

Our Docket No.: 782\_208

Form PTO 1595

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05-06-2002

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U.S. Department of Commerce  
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To the Honorable Commissioner of Patents

102079056

Original documents on hand thereof.

1. Name of conveying party(ies)

Yukihisa TAKEUCHI, Tsutomu NANATAKI,  
Iwao OHWADA and Tomoya HORIUCHI

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, Aichi-Prefecture 467-8530  
Japan

3. Nature of Conveyance:

☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other

Additional name(s) attached? ☒ No

Execution Date April 18, 2002

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)

10/027,232 filed December 20, 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

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6. Total number of application and patents involved: 1

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

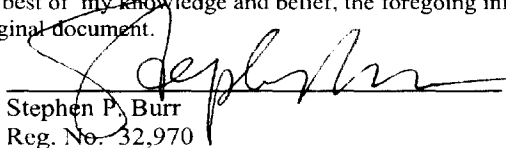
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8. Charge Deposit account

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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

April 22, 2002  
Date

Total Number of Pages Comprising Cover Sheet 3

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

Commissioner of Patents and Trademarks  
Box Assignments  
Washington, D.C. 20231

PATENT  
REEL: 12849 FRAME: 0990

# ASSIGNMENT

(1-8) Insert Name(s) of  
Inventor(s)

(1)	<u>Yukihisa TAKEUCHI</u>	(5)	_____
(2)	<u>Tsutomu NANATAKI</u>	(6)	_____
(3)	<u>Iwao OHWADA</u>	(7)	_____
(4)	<u>Tomoya HORIUCHI</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) NGK INSULATORS, LTD.

(10) Insert address of  
Assignee

(10) 2-56, Suda-cho, Mizuho-ku, Nagoya City, Aichi Pref., 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) ELECTRON-EMITTING DEVICE AND FIELD EMISSION DISPLAY  
USING THE SAME

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) 10/027,232  
for filed application(s) filed December 20, 2001

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.