



07-17-2003

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Form PTO-1595 (modified) (Rev. 03/01) OMB No. 0651-0027

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To the Director of the U.S. Patent and Trademark Office: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies): Hideki ISHIKAWA Yoshikuni SATO Yeigo BANNO Masashi SAKAMOTO Noboru ISHIDA Takafumi OSHIMA

2. Name and address of receiving party(ies): NGK SPARK PLUG CO., LTD. 14-18 Takatsuji-cho, Mizuho-ku Nagoya, Aichi JAPAN

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

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

Execution Date: June 27, 2003, June 30, 2003, June 30, 2003, June 30, 2003, June 27, 2003, and June 27, 2003, respectively

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: A. Patent Application No.(s) 10/409,587

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 PATENT TRADEMARK OFFICE

6. Total number of applications and patents involved: 1 7. Total fee (37 CFR 3.41): \$40.00 Enclosed. Authorized to be charged to Deposit Account No. 19-4880. 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. 8. Deposit Account Number: 19-4880 (Attach duplicate copy of this page if paying by deposit account)

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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. Abraham J. Rosner Reg. No. 33,276 July 14, 2003 Date

Total number of pages including cover sheet, attachments, and documents: 2 Mail documents to be recorded with required cover sheet information to: MAIL STOP ASSIGNMENT RECORDATION SERVICES Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450

Assignment

Whereas, I/We, Hideki ISHIKAWA, Yoshikuni SATO, Keigo BANNO, Masashi SAKAMOTO, Noboru ISHIDA, Takafumi OSHIMA of 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 SENSOR AND METHOD FOR MANUFACTURING THE SAME 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 of the 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 10/409,587 and Confirmation number 6880, filed April 9, 2003) the application number and filing date of said application when known.

Date: June 27, 2003 Hideki Ishikawa
s/Hideki ISHIKAWA

Date: June 30, 2003 Yoshikuni Sato
s/Yoshikuni SATO

Date: June 30, 2003 Keigo Banno
s/Keigo BANNO

Date: June 30, 2003 Masashi Sakamoto
s/Masashi SAKAMOTO

Date: June 27, 2003 Noboru Ishida
s/Noboru ISHIDA

Date: June 27, 2003 Takafumi Oshima
s/Takafumi OSHIMA

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