISMATIC CERAMIC HEATER AND PRISMATIC GAS SENSOR ELEMENT and executed an application for Letters Patent of the United States of America therefor on _____; and

Whereas, NGK SPARK PLUG CO., LTD., 14-18 Takatsuji-cho, Mizuho-ku, Nagoya, 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 our attorneys SUGHRUE MION, PLLC of 2100 Pennsylvania Avenue, NW, Washington, DC 20037-3213 to insert here in parentheses (Application number _____ and Confirmation number _____, filed _____) the application number and filing date of said application when known.

Date: 25. Feb. '03 Takao Kojima
s/Takao KOJIMA

Date: 25. Feb. '03 Keisuke Makino
s/Keisuke MAKINO

Date: 25. Feb. '03 Shinya Awano
s/Shinya AWANO

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