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To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents on hand thereof.

11RD 5-16-00

10530 U.S. PTO  
09/572033

05/16/00

1. Name of conveying party(ies)  
 Kazuyuki MIZUNO, Takami HIRAI,  
 Yasuhiko MIZUTANI and Hiroyuki ARAI  
 Additional name(s) of conveying parties attached  No

2. Name and address of receiving party(ies):  
 Name: NGK Insulators, Ltd.  
 Address: 2-56, Suda-Cho, Mizuho-Ku,  
 Nagoya-City, Aichi-Prefecture, 467-8530  
 Japan

3. Nature of Conveyance:  
 Assignment       Merger  
 Security Agreement       Change of Name  
 Other  
 Execution Date May 11, 2000

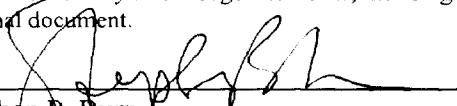
and  
 Name: Hiroyuki Arai  
 Address: 615-11, Imajukuhigashi-Cho, Asahi-Ku,  
 Yokohama-City, Kanagawa-Prefecture, 241-0032  
 Japan  
 Additional name(s) attached?  No

4. Application number(s) or patent number(s)  
 If this document is being filed together with a new application, the execution date of this application is May 11, 2000.  
 A. Patent Application No.(s)      B. Patent No.(s)  
 Additional Numbers attached?  No

5. Name and address of party to whom correspondence concerning this document should be mailed:  
 Name: **Stephen P. Burr**  
 Address: **WALL MARJAMA BILINSKI & BURR**  
 101 South Salina Street, Suite 400  
 Syracuse, NY 13202  
 Telephone: (315) 425-9000  
 Facsimile: (315) 425-9114

6. Total number of application and patents involved: 1  
 7. Total fee (37 CFR 3.4) \$40.00  
 Enclosed  
 Authorized to charge any deficiency or credit any over payment to Deposit Account No. 50-0289.

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8. 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.  
  
 Stephen P. Burr      May 16, 2000  
 Reg. No. 32,970      Date  
 Total Number of Pages Comprising Cover Sheet 3

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ASSIGNMENT

- (1-8) Insert Name(s) of Inventor(s) (1) Kazuyuki MIZUNO (5) \_\_\_\_\_
- (2) Takami HIRAI (6) \_\_\_\_\_
- (3) Yasuhiko MIZUTANI (7) \_\_\_\_\_
- (4) Hiroyuki ARAI (8) \_\_\_\_\_

In consideration of the sum of dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned, the undersigned agree(s) to assign, and hereby does assign, transfer and set over to

(9) Insert name of Assignee (9) NGK INSULATORS, LTD. and Hiroyuki ARAI

(10) Insert address of Assignee (10) 2-56, Suda-cho, Mizuho-ku, Nagoya-city, Aichi-pref. 467-8530, JAPAN  
and 615-11, Imajukuhigashi-cho, Asahi-ku, Yokohama-city, Kanagawa-pref.  
241-0032, JAPAN

(hereinafter designated as the Assignee) the entire right, title and interest for the United States, its territories, dependencies and possessions, in the invention, and all applications for patent and any Letters Patent which may be granted therefor, known as

(11) Insert Identification of Invention, such as Title, Case Number or Foreign Application Number (11) ANTENNA DEVICE

for which the undersigned have executed an application for patent in the United States of America

(12) Insert Date of Signing of Application (12) on May 11, 2000

(13) Alternative identification (13) U.S. Application(s) Serial Number(s) \_\_\_\_\_ for filed application(s) filed \_\_\_\_\_

1) The undersigned agree(s) to execute all papers necessary in connection with the application and any continuing or divisional applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

2) The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation or division thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.

3) The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

4) The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.

5) The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patents of the United States resulting from said application or any divisions or continuing applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed and will not execute, any agreement in conflict herewith.

6) The undersigned hereby grant(s) Stephen P. Burr, of WALL MARJAMA BILINSKI & BURR the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office recordation of this document.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date May 11, 2000 Signature *Kazuyuki Mizuno* (SEAL)  
Kazuyuki MIZUNO

Date May 11, 2000 Signature *Takami Hirai* (SEAL)  
Takami HIRAI

Date May 11, 2000 Signature *Yasuhiko Mizutani* (SEAL)  
Yasuhiko MIZUTANI

Date May 11, 2000 Signature *Hiroyuki Arai* (SEAL)  
Hiroyuki ARAI

Date \_\_\_\_\_ Signature \_\_\_\_\_ (SEAL)

Date \_\_\_\_\_ Signature \_\_\_\_\_ (SEAL)

Date \_\_\_\_\_ Signature \_\_\_\_\_ (SEAL)

Date \_\_\_\_\_ Signature \_\_\_\_\_ (SEAL)

This assignment should preferably be signed before: (a) a Notary Public if within the U.S.A. or (b) a U.S. Consul if outside the U.S.A. If neither, then it should be signed before at least two witnesses who also sign here:

Date May 11, 2000 Witness *Miyuki Tokairin*

Date May 11, 2000 Witness *Maki Goto*