

PATENT ASSIGNMENT COVER SHEET

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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>YUMA OTSUKA</td> <td>12/03/2013</td> </tr> <tr> <td>KAZUNORI FUKUNAGA</td> <td>12/03/2013</td> </tr> <tr> <td>ATSUSHI UCHIDA</td> <td>12/03/2013</td> </tr> <tr> <td>KOUHEI YOSHIMURA</td> <td>12/03/2013</td> </tr> </tbody> </table>		Name	Execution Date	YUMA OTSUKA	12/03/2013	KAZUNORI FUKUNAGA	12/03/2013	ATSUSHI UCHIDA	12/03/2013	KOUHEI YOSHIMURA	12/03/2013
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<table border="1"> <tr> <td>Name:</td> <td>NGK SPARK PLUG CO., LTD.</td> </tr> <tr> <td>Street Address:</td> <td>14-18, TAKATSUJI-CHO, MIZUHO-KU</td> </tr> <tr> <td>City:</td> <td>NAGOYA, AICHI</td> </tr> <tr> <td>State/Country:</td> <td>JAPAN</td> </tr> <tr> <td>Postal Code:</td> <td>467-8525</td> </tr> </table>		Name:	NGK SPARK PLUG CO., LTD.	Street Address:	14-18, TAKATSUJI-CHO, MIZUHO-KU	City:	NAGOYA, AICHI	State/Country:	JAPAN	Postal Code:	467-8525
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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>14133158</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	14133158						
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CORRESPONDENCE DATA											
Fax Number:	(502)779-8396										
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<i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i>											
Correspondent Name:	STITES & HARBISON PLLC										
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Address Line 4:	ALEXANDRIA, VIRGINIA 22314										
ATTORNEY DOCKET NUMBER:	1161LT/6785-US										
NAME OF SUBMITTER:	MEMORIE STOFFERAHN										

Signature:	/memorie stofferahn/
Date:	12/18/2013
Total Attachments: 2 source=6785-US_Assignment#page1.tif source=6785-US_Assignment#page2.tif	

ASSIGNMENT OF PATENT APPLICATION

(US rights only - all US rights assigned by inventors to a single assignee)

WHEREAS,

- 1) Yuma OTSUKA
- 2) Kazunori FUKUNAGA
- 3) Atsushi UCHIDA
- 4) Kouhei YOSHIMURA

residing respectively at

- 1) 202, 2197-2 Ohyama, Komaki-shi, Aichi-ken, JAPAN
- 2) 25-3, Hashizumezizoushita, Inuyama-shi, Aichi-ken, JAPAN
- 3) 4-93, Higashiyama, Kakamigahara-shi, Gifu-ken, JAPAN
- 4) 3-50, Asaoka-cho, Chikusa-ku, Nagoya-shi, Aichi-ken, JAPAN

(hereinafter referred to collectively as the "ASSIGNOR") have invented certain new and useful improvements in a CERAMIC SUBSTRATE AND METHOD OF MANUFACTURING THE SAME,

for which an application for a United States Patent

- ☒ was executed on even date herewith
☐ was executed on
☐ was filed on , as Application No.:

And WHEREAS, **NGK SPARK PLUG CO., LTD.**

whose Post Office Address is 14-18, Takatsuji-cho, Mizuho-ku, Nagoya, Aichi, JAPAN
467-8525

(hereinafter referred to as the "ASSIGNEE") is desirous of acquiring the entire right, title and interest in and to said application and the invention(s) and improvement(s) therein disclosed, for the United States of America, and any Letters Patent which may issue therefor in the United States and all divisions, continuations, reissues, renewals and/or extensions thereof.

NOW THEREFORE in consideration of the sum of ten U.S. dollars (\$10.00) and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the ASSIGNOR does hereby assign, sell, transfer and set over unto the ASSIGNEE the entire right, title and interest in and to said application and the invention(s) and improvement(s) therein disclosed, for the United States of America, and any Letters Patent which may issue therefor in the United States and all divisions, continuations, reissues, renewals and/or extensions thereof, said ASSIGNEE to have and to hold the interests herein assigned to the full ends of the terms of said Letters Patent and any and all divisions, continuations, reissues, renewals and/or extensions thereof, respectively, as fully and entirely as the same would have been held and enjoyed by the ASSIGNOR had this assignment not been made.

And for the consideration aforesaid, ASSIGNOR agrees that ASSIGNOR will communicate to said ASSIGNEE or the representatives thereof any facts known to ASSIGNOR respecting the invention(s) and improvement(s) of the said United States application, and will, upon request, but without expense to ASSIGNOR, testify in any legal proceedings, sign all lawful papers, execute all divisional, reissue, continuation, renewal

- 1 -

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1161LT:6785:955032:1:LOUISVILLE

PATENT
REEL: 031812 FRAME: 0734

and/or extension applications, make all rightful oaths, and generally do all other and further lawful acts, deemed necessary or expedient by said ASSIGNEE or by counsel for said ASSIGNEE, to assist or enable said ASSIGNEE to obtain and enforce full benefits from the rights and interests herein assigned.

This assignment shall be binding upon the ASSIGNOR's heirs, executors, administrators, successors and/or assigns, and shall inure to the benefit of the heirs, executors, administrators, successors, and/or assigns, as the case may be, of the ASSIGNEE.

The Commissioner of Patents is requested to issue such Letters Patent in accordance with this assignment.

I hereby authorize and request any attorney of record in said Application or any attorney of Stites & Harbison, PLLC, Customer Nos. 881, 24350 or 32885, to insert above any information concerning the identity of the parties or of said Application (including the serial no. and filing date).

<u>NAME</u>	<u>SIGNATURE</u>	<u>DATE</u>
1) Yuma OTSUKA	<u>Yuma Ohtsuka</u>	<u>December 3, 2013</u>
2) Kazunori FUKUNAGA	<u>Kazunori Fukunaga</u>	<u>December 3, 2013</u>
3) Atsushi UCHIDA	<u>Atsushi Uchida</u>	<u>December 3, 2013</u>
4) Kouhei YOSHIMURA	<u>Kouhei Yoshimura</u>	<u>December 3, 2013</u>