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U.S. Department of Commerce

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

<p>1. Name of conveying party(ies) <i>100-16-99</i></p> <p>Masashi Fukuyama and Kazutoshi Tohyama</p> <p>Additional name(s) of conveying parties attached <input checked="" type="checkbox"/> No</p>	<p>2. Name and address of receiving party(ies):</p> <p>Name: NGK Insulators, Ltd. Address: 2-56, Suda-cho, Mizuho-ku, Nagoya-City, Aichi-Pref., 467-8530 JAPAN</p>
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<p>3. Nature of Conveyance:</p> <p><input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other</p> <p>Execution Date <u>January 22, 1999</u></p>	<p>and</p> <p>Name: NGK Optoceramics Co., Ltd. Address: 2-56, Suda-cho, Mizuho-ku, Nagoya-City, Aichi-Pref., 467-8530 JAPAN</p> <p>Additional name(s) attached? <input checked="" type="checkbox"/> No</p>
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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 _____

A. Patent Application No.(s) B. Patent No.(s)

09/217,507 filed December 21, 1998

Additional Numbers attached? No

<p>5. Name and address of party to whom correspondence concerning this document should be mailed:</p> <p>Name: Stephen P. Burr</p> <p>Address: WALL MARJAMA BILINSKI & BURR 101 South Salina Street, Suite 400 Syracuse, NY 13202 Telephone: (315) 425-9000 Facsimile: (315) 425-9114</p>	<p>6. Total number of application and patents involved: <u>1</u></p> <p>7. Total fee (37 CFR 3.4) \$40.00</p> <p><input checked="" type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to charge any deficiency or credit any over payment to Deposit Account No. 50-0289.</p> <p>8. Charge Deposit account</p>
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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.

[Signature]

Stephen P. Burr
Reg. No. 32,970

February 10, 1999
Date

Total Number of Pages Comprising Cover Sheet 3

OMB NO 0651-0011(EXP. 4/94)

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WA-043-118

ASSIGNMENT

- (1) Masashi FUKUYAMA (5) _____
- (2) Kazutoshi TOHYAMA (6) _____
- (3) _____ (7) _____
- (4) _____ (8) _____

-8) Insert Name(s) of Inventor(s)

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 NGK Optoceramics Co., Ltd.

(10) Insert address of Assignee

(10) 2-56, Suda-cho, Mizuho-ku, Nagoya-city, Aichi-prefecture, 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) THERMALLY FUSED INTEGRAL FERRULE AND ITS MANUFACTURING METHOD, AND FIBER ARRAY MANUFACTURING METHOD
(Case No. 791 036 (WA-0431 US))

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

2) Insert Date of Signing of Application

(12) on _____

3) Alternative identification for filed applications

(13) U.S. application Serial Number 09/217,507
filed December 21, 1998

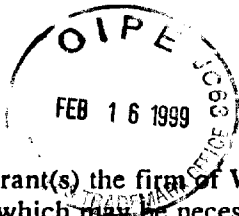
1) The undersigned agree(s) to execute all papers necessary in connection with the application and any continuing or divisional applications thereof and also to execute separate assignments in connection with such applications as the assignee may deem necessary or expedient.

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.



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6) The undersigned hereby grant(s) the firm of WALL, MARJAMA & BILINSKI 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 January 20, 1999 Name of Inventor Masashi Fukuyama (SEAL)
 Date January 22, 1999 Name of Inventor Hidetoshi Fukuyama (SEAL)
 Date _____ Name of Inventor _____ (SEAL)
 Date _____ Name of Inventor _____ (SEAL)
 Date _____ Name of Inventor _____ (SEAL)
 Date _____ Name of Inventor _____ (SEAL)
 Date _____ Name of Inventor _____ (SEAL)
 Date _____ Name of Inventor _____ (SEAL)

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

Date _____ Witness _____
 Date _____ Witness _____