

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
KARSTEN MICHELS	10/18/2019
MARTIN FUCHS	10/21/2019
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	VOLKSWAGEN AKTIENGESELLSCHAFT
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<b>State/Country:</b>	GERMANY
<b>Postal Code:</b>	38440
<b>Name:</b>	ROSENBERGER HOCHFREQUENZTECHNIK GMBH & CO. KG
<b>Street Address:</b>	HAUPTSTRASSE 1
<b>City:</b>	FRIDOLFING
<b>State/Country:</b>	GERMANY
<b>Postal Code:</b>	83413
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	16595053
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(646)878-0801
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<b>ATTORNEY DOCKET NUMBER:</b>	P-590112-US
<b>NAME OF SUBMITTER:</b>	JOHN SHIN
<b>SIGNATURE:</b>	/John Shin/

<b>DATE SIGNED:</b>	11/06/2019
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**Total Attachments: 3**

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**ASSIGNMENT**

In consideration of One Dollar (\$1.00), and other good and valuable consideration, the Receipt of which is hereby acknowledged, I the undersigned, Karsten MICHELS, residing at Renneweg 19, 39130 Magdeburg, Germany; and Martin FUCHS, residing at Höglstrasse 11, 88395 Freilassing, Germany, (collectively hereinafter, the "Assignor")

Hereby sell, assign and transfer to VOLKSWAGEN AKTIENGESELLSCHAFT, a German company located at Berliner Ring 2, 38440 Wolfsburg, Germany, and Rosenberger Hochfrequenztechnik GmbH & Co. KG, a German company located at Hauptstrasse 1, 83413 Fridolfing, Germany, its successors, assigns and legal representatives (collectively hereinafter, the "Assignee"), the entire right, title and interest for all countries, in and to any and all inventions which are disclosed and claimed, and as possessed by the undersigned, any and all inventions which are disclosed but not claimed in United States Patent Application No. 16/595,053, filed on October 7, 2019, and is entitled

**IGNITION SYSTEM HAVING A HIGH-FREQUENCY PLASMA-ENHANCED  
IGNITION SPARK OF A SPARK PLUG, INCLUDING AN ANTECHAMBER,  
AND A METHOD ASSOCIATED THEREWITH**

and in and to said application and all divisional, continuing, substitute, renewal, reissue, and all other applications for U.S. Letters Patent or other related property rights in any and all foreign countries which have been or shall be filed on any of said inventions disclosed in said application; and in and to all original and reissued patents or related foreign documents which have been or shall be issued on said inventions; and including the Assignor's right in and to all revenue, income, royalties, damages and payments now or hereafter due or payable with respect to any Letters Patent which may be granted, and in and to all causes of action (either in law or in equity), and the right to sue, counterclaim, and recover for past, present and future infringement of the rights assigned or to be assigned under this Assignment;

Authorize and request the Commissioner of Patents of the United States to issue to said Assignee, the corporation above named, its successors, assigns and legal representatives, in accordance with this assignment, any and all United States Letters Patent on said inventions or any of them disclosed in said application;

Agree that said Assignee may apply for and receive foreign Letters Patent or rights of any other kind for said inventions, or any of them; and may claim, in applications for said foreign Letters Patent or other rights, the priority of the aforesaid United States patent application under the provisions of the International Convention of 1883 and later modifications thereof, under the Patent Cooperation Treaty, under the European Patent Convention or under any other available international agreement; and that,

when requested, without charge to, but at the expense of, said Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this assignment, the under-signed or the undersigned's executors or administrators will, for the United States and all foreign countries, execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications or other documents on any and all said inventions; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns and representatives, all facts known and documents available to the undersigned relating to said inventions and the history thereof; testify in all legal proceedings; and generally do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing, maintaining and enforcing proper patent protection for said inventions and for vesting title to said inventions and all applications for patents or related foreign rights and all patents on said inventions, in said Assignee, its successors, assigns and legal representatives; and

**COVENANT** with said Assignee, its successors, assigns and legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

FULL NAME OF INVENTOR: <b>Karsten MICHELS</b>	FULL NAME OF WITNESS: <i>Dirk Hagelstein</i>
SIGNATURE OF INVENTOR: <i>Karsten Michels</i>	SIGNATURE OF WITNESS: <i>Dirk Hagelstein</i>
DATE: <u>18.10.2013</u> (day / month / year)	ADDRESS OF WITNESS: <i>Grabenhorst 64 38110 Braunschweig</i>

FULL NAME OF INVENTOR: <b>Martin FUCHS</b>	FULL NAME OF WITNESS:
SIGNATURE OF INVENTOR:	SIGNATURE OF WITNESS:
DATE: _____ (day / month / year)	ADDRESS OF WITNESS:

when requested, without charge to, but at the expense of, said Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this assignment, the under-signed or the undersigned's executors or administrators will, for the United States and all foreign countries, execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications or other documents on any and all said inventions; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns and representatives, all facts known and documents available to the undersigned relating to said inventions and the history thereof; testify in all legal proceedings; and generally do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing, maintaining and enforcing proper patent protection for said inventions and for vesting title to said inventions and all applications for patents or related foreign rights and all patents on said inventions, in said Assignee, its successors, assigns and legal representatives; and

**COVENANT** with said Assignee, its successors, assigns and legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

FULL NAME OF INVENTOR: <b>Karsten MICHELS</b>	FULL NAME OF WITNESS:
SIGNATURE OF INVENTOR:	SIGNATURE OF WITNESS:
DATE: _____ (day / month / year)	ADDRESS OF WITNESS:

FULL NAME OF INVENTOR: <b>Martin FUCHS</b>	FULL NAME OF WITNESS: <i>Alexandra Irbacher</i>
SIGNATURE OF INVENTOR: <i>M. Fuchs</i>	SIGNATURE OF WITNESS: <i>Irbacher</i>
DATE: <u>21/10/2013</u> (day / month / year)	ADDRESS OF WITNESS: <i>Martin-Belmaier-Str. 18 83352 Altmannsdorf, Germany</i>

**Rosenberger**

Rosenberger  
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