

08-01-2001



101794716

Q63096

COMMERCE
mark Office

Form PTO-1595
1-31-92

RECORDATION FORM COVER SHEET
PATENTS ONLY

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

1. Name of conveying party(ies):
 Masahiro IBA
 Hisashi WAKAKO
 Kazuhisa SATO
 Haruhiko MURATA
 Kazuyuki TAKAHASHI
 Kenzo KAWAGUCHI
 Additional name(s) of conveying party(ies) attached?
 yes no

7-26-01

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

3. Nature of Conveyance:
 Assignment Merger
 Security Agreement Change of Names
 Other
 Execution Date: March 2, 2001, March 5, 2001, March 11, 2001, March 18, 2001, March 5, 2001 and March 5, 2001

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

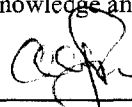
4. Application number(s) or patent number(s):
 If this document is being filed together with a new application, the execution date of the application is:
 A. Patent Application No.(s)/Confirmation No.(s)
 09/808,980/5108

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

6. Total number of applications and registration 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 No.
 19-4880

DO NOT WRITE IN THIS SPACE

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  July 26, 2001
 Reg. No. 33,276 Date

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

OMB No. 0651-0011 (exp. 4/94)

Do not detach this portion

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

Director - U.S. Patent and Trademark Office
Box Assignment
Washington, D.C. 20231

08/01/2001 TDI A21 00000058 09800980

01 EC:581 40.00 DP

Assignment

Whereas, I/We, Masahiro IBA, Hisashi WAKAKO, Kazuhisa SATO, Haruhiko MURATA, Kazuyuki TAKAHASHI and Kenzo KAWAGUCHI, 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 PRINTED-WIRING SUBSTRATE AND METHOD FOR FABRICATING 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 – 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, ZINN, MACPEAK & SEAS, PLLC of 2100 Pennsylvania Avenue, NW, Washington, DC 20037-3213 to insert here in parentheses (Application number _____ and Confirmation number _____, filed _____) the filing date and application number of said application when known.

Date: 03/02/2001 Masahiro Iba

s/Masahiro IBA

Date: 03/05/2001 Hisashi Wakako

s/Hisashi WAKAKO

Date: 03/11/2001 Kazuhisa Sato

s/Kazuhisa SATO

Date: 03/18/2001 Haruhiko Murata

s/Haruhiko MURATA

Date: 03/05/2001 Kazuyuki Takahashi

s/Kazuyuki TAKAHASHI

Date: 03/05/2001 Kenzo Kawaguchi

s/Kenzo KAWAGUCHI

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