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1. Name of conveying party(ies)

Atsuo KONDO, Jungo KONDO,
Yoshinari KOZUKA and Soichiro MATSUZAWAAdditional 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, Aichi-Prefecture 467-8530
Japan

3. Nature of Conveyance:

☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other
Execution Date November 12, 2001Additional 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 _____.

A. Patent Application No.(s)

09/916,124 filed July 25, 2001

B. Patent No.(s)

Additional Numbers attached? ☐ Yes ☒ 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) 233-83206. Total number of application and patents involved: 1

7. Total fee (37 CFR 3.41) \$40.00

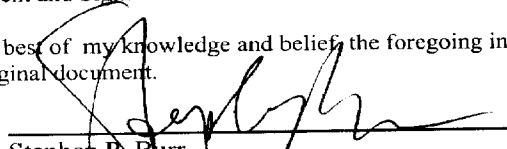
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9. Statement and Signature:

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.


 Stephen P. Burr
 Reg. No. 32,970
December 3, 2001

Date

Total Number of Pages Comprising Cover Sheet 3

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PATENT
REEL: 12423 FRAME: 0721

ASSIGNMENT

(1-8) Insert Name(s) of Inventor(s)	(1) <u>Atsuo KONDO</u>	(5) _____
	(2) <u>Jungo KONDO</u>	(6) _____
	(3) <u>Yoshinari KOZUKA</u>	(7) _____
	(4) <u>Soichiro MATSUZAWA</u>	(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) <u>NGK INSULATORS, LTD.</u>
(10) Insert address of Assignee	(10) <u>2-56, Suda-cho, Mizuho-Ku, Nagoya City,</u> <u>Aichi Pref., Japan</u>

(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) <u>AN OPTICAL WAVEGUIDE ELEMENT</u> <div style="text-align: right;">(Case No. _____)</div>
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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) <u>09/916,124</u> for filed application(s) filed <u>July 25, 2001</u>

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 November 12, 2001 Signature Atsuo Kondo (SEAL)
Atsuo KONDO

Date November 12, 2001 Signature Jungo Kondo (SEAL)
Jungo KONDO

Date November 12, 2001 Signature Yoshinari Kozuka (SEAL)
Yoshinari KOZUKA

Date November 12, 2001 Signature Soichiro Matsuzawa (SEAL)
Soichiro MATSUZAWA

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 November 12, 2001 Witness Kayoko Sugiyama

Date November 12, 2001 Witness Jungo Kondo