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1. Name of conveying party(ies):

Akifumi TOSA  
Jun OTSUKA  
Manabu SATO  
Hisahito KASHIMA

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: September 2, 2004

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: September 2, 2004

A. Patent Application No.(s)

Not yet assigned

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

CUSTOMER NUMBER

6. Total number of applications and patents involved:

1

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

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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

September 8, 2004

Date

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PATENT  
REEL: 015777 FRAME: 0879

## Assignment

Whereas, I/We, Akifumi TOSA, Jun OTSUKA, Manabu SATO and Hisahito KASHIMA 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 METHOD FOR PRODUCING CERAMIC SUBSTRATE, AND CERAMIC SUBSTRATE 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 \_\_\_\_\_ and Confirmation number \_\_\_\_\_, filed \_\_\_\_\_) the application number and filing date of said application when known.

Date: September 2, 2004 Akifumi Tosa  
s/Akifumi TOSA

Date: September 2, 2004 Jun Otsuka  
s/Jun OTSUKA

Date: September 2, 2004 Manabu Sato  
s/Manabu SATO

Date: September 2, 2004 Hisahito Hashima  
s/Hisahito KASHIMA

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