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Form PTO 1595

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

1. Name of conveying party(ies)
Yukihisa TAKEUCHI, Tsutomu NANATAKI and
Koji KIMURA

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

Additional name(s) of conveying parties attached No

3. Nature of Conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other

Additional name(s) attached? No

Execution Date September 13, 2000

4. Application number(s) or patent number(s)

09/668324

If this document is being filed together with a NEW APPLICATION, the execution date of this application is September 13, 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: BURR & BROWN
P.O. Box 7068
Syracuse, NY 13261-7068
Telephone: (315) 233-8300
Facsimile: (315) 233-8320

6. Total number of application and patents involved: 1

7. Total fee (37 CFR 3.4) \$40.00

Enclosed
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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
Reg. No. 32,970

September 22, 2000

Date

Total Number of Pages Comprising Cover Sheet 3

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10542 U.S. PTO
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ASSIGNMENT

- (1-8) Insert Name(s) of Inventor(s) (1) Yukihisa TAKEUCHI (5) _____
- (2) Tsutomu NANATAKI (6) _____
- (3) Koji KIMURA (7) _____
- (4) _____ (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.
- (10) Insert address of Assignee (10) 2-56, SUDA-CHO, MIZUHO-KU, NAGOYA-CITY, AICHI-PREF. 467-8530, 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) PIEZOELECTRIC/ELECTROSTRICTIVE DEVICE AND METHOD OF MANUFACTURING
SAME
(Case No. _____)

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 _____
- (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 *BURR & BROWN* 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 September 13, 2000 Signature Yukihisa Takeuchi (SEAL)
Yukihisa TAKEUCHI

Date September 13, 2000 Signature Tsutomu Nanataki (SEAL)
Tsutomu NANATAKI

Date September 13, 2000 Signature Koji Kimura (SEAL)
Koji KIMURA

Date _____ Signature _____ (SEAL)

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 September 13, 2000 Witness Miyuki Tokairin

Date September 13, 2000 Witness Kuniko Psua