PATENT ASSIGNMENT COVER SHEET

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 SUBMISSION TYPE:
 NEW ASSIGNMENT

 NATURE OF CONVEYANCE:
 ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
YUSUKE WATANABE	07/28/2020
TAKAYUKI SEKIYA	07/29/2020
DAICHI ICHIKAWA	08/06/2020

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16998003

CORRESPONDENCE DATA

Fax Number: (703)684-1157

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.

Phone: 703-684-1120

Email:svannarath@mmiplaw.comCorrespondent Name:MATTINGLY & MALUR, PCAddress Line 1:1800 DIAGONAL ROAD

Address Line 2: SUITE 210

Address Line 4: ALEXANDRIA, VIRGINIA 22314

ATTORNEY DOCKET NUMBER: YYA-12736

NAME OF SUBMITTER: SHRINATH MALUR

SIGNATURE: /Shrinath Malur/

DATE SIGNED: 08/20/2020

Total Attachments: 1

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PATENT 506212499 REEL: 053548 FRAME: 0387

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, 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.
filed, and entitled:

GAS SENSOR AND GAS SENSOR OPERATION CONTROL METHOD

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):

INV	ENTOR(S)	Date Signed
1)	TUSALE Wajnnabe Yusuke WATANABE	July 28, 2020
2)	Tokayuki Sebuja Takayuki SEKIYA	July 29, 2020
3)	Daichi Ichikawa	August, 6, 2020
	Daichi ICHIKAWA	

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PATENT REEL: 053548 FRAME: 0388

RECORDED: 08/20/2020