506253707 09/16/2020

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date	
SHOTARO NIIZUMA	09/02/2020	
YUSUKE WATANABE	09/02/2020	
TOSHIHIRO HIRAKAWA	09/02/2020	
HAYAMI AOTA	09/02/2020	

RECEIVING PARTY DATA

Name:	NGK INSULATORS, LTD.
Street Address:	2-56, SUDA-CHO, MIZUHO-KU,
City:	NAGOYA, AICHI
State/Country:	JAPAN
Postal Code:	467-8530

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	17022194

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	TOH-12808
NAME OF SUBMITTER:	JOHN R. MATTINGLY
SIGNATURE:	/John R. Mattingly/
DATE SIGNED:	09/16/2020

Total Attachments: 1

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PATENT REEL: 053786 FRAME: 0785

506253707

ASSIGNMENT

As a below named inventor, I hereby declare that:

IN CONSIDERATION of the sum of One Dollar (\$1.00) or the equivalent thereof, and other good and
valuable consideration paid to me by NGK Insulators, Ltd. (hereinafter referred to as ASSIGNEE), a corporation
organized under the laws of Japan, located at 2-56, Suda-cho, Mizuho-ku, Nagoya-city, Aichi-pref. 467-8530,
Japan, receipt of which is hereby acknowledged, I do hereby sell and assign to said ASSIGNEE, its successors and
assigns, all my right, title and interest, in and for the United States of America, in and to application serial no.

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GAS SENSOR

invented by me (if only one inventor is named below) or us (if plural inventors are named below) and described in the application for United States Letters Patent therefor, executed on even date herewith, and all United States Letters Patent which may be granted therefor, and all non-provisional applications, divisions, continuations and extensions thereof, said interest being the entire ownership of said Letters Patent when granted, to be held and enjoyed by said ASSIGNEE, its successors, assigns or other legal representatives, to the full end of term for which said Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by me or us if this assignment and sale had not been made;

And I hereby agree to sign and execute any further documents or instruments which may be necessary, lawful, and proper in the prosecution of the above-named application or in the preparation and prosecution of any continuing, continuation-in-part, substitute, divisional, renewal, reviewed or reissue applications or in any amendment, extension, interference proceeding, or post-grant proceeding, or otherwise to secure the title thereto in said assignee;

Whereby, I hereby grant the law firm of MATTINGLY & MALUR, P.C., 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 for recordation of this document, including inserting the application serial number and filing date when known.

And I do hereby authorize and request the Commissioner of Patents to issue said Letters Patent to said ASSIGNEE.

Signed on the date(s) indicated aside signature(s):

Date Signed

1) Sep. 2, 2020

Shotaro NIIZUMA

2) Sep. 2, 2020

Tusuke Watenabe
Yusuke WATANABE

3) Sep. 2, 2020

Toshihiro HIRAKAWA

4) Sep. 2, 2020

Mayari Aota

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RECORDED: 09/16/2020