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Our Docket No.: 796 051

Form PTO 1595 REC  T U.S. Department of Commerce U.S. Patent and Trademark Office

103091907

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

<p>1. Name of conveying party(ies)</p> <p>Tsutomu NANATAKI, Hirofumi YAMAGUCHI and Ritsu TANAKA</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.</p> <p>Address: 2-56, Suda-Cho, Mizuho-Ku Nagoya-City, Aichi-Prefecture 467-8530 Japan</p>
<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>August 16, 2005</u></p>	<p>Additional name(s) attached? <input checked="" type="checkbox"/> No</p>

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 .

<p>A. Patent Application No.(s)</p> <p>11/180,975 filed July 13, 2005</p>	<p>B. Patent No.(s)</p>
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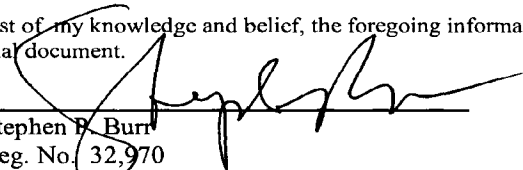
Additional Numbers attached? Yes No

<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: BARR & BROWN P.O. Box 7068 Syracuse, NY 13261-7068 Telephone: (315) 233-8300 Facsimile: (315) 233-8320</p>	<p>6. Total number of application and patents involved: <u>1</u></p> <p>7. Total fee (37 CFR 3.41) \$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. 50-1446.</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.


September 23, 2005
Date

Stephen P. Burr
Reg. No. 32,970

Total Number of Pages Comprising Cover Sheet 4

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ASSIGNMENT

Tsutomu NANATAKI

(Inventor 1)

Hirofumi YAMAGUCHI

(Inventor 2)

Ritsu TANAKA

(Inventor 3)

(Inventor 4)

(Inventor 5)

(Inventor 6)

(Inventor 7)

(Inventor 8)

各々の署名人に対して支払われた総額 1 ドル (\$ 1.00) および他の適切な有価約因を考慮して、本署名人 (ら) は、

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

Name of Assignee NGK INSULATORS, LTD.

Address of Assignee 2-56, Suda-cho, Mizuho-ku, Nagoya-shi, Aichi-ken,
467-8530, Japan

(以降譲受人と称する) に対して、以下に示される発明、本発明に関する全ての特許出願及び全ての特許権に関する合衆国、その領土、保護領および占有地に対するすべての権利、所有権および利益を譲渡することに同意し、その結果、譲渡および移転し、

(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

(Identification of Invention, such as Title, Case Number or Foreign Application Number)

ELECTRON EMITTER

前記発明は、本前記署名人が下記の日付・出願番号でアメリカ合衆国において特許出願を履行したものである。

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

on even date herewith
(Insert Date of Signing of Application)

U.S. Application(s) Serial Number(s) 11/180.975 filed July 13, 2005
(Alternative identification)

U.S. Application(s) Serial Number(s) _____ filed _____
(Alternative identification)

1) 本署名人(ら)は本出願、その継続出願およびその分割出願に関する全ての必要書類を履行することに同意し、譲受人が必要と思われる、これらの出願に関して別途譲渡証を履行することに同意する。

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) 本署名人(ら)は、本出願もしくはその継続出願、もしくはその分割出願に関して宣言されるインターフェアレンスに関して必要な全ての書類を履行することに同意し、証拠取得およびそのようなインターフェアレンスの進行にあたり起こりうるいかなる方法においても前記譲受人と協力することに同意する。

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) 本署名人(ら)は、すべての用紙および書類を履行し、国際工業所有権保護協定の請求もしくは規定もしくは類似協定に関して必要ないかなる行為を施行することに同意する。

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) 本署名人(ら)は、前記譲受人に対して、有効な米国特許の許可を取得するために必要なすべての積極的な行為を履行することに同意する。

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.

<p>5) 本署名人(ら)は、本出願もしくはその分割出願もしくはその継続出願から発生したすべての米国特許を、全ての利益の譲受人として前記譲受人に対して発行することを特許庁長官に許可および請求し、署名人(ら)はここに譲渡される全ての利益を譲渡するためのすべての権利を有し、対立関係にある協定を過去に履行することもなく、もしくは将来履行しないことを誓約する。</p>	<p>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.</p>
<p>6) 本署名人(ら)は、この書類の記録上、米国特許商標庁の規定に従うために必要もしくは所望の追加確認事項をこの譲渡証に記入するための権利が、バー&ブラウン弁護士事務所(Burr & Brown)に付与されていることをここに承認する。</p>	<p>6) The undersigned hereby grant(s) the firm 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.</p>

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

Date August 16, 2005 Signature Tsutomu Nanataki (SEAL)

Date 2005.8.16 Signature H. Yamaguchi (SEAL)

Date 2005.8.16 Signature Ritsu Tanaka (SEAL)

Date _____ Signature _____ (SEAL)

Date _____ Signature _____ (SEAL)

Date _____ Signature _____ (SEAL)

Date _____ Signature _____ (SEAL)

Date _____ Signature _____ (SEAL)