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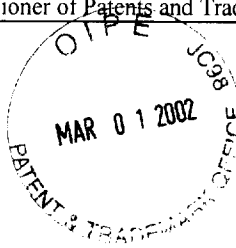
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U.S. DEPARTMENT OF COMMERCE
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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Hiroki TAKEUCHI
Toshifumi KOJIMA
Kazushige OBAYASHI
Hisahito KASHIMA



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

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

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

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other

NED

3/1/2

Execution Date: January 21, 2002

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)
10/025,764

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
2100 Pennsylvania Avenue, N.W.
Suite 800
Washington, D.C. 20037-3213

6. Total number of applications and patents involved:

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.
☐ Authorized to be charged to 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.

Mark Boland / Bruce E. Kamen
Mark Boland Reg. No. 33,725

Reg. No. 32,197

March 1, 2002

Date

Total number of pages including cover sheet, attachments, and documents: 2

Mail documents to be recorded with required cover sheet information to:

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03/06/2002 6TON11 00000241 10025764

01 FC:581

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PATENT
REEL: 012630 FRAME: 0503

Assignment

Whereas, I/We, Hiroki TAKEUCHI, Toshifumi KOJIMA, Kazushige OBAYASHI of
and Hisahito KASHIMA all of Aichi, Japan

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

EMBEDDING RESIN AND WIRING SUBSTRATE USING THE SAME

and executed an application for Letters Patent of the United States of America therefor on
January 21, 2002 ~~45~~ ; and

Whereas, NGK SPARK PLUG CO., LTD. of 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 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 10/025,764, filed December 26, 2001) the filing date and application
number of said application when known.

Date: January 21, 2002 s/ Hiroki Takeuchi

Date: January 21, 2002 s/ Toshifumi Kojima

Date: January 21, 2002 s/ Kazushige Obayashi

Date: January 21, 2002 s/ Hisahito Kashima

Date: s/ _____

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