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## 1. Name of conveying party(ies):

Takaya YOSHIKAWA  
Hiroyuki SUZUKI  
Shinsuke ITO  
Shinya MURAKOSHI  
4/20/04

## 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: July 1, 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:

A. Patent Application No.(s)  
10/819,183B. Patent No.(s)  
not yet assignedAdditional 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.

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August 20, 2004

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PATENT  
REEL: 015712 FRAME: 0720

# ASSIGNMENT

Whereas, I/we

Takaya YOSHIKAWA, Hiroyuki SUZUKI, Shinsuke ITO and Shinya MURAKOSHI;  
all of Aichi, Japan

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

HEATER

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

July 1, 2004 ; 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 10/819,183, filed April 7, 2004) the filing date and application number of said application when known.

Date: July 1, 2004

s/ Takaya Yoshikawa

Date: July 1, 2004

s/ Hiroyuki Suzuki

Date: July 1, 2004

s/ Shinsuke Ito

Date: July 1, 2004

s/ Shinya Murakoshi

Date:

s/ \_\_\_\_\_

Date:

s/ \_\_\_\_\_

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

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PATENT  
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