

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT								
NATURE OF CONVEYANCE:	ASSIGNMENT								
CONVEYING PARTY DATA									
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Kouta TSUTSUMI</td> <td>05/23/2013</td> </tr> <tr> <td>Ryou MATSUO</td> <td>05/23/2013</td> </tr> <tr> <td>Mitsuyoshi NAGANO</td> <td>05/23/2013</td> </tr> </tbody> </table>		Name	Execution Date	Kouta TSUTSUMI	05/23/2013	Ryou MATSUO	05/23/2013	Mitsuyoshi NAGANO	05/23/2013
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Kouta TSUTSUMI	05/23/2013								
Ryou MATSUO	05/23/2013								
Mitsuyoshi NAGANO	05/23/2013								
RECEIVING PARTY DATA									
Name:	NIPPON TUNGSTEN CO., LTD								
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City:	Fukuoka								
State/Country:	JAPAN								
Postal Code:	812-8538								
PROPERTY NUMBERS Total: 1									
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13864967</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13864967				
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NAME OF SUBMITTER:	Paul D. Bianco								
Signature:	/Paul D. Bianco/								

PATENT

Date:

08/02/2013

Total Attachments: 2
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**DECLARATION (37 C.F.R. 1.63) FOR PATENT APPLICATION USING AN
APPLICATION DATA SHEET (37 C.F.R. 1.76) AND ASSIGNMENT**

Title of Invention: COMPOSITE CERAMIC BODY, AND COMPONENT MEMBER
FOR SEMICONDUCTOR MANUFACTURING APPARATUS

As a below named inventor, I hereby declare that:

This declaration is directed United States Patent Application No. 13/864,967 filed on April 17, 2013.

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I have reviewed and understand the contents of the application, including the claims.

I am aware of the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in 37 CFR Section 1.56.

Whereas, the undersigned inventors have made certain inventions, improvements, and discoveries (herein referred to as the "Invention") disclosed in the above-identified patent application and further identified by the Docket Number provided above in the header of this document;

Whereas, NIPPON TUNGSTEN CO., LTD, a corporation of JAPAN, having a place of business at 2-8, Minoshima 1-chome, Hakata-ku, Fukuoka-shi, Fukuoka, 812-8538 Japan (herein referred to as "ASSIGNEE"), desires to acquire, and each undersigned inventor desires to grant to ASSIGNEE, the entire worldwide right, title, and interest in and to the Invention and in and to any and all patent applications and patents directed thereto;

Now, therefore, for good and valuable consideration, the receipt and sufficiency thereof being hereby acknowledged, each undersigned inventor ("ASSIGNOR") hereby sells or has sold, assigns or has assigned, and otherwise transfers or has transferred to the ASSIGNEE, its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the Invention, the above-identified United States patent application, and any and all other patent applications and patents for the Invention which may be applied for or granted therefor in the United States and in all foreign countries and jurisdictions, including all divisions, continuations, reissues, reexaminations, renewals, extensions, counterparts, substitutes, and extensions thereof, and all rights of priority resulting from the filing of such applications and granting of such patents. In addition, each undersigned inventor hereby authorizes and requests the Director of the United States Patent and Trademark Office to issue any United

States Patent, and foreign patent authorities to issue any foreign patent, granted for the Invention, to ASSIGNEE, its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the same to be held and enjoyed by ASSIGNEE, its successors, legal representatives, and assigns to the full end of the terms for which any and all such patents may be granted, as fully and entirely as would have been held and enjoyed by the undersigned had this Assignment not been made; and each undersigned inventor agrees to execute any and all documents and instruments and perform all lawful acts reasonably related to recording this Assignment or perfecting title to the Invention and all related patents and applications, in ASSIGNEE, its successors, legal representatives, and assigns, whenever requested by ASSIGNEE, its successors, legal representatives, or assigns.

Each undersigned inventor acknowledges their prior and ongoing obligations to sell, assign, and transfer the rights under this Assignment to ASSIGNEE and is unaware of any reason why they may not have the full and unencumbered right to sell, assign, and transfer the rights hereby sold, assigned, and transferred, and has not executed, and will not execute, any document or instrument in conflict herewith. Each undersigned inventor also hereby grants ASSIGNEE, its successors, legal representatives, and assigns, the right to insert in this Assignment any further identification (including, but not limited to, patent Application Number) which may be necessary or desirable for recordation of this Assignment.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

(1) Legal Name of First Inventor: TSUTSUMI, Kouta

Signature: Kota Tsutsumi

Date: may 23. 2013

(2) Legal Name of Second Inventor: MATSUO, Ryou

Signature: Ryou Matsuo

Date: may 23. 2013

(3) Legal Name of Third Inventor: NAGANO, Mitsuyoshi

Signature: Mitsuyoshi Nagano

Date: may 23. 2013.