

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| RYOSUKE MATSUI | 11/10/2014 |
| SHINGO YOSHIDA | 11/10/2014 |
| SHINICHI SAWADA | 11/10/2014 |
| RECEIVING PARTY DATA | |
| Name: | NGK SPARK PLUG CO., LTD. |
| Street Address: | 14-18, TAKATSUJI-CHO, MIZUHO-KU, |
| Internal Address: | NAGOYA |
| City: | AICHI |
| State/Country: | JAPAN |
| Postal Code: | 4678525 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 14538166 |
| CORRESPONDENCE DATA | |
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| ATTORNEY DOCKET NUMBER: | 01008/003935-US0 |
| NAME OF SUBMITTER: | KAZUE KUBO FOR MCG |
| SIGNATURE: | /Kazue Kubo/ |
| DATE SIGNED: | 11/11/2014 |
| Total Attachments: 3 | |
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| source=ASSN_3935#page2.tif | |

ASSIGNMENT

I, Ryosuke MATSUI, a citizen of Japan, having a residence at 314 Radoni Nishibiwajima, 25-6 Kaechi, Nishibiwajima-cho, Kiyosu, Aichi, Japan;

I, Shingo YOSHIDA, a citizen of Japan, having a residence at 1-11-6 Noguchi, Ichinomiya, Aichi, Japan; and

I, Shinichi SAWADA, a citizen of Japan, having a residence at 25 Jinmei, Nara-cho, Konan, Aichi, Japan

(hereinafter "ASSIGNORS") in consideration of the sum of Ten Dollars (\$10.00), or the equivalent thereof, and other good and valuable consideration, the sufficiency of which and receipt of which are hereby acknowledged, paid to ASSIGNORS by

NGK Spark Plug Co., LTD.

a Corporation having a place of business at 14-18, Takatsuji-cho, Mizuho-ku, Nagoya, Aichi, 4678525, Japan (hereinafter "ASSIGNEE"), do hereby sell and assign to said ASSIGNEE, its successors and assigns, the below indicated right, title, and interest, **throughout the world** in and to our Invention entitled:

SENSOR

invented by us and described by the above title and docket number in the United States of America; and all patents, divisions, reissues, continuations, continuations-in-part and any extensions thereof and rights of priority therein, said interest being our entire ownership interest in the same, to be held and enjoyed by said ASSIGNEE, its successors, assigns, or other legal representatives, to the full end of the term thereof, as fully and entirely as the same would have been held and enjoyed by us if this assignment and sale had not been made, including all rights of Assignor to recover for past infringement thereof;

And for the consideration aforesaid, we hereby covenant and agree to and with said ASSIGNEE, its successors and assigns, that whenever ASSIGNEE, its counsel or

representative, or the counsel or representative of its successors or assigns, shall advise that an amendment to, or a division of, or any other proceeding or action in connection with an application concerning said Invention, including interference proceedings, is lawful and desirable, or that a reissue or continuation or extension of such application or patent issuing therefrom is lawful and desirable, we will sign all papers and drawings, take all rightful oaths and affidavits, and do all acts necessary or required to be done for the procurement of all lawful rights associated with the Invention, or for the reissue or continuation or extension of the same, will do all acts necessary or required to secure in said ASSIGNEE, its successors or assigns, the title to and full benefit of all rights hereby assigned, without charge to said ASSIGNEE or its successors or assigns, but at its or their expense; and we hereby appoint every present or future officer of said ASSIGNEE as our agent to sign all such papers and to do all such necessary acts on our behalf, to the fullest extent permitted by law;

And we hereby authorize and request the Commissioner of Patents and Trademarks and any other granting authority to issue any Letters Patent resulting from said Invention and application(s) concerning same to said ASSIGNEE.

This assignment shall have an effective date corresponding to the last date of execution.

We declare under penalty of perjury under the laws of the United States of America, and under penalty of the laws of any other jurisdiction before which this document may be presented, that we have signed this document as our own free act and that all of the foregoing is true and correct.

Dated: November 10, 2014

Ryosuke Matsui
Ryosuke MATSUI, Inventor

Dated: November 10, 2014

Shingo Yoshida
Shingo YOSHIDA, Inventor

Attorney Docket No.: 01008/003935-US0

Dated: November 10, 2014

Shinichi Sawada
Shinichi SAWADA, Inventor