

<b>PATENT ASSIGNMENT COVER SHEET</b>
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 Stylesheet Version v1.2

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
TAKU OKAMOTO	11/14/2016
YUKI NAKAYAMA	11/14/2016
KOSUKE MONNA	11/14/2016
OSAMU NAKASONE	11/14/2016
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	NGK INSULATORS, LTD.
<b>Street Address:</b>	2-56, SUDA-CHO, MIZUHO-KU
<b>City:</b>	NAGOYA-SHI, AICHI
<b>State/Country:</b>	JAPAN
<b>Postal Code:</b>	467-8530
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16688101
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(202)293-0445
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Phone:</b>	2022930444
<b>Email:</b>	mailpto@giplaw.com
<b>Correspondent Name:</b>	GLOBAL IP COUNSELORS, LLP DAVID TARNOFF
<b>Address Line 1:</b>	1233 20TH STREET, NW
<b>Address Line 2:</b>	SUITE 600
<b>Address Line 4:</b>	WASHINGTON, D.C. 20036-2680
<b>ATTORNEY DOCKET NUMBER:</b>	NG-US165690A
<b>NAME OF SUBMITTER:</b>	JEFFREY J. HOWELL
<b>SIGNATURE:</b>	/Jeffrey J. Howell/
<b>DATE SIGNED:</b>	11/19/2019
This document serves as an Oath/Declaration (37 CFR 1.63).	
<b>Total Attachments: 1</b>	



**COMBINED DECLARATION and ASSIGNMENT (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)**

<b>Title of Invention</b>	<b>CERAMIC HEATER, SENSOR ELEMENT, AND GAS SENSOR</b>
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As the below named inventor, I hereby declare that:

This declaration is directed to:  The attached application, or  United States application or PCT international application number \_\_\_\_\_ filed on \_\_\_\_\_

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 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.

I have reviewed and understand the contents of the application and am aware of the duty to disclose to the US Patent and Trademark Office all information known to me to be material to patentability as defined in 37 CFR § 1.56.

**ASSIGNMENT**

For good and valuable consideration, the receipt, sufficiency and adequacy of which are hereby acknowledged, I hereby sell, assign, and transfer to NGK INSULATORS, LTD., having a principle place of business at 2-56, Suda-cho, Mizuho-ku, Nagoya-city, Aichi, 467-8530, JAPAN, and its successors, assigns, and legal representatives, my entire right, title and interest in and to the invention listed above, together with the Application, any and all Patents that may issue for the United States and all foreign countries (including the right to claim priority under the terms of the International Convention and any other relevant International Treaties and Arrangements from the aforesaid application), in and to any and all improvements that are disclosed in the above-noted application, and in and to any reissues, renewals, continuations, continuation-in-parts, divisionals or extensions thereof that have been or shall be filed in the United States and all foreign countries on any of said improvements.

I agree that I will communicate to the assignee or its representatives any facts known to me respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal, and reissue applications, execute all necessary assignment papers to cause any and all Patents to be issued to the assignee, make all rightful oaths, and, generally do everything possible to aid said assignee, its successors and assigns, to obtain and enforce proper protection for said invention in the United States and in any and all foreign countries.

The undersigned hereby grants the firm of Global IP Counselors, LLP the power to insert in this Assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

LEGAL NAME OF INVENTOR (Given name FAMILY NAME)

Inventor: <u>Yusuke WATANABE</u>	Date: <u>July 26, 2016</u>
Signature: <u>Yusuke Watanabe</u>	
Inventor: <u>Takao MURASE</u>	Date: <u>July 26, 2016</u>
Signature: <u>Takao Murase</u>	
Inventor: <u>Masashi YASUI</u>	Date: <u>July 27, 2016</u>
Signature: <u>Masashi Yasui</u>	
Inventor: _____	Date: _____
Signature: _____	