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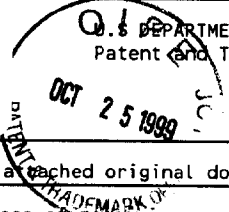
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To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):
Masashi ANDO

Additional name(s) of conveying party(ies) attached?
___ yes ___ ☒ no

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

Name:
NGK SPARK PLUG CO., LTD.
Internal Address:
14-18, Takatsuji-cho, Mizuho-ku, Nagoya, Aichi, Japan
Street Address:
Same as above

City State Zip

Additional name(s) & address(es) attached?
___ yes ___ ☒ no

3. Nature of Conveyance:

☒ Assignment ___ Merger
___ Security Agreement ___ Change of Name
___ Other

Execution Date: August 27, 1999

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)

09/370,924

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, ZINN, MACPEAK & SEAS
2100 Pennsylvania Avenue, N.W.
Suite 800
Washington, D.C. 20037-3202

6. Total number of applications and patents involved:
One (1)

7. Total Fee (37 CFR 3.41): \$ 40.00
___ ☒ Enclosed. Please charge any underpayment in connection with this Assignment to Deposit Account No. 19-4880.

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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.

Name Waddell A. Biggart Reg. No. 24,861

October 25, 1999
Date

TOTAL NUMBER OF PAGES INCLUDING COVER SHEET, ATTACHMENTS AND DOCUMENT: 2

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11/02/1999 TTDW11 00000090 09370924

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PATENT
REEL: 010347 FRAME: 0521

Assignment

Whereas, I/We, Masashi ANDO of c/o NGK SPARK PLUG CO., LTD.,
14-18 Takatsuji-cho, Mizuho-ku, Nagoya, Aichi, Japan

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

METHOD AND APPARATUS FOR MEASURING CONCENTRATION OF A
COMPONENT IN A GAS

and executed an application for Letters Patent of the United States of America therefor on
August 27, 1999 ; 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 Commissioner of Patents 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 attorneys SUGHRUE, MION, ZINN, MACPEAK & SEAS of
2100 Pennsylvania Avenue, N.W., Washington, D.C. 20037-3202 to insert here in parentheses (Application
number 09/370,924, filed August 10, 1999) the filing date and application
number of said application when known.

Date: 27. Aug. 99 s/ Masashi Ando
Masashi ANDO

Date: s/ _____

Date: s/ _____

Date: s/ _____

Date: s/ _____

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