

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	TAKAHIRO HAYASHI	01/05/2015
	SEIJI MORI	01/05/2015
	TATSUYA ITO	01/05/2015
RECEIVING PARTY DATA		
Name:	NGK SPARK PLUG CO., LTD.	
Street Address:	14-18, TAKATSUJI-CHO, MIZUHO-KU	
City:	NAGOYA-SHI, AICHI	
State/Country:	JAPAN	
Postal Code:	467-8525	
PROPERTY NUMBERS Total: 1		
Property Type	Number	
Application Number:	14416254	
CORRESPONDENCE DATA		
Fax Number:	(502)779-8396	
<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>		
Phone:	703-739-4900	
Email:	mstofferahn@stites.com	
Correspondent Name:	STITES & HARBISON PLLC	
Address Line 1:	1199 NORTH FAIRFAX STREET	
Address Line 2:	SUITE 900	
Address Line 4:	ALEXANDRIA, VIRGINIA 22314	
ATTORNEY DOCKET NUMBER:	1161LT/6820-US	
NAME OF SUBMITTER:	MEMORIE STOFFERAHN	
SIGNATURE:	/memorie stofferahn/	
DATE SIGNED:	01/21/2015	
Total Attachments: 1		
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ASSIGNMENT

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each undersigned inventor has sold and assigned, and by these presents hereby sells and assigns, unto

name and
address of
assignee

NGK SPARK PLUG CO., LTD.
14-18, Takatsuji-cho, Mizuho-ku,
Nagoya-shi, Aichi 467-8525 Japan

(hereinafter ASSIGNEE) all right, title and interest for the United States, its territories and possessions in and to his invention relating to

title of
invention

WIRING SUBSTRATE AND PRODUCTION METHOD THEREFOR

as set forth in his/her United States Patent Application

check one

- () executed concurrently herewith
() executed on _____
(X) Serial No. PCT/JP2013/004588 Filed July 29, 2013

in and to said United States Patent Application including any and all divisions or continuations and Convention applications based in whole or in part on said invention or upon said application, including the right to make applications for Letters Patent throughout the world in respect to the invention and to claim priority under the International Convention for the Protection of Industrial Property, and in and to any and all Letters Patent of any country which may issue on any such application or for said invention, including any and all reissues, reexaminations, or extensions, to be held and enjoyed by said ASSIGNEE, its successors, legal representatives and assigns to the full end of the term or terms for which any and all such Letters Patent may be granted as fully and entirely as would have been held and enjoyed by the undersigned had this Assignment not be made;

Each of the undersigned hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all such Letters Patent to said ASSIGNEE, its successors or assigns in accordance herewith;

Each of the undersigned warrants and covenants that he/she has the full and unencumbered right to sell and assign the interests herein sold and assigned and that he/she has not executed and will not execute any document or instrument in conflict herewith;

Each of the undersigned further covenants and agrees that at any time upon request of said ASSIGNEE, its successors, legal representatives or assigns he/she will communicate to said ASSIGNEE, its successors, legal representatives or assigns all information known to him/her relating to said invention or patent application and that he/she will execute and deliver any papers, make all rightful oaths, testify in any legal proceedings and perform all other lawful acts deemed necessary or desirable by said ASSIGNEE, its successors, legal representatives or assigns to perfect title to said invention, to said application including divisions and continuations thereof and to any and all Letters Patent which may be granted therefor or thereon, including reissues, reexaminations, or extensions, in said ASSIGNEE, its successors, or assigns or to assist said ASSIGNEE, its successors, legal representatives or assigns in obtaining, reissuing or enforcing Letters Patent of the United States for said invention;

Each of the undersigned hereby grants the firm of **STITES & HARBISON PLLC** 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.

names and
signatures
of
inventors

Takahiro Hayashi date 01/05/2015 Seiji Mori date 01/05/2015
Name: Takahiro HAYASHI Name: Seiji MORI

Tatsuya ITO date 01/05/2015 _____ date _____
Name: Tatsuya ITO Name: