

## PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT4319166

<b>SUBMISSION TYPE:</b>	CORRECTIVE ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	Corrective Assignment to correct the 10TH INVENTOR'S LAST NAME previously recorded on Reel 041567 Frame 0623. Assignor(s) hereby confirms the ASSIGNMENT OF ASSIGNORS INTEREST.

## CONVEYING PARTY DATA

Name	Execution Date
CHRISTIAN NEUMANN	12/08/2016
JORG BECKER	12/09/2016
SASCHA PIHAN	12/09/2016
RICHARD WALTER	01/02/2017
WALTER LAESSIG	12/08/2016
FLORIAN EWEINER	12/19/2016
RAINER KIEMEL	12/08/2016
GABRIELE PRZIBILLA	12/08/2016
CHRISTIAN BREUER	12/08/2016
MARK NEUSCHUTZ	12/08/2016

## RECEIVING PARTY DATA

<b>Name:</b>	HERAEUS DEUTSCHLAND GMBH & CO. KG
<b>Street Address:</b>	HERAEUSSTRASSE 12-14
<b>City:</b>	HANAU
<b>State/Country:</b>	GERMANY
<b>Postal Code:</b>	63450

## PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15317159

## CORRESPONDENCE DATA

Fax Number: (215)965-1331

*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.*

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Email: sneumann@panitchlaw.com

Correspondent Name: SHERYL NEUMANN

Address Line 1: PANITCH SCHWARZE BELISARIO &amp; NADEL LLP

Address Line 2: 2005 MARKET STREET, SUITE 2200

Address Line 4: PHILADELPHIA, PENNSYLVANIA 19103-7013

PATENT

<b>ATTORNEY DOCKET NUMBER:</b>	688541-27US
<b>NAME OF SUBMITTER:</b>	SHERYL R. NEUMANN
<b>SIGNATURE:</b>	/SHERYL R. NEUMANN/
<b>DATE SIGNED:</b>	03/15/2017

**Total Attachments: 16**

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## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT4251637

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
CHRISTIAN NEUMANN	12/08/2016
JORG BECKER	12/09/2016
SASCHA PIHAN	12/09/2016
RICHARD WALTER	01/02/2017
WALTER LAESSIG	12/08/2016
FLORIAN EWEINER	12/19/2016
RAINER KIEMEL	12/08/2016
GABRIELE PRZIBILLA	12/08/2016
CHRISTIAN BREUER	12/08/2016
MARK NEUSCHULTZ	12/08/2016
<b>RECEIVING PARTY DATA</b>	
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<b>Property Type</b>	<b>Number</b>
Application Number:	15317159
<b>CORRESPONDENCE DATA</b>	
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<b>Phone:</b>	215-965-1347
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<b>Correspondent Name:</b>	SHERYL NEUMANN
<b>Address Line 1:</b>	PANITCH SCHWARZE BELISARIO & NADEL LLP
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<b>ATTORNEY DOCKET NUMBER:</b>	688541-27US

**INVENTOR'S COMBINED  
DECLARATION (37 CFR 1.63) AND ASSIGNMENT**  
(Utility Patent Application)

As a below-named inventor/assignor of a certain new and useful invention entitled:

**CATALYST SUPPORT AND METHOD FOR PRODUCING POROUS GRAPHITIZED  
CARBON MATERIAL COVERED WITH METAL NANOPARTICLES**

**DECLARATION**

I hereby declare that:

This Declaration is directed to the patent application attached hereto or United States application or PCT Application number PCT/EP2015/061669 filed on May 27, 2015 and on December 8, 2016 as U.S. Patent Application No. 15/317,159.

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I hereby acknowledge that any willful false statement made in this Declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

Note to Inventor: 37 C.F.R. § 1.63(c) states: "A person may not execute an oath or declaration for an application unless that person has reviewed and understands the contents of the application, including the claims, and is aware of the duty to disclose to the Office all information known to the person to be material to patentability as defined in § 1.56."

**ASSIGNMENT**

WHEREAS, I ("ASSIGNOR") desire/am obligated to assign to the below-named ASSIGNEE the invention identified above;

WHEREAS, ("ASSIGNEE"):

Heraeus Deutschland GmbH & Co. KG  
(a German Corporation)  
Heraeusstraße 12-14  
63450 Hanau  
Germany

is desirous of acquiring the entire right, title and interest in and to the invention throughout the United States, and all right, title and interest in, to and under any and all Letters Patent of the United States resulting from the invention;

FOR GOOD and VALUABLE CONSIDERATION, the full receipt and sufficiency of which are hereby acknowledged, ASSIGNOR(S), intending to be legally bound, do hereby:

AUTHORIZE said ASSIGNEE, or its representatives to insert above the filing date and application number of the application when these are known;

SELL, ASSIGN, TRANSFER and CONVEY to ASSIGNEE the whole and entire right, title and interest for the United States and its possessions and territories in and to the invention which is disclosed in the above-identified patent application, and, in and to any and all patent applications related thereto including, but not limited to, all provisionals, non-provisionals, divisionals, continuations, continuations-in-part, substitutes, reexaminations, reissues and all other applications for patent which have been or shall be filed in the United States on the invention; all original, reissued and reexamined patents and extensions thereof which have been or shall be issued in the United States on the invention to the full end of the term or terms for which the patent(s) may be granted, as fully and entirely as the same would have been held by the undersigned ASSIGNOR(S) had this Assignment not been made; and specifically including all rights of priority created by the above patent application under any treaty, convention or law relating thereto;

AUTHORIZE and REQUEST the issuing authority to issue any and all United States patents granted on the invention to ASSIGNEE;

WARRANT and REPRESENT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by ASSIGNOR(S), and that the full right to convey the same as herein expressed is possessed by ASSIGNOR(S);

AGREE and UNDERTAKE, when requested and at the expense of ASSIGNEE, to carry out in good faith the intent and purpose of this Assignment, ASSIGNOR(S) will execute all non-provisionals, divisionals, continuations, continuations-in-part, substitutes, reexaminations, reissues, and all other patent applications on the invention; execute all lawful oaths, declarations, assignments, powers of attorney and other papers; communicate to ASSIGNEE all facts known to ASSIGNOR(S) relating to the invention and the history thereof; and generally do everything possible which ASSIGNEE shall consider desirable for vesting title to the invention in ASSIGNEE, and for securing, maintaining and enforcing proper patent protection for the invention; all without further compensation to ASSIGNOR(S);

TO BE BINDING on the heirs, assigns, representatives and successors of ASSIGNOR(S) and extending to the successors, assigns, and nominees of ASSIGNEE.

**First/sole inventor/Assignor:**

Date: Dec 8, 2016

Signature: \_\_\_\_\_



Typed Legal Name: Christian NEUMANN

**Second joint inventor/Assignor:**

Date: \_\_\_\_\_

Signature: \_\_\_\_\_

Typed Legal Name: Jörg BECKER

**Third joint inventor/Assignor:**

Date: \_\_\_\_\_

Signature: \_\_\_\_\_

Typed Legal Name: Sascha PIHAN

**Fourth joint inventor/Assignor:**

Date: \_\_\_\_\_

Signature: \_\_\_\_\_

Typed Legal Name: Richard WALTER

**Fifth joint inventor/Assignor:**

Date: \_\_\_\_\_

Signature: \_\_\_\_\_

Typed Legal Name: Walter LAESSIG

**Sixth joint inventor/Assignor:**

Date: \_\_\_\_\_

Signature: \_\_\_\_\_

Typed Legal Name: Florian ERWEINER

**Seventh joint inventor/Assignor:**

Date: \_\_\_\_\_


Signature: \_\_\_\_\_

Typed Legal Name: Rainer KIEMEL

**First/sole inventor/Assignor:**

Date: \_\_\_\_\_ Signature: \_\_\_\_\_  
Typed Legal Name: Christian NEUMANN

**Second joint inventor/Assignor:**

Date: 12/09/2016 Signature:   
Typed Legal Name: Jörg BECKER

**Third joint inventor/Assignor:**

Date: \_\_\_\_\_ Signature: \_\_\_\_\_  
Typed Legal Name: Sascha PIHAN

**Fourth joint inventor/Assignor:**

Date: \_\_\_\_\_ Signature: \_\_\_\_\_  
Typed Legal Name: Richard WALTER

**Fifth joint inventor/Assignor:**

Date: \_\_\_\_\_ Signature: \_\_\_\_\_  
Typed Legal Name: Walter LAESSIG

**Sixth joint inventor/Assignor:**

Date: \_\_\_\_\_ Signature: \_\_\_\_\_  
Typed Legal Name: Florian EWEINER

**Seventh joint inventor/Assignor:**

Date: \_\_\_\_\_ Signature: \_\_\_\_\_  
Typed Legal Name: Rainer KIEMEL


**First/sole inventor/Assignor:**

Date: \_\_\_\_\_ Signature: \_\_\_\_\_  
Typed Legal Name: Christian NEUMANN

**Second joint inventor/Assignor:**

Date: \_\_\_\_\_ Signature: \_\_\_\_\_  
Typed Legal Name: Jörg BECKER

**Third joint inventor/Assignor:**

Date: 12/09/2016 Signature:   
Typed Legal Name: Sascha PIHAN

**Fourth joint inventor/Assignor:**

Date: \_\_\_\_\_ Signature: \_\_\_\_\_  
Typed Legal Name: Richard WALTER

**Fifth joint inventor/Assignor:**

Date: \_\_\_\_\_ Signature: \_\_\_\_\_  
Typed Legal Name: Walter LAESSIG

**Sixth joint inventor/Assignor:**

Date: \_\_\_\_\_ Signature: \_\_\_\_\_  
Typed Legal Name: Florian EWEINER

**Seventh joint inventor/Assignor:**

Date: \_\_\_\_\_ Signature: \_\_\_\_\_  
Typed Legal Name: Rainer KIEMEL



**First/sole inventor/Assignor:**

Date: \_\_\_\_\_ Signature: \_\_\_\_\_  
Typed Legal Name: Christian NEUMANN

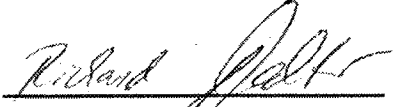
**Second joint inventor/Assignor:**

Date: \_\_\_\_\_ Signature: \_\_\_\_\_  
Typed Legal Name: Jörg BECKER

**Third joint inventor/Assignor:**

Date: \_\_\_\_\_ Signature: \_\_\_\_\_  
Typed Legal Name: Sascha PIHAN

**Fourth joint inventor/Assignor:**

Date: 24/02/2017 Signature:   
Typed Legal Name: Richard WALTER

**Fifth joint inventor/Assignor:**

Date: \_\_\_\_\_ Signature: \_\_\_\_\_  
Typed Legal Name: Walter LAESSIG

**Sixth joint inventor/Assignor:**

Date: \_\_\_\_\_ Signature: \_\_\_\_\_  
Typed Legal Name: Florian EWEINER

**Seventh joint inventor/Assignor:**

Date: \_\_\_\_\_ Signature: \_\_\_\_\_  
Typed Legal Name: Rainer KIEMEL

**First/sole inventor/Assignor:**

Date: \_\_\_\_\_ Signature: \_\_\_\_\_  
Typed Legal Name: Christian NEUMANN

**Second joint inventor/Assignor:**

Date: \_\_\_\_\_ Signature: \_\_\_\_\_  
Typed Legal Name: Jörg BECKER


**Third joint inventor/Assignor:**

Date: \_\_\_\_\_ Signature: \_\_\_\_\_  
Typed Legal Name: Sascha PIHAN

**Fourth joint inventor/Assignor:**

Date: \_\_\_\_\_ Signature: \_\_\_\_\_  
Typed Legal Name: Richard WALTER

**Fifth joint inventor/Assignor:**

Date: 12.10.8.17016 Signature:   
Typed Legal Name: Walter LAESSIG

**Sixth joint inventor/Assignor:**

Date: \_\_\_\_\_ Signature: \_\_\_\_\_  
Typed Legal Name: Florian EWEINER

**Seventh joint inventor/Assignor:**

Date: \_\_\_\_\_ Signature: \_\_\_\_\_  
Typed Legal Name: Rainer KIEMEL

**First/sole inventor/Assignor:**

Date: \_\_\_\_\_ Signature: \_\_\_\_\_  
Typed Legal Name: Christian NEUMANN

**Second joint inventor/Assignor:**

Date: \_\_\_\_\_ Signature: \_\_\_\_\_  
Typed Legal Name: Jörg BECKER

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Date: \_\_\_\_\_ Signature: \_\_\_\_\_  
Typed Legal Name: Sascha PIHAN


**Fourth joint inventor/Assignor:**

Date: \_\_\_\_\_ Signature: \_\_\_\_\_  
Typed Legal Name: Richard WALTER

**Fifth joint inventor/Assignor:**

Date: \_\_\_\_\_ Signature: \_\_\_\_\_  
Typed Legal Name: Walter LAESSIG

**Sixth joint inventor/Assignor:**

Date: 12/19/2016 Signature:   
Typed Legal Name: Florian EWEINER

**Seventh joint inventor/Assignor:**

Date: \_\_\_\_\_ Signature: \_\_\_\_\_  
Typed Legal Name: Rainer KIEMEL

**First/sole inventor/Assignor:**

Date: \_\_\_\_\_ Signature: \_\_\_\_\_  
Typed Legal Name: Christian NEUMANN

**Second joint inventor/Assignor:**

Date: \_\_\_\_\_ Signature: \_\_\_\_\_  
Typed Legal Name: Jörg BECKER

**Third joint inventor/Assignor:**

Date: \_\_\_\_\_ Signature: \_\_\_\_\_  
Typed Legal Name: Sascha PIHAN

**Fourth joint inventor/Assignor:**

Date: \_\_\_\_\_ Signature: \_\_\_\_\_  
Typed Legal Name: Richard WALTER

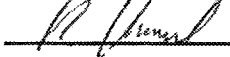
**Fifth joint inventor/Assignor:**

Date: \_\_\_\_\_ Signature: \_\_\_\_\_  
Typed Legal Name: Walter LAESSIG


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Date: \_\_\_\_\_ Signature: \_\_\_\_\_  
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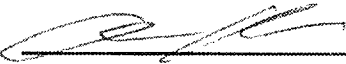
**Seventh joint inventor/Assignor:**

Date: 12/08/2016 Signature:   
Typed Legal Name: Rainer KIEMEL

**Eighth joint inventor/Assignor:**

Date: 12/02/2016 Signature:   
Typed Legal Name: Gabriele PRZIBILLA

**Ninth joint inventor/Assignor:**

Date: 12/08/2016 Signature:   
Typed Legal Name: Christian BREUER

**Tenth joint inventor/Assignor:**

Date: \_\_\_\_\_ Signature: \_\_\_\_\_  
Typed Legal Name: Mark NEUSCHÜTZ

**Eighth joint inventor/Assignor:**

Date: \_\_\_\_\_

Signature: \_\_\_\_\_

Typed Legal Name: Gabriele PRZIBILLA

**Ninth joint inventor/Assignor:**

Date: \_\_\_\_\_

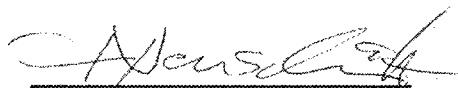
Signature: \_\_\_\_\_

Typed Legal Name: Christian BREUER

**Tenth joint inventor/Assignor:**

Date: <sup>12 8</sup>  
12/08/2015

Signature: \_\_\_\_\_



Typed Legal Name: Mark NEUSCHÜTZ



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Electronic Version v1.1

Stylesheet Version v1.2

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Property Type	Number
Application Number:	15317159

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Signature:	/SHERYL R. NEUMANN/
Date:	01/31/2017
This document serves as an Oath/Declaration (37 CFR 1.63).	

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