

<b>PATENT ASSIGNMENT COVER SHEET</b>
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Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT6467165

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
JAN SCHOENHABER	07/16/2020
NAINA DEIBEL	07/14/2020
MARTIN ROESCH	07/16/2020
STEPHANIE SPIESS	06/03/2020
MEIKE GOTTHARDT	06/11/2020
NICOLE SCHICHTEL	07/17/2020
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	UMICORE AG & CO. KG
<b>Street Address:</b>	RODENBACHER CHAUSSEE 4
<b>City:</b>	HANAU-WOLFGANG
<b>State/Country:</b>	GERMANY
<b>Postal Code:</b>	63457
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16954305
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(202)263-4329
<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>	
<b>Phone:</b>	202.263.4300
<b>Email:</b>	docketing@sgrlaw.com
<b>Correspondent Name:</b>	SMITH, GAMBRELL & RUSSELL, LLP
<b>Address Line 1:</b>	1055 THOMAS JEFFERSON STREET
<b>Address Line 2:</b>	SUITE 400
<b>Address Line 4:</b>	WASHINGTON, D.C. 20007
<b>ATTORNEY DOCKET NUMBER:</b>	034166.327
<b>NAME OF SUBMITTER:</b>	DENNIS C. RODGERS
<b>SIGNATURE:</b>	/Dennis C. Rodgers/
<b>DATE SIGNED:</b>	12/23/2020

**Total Attachments: 6**

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## ASSIGNMENT

This assignment agreement is applicable to an invention entitled:

**CATALYTICALLY ACTIVE PARTICULATE FILTER**

and which is found in (*check one*)::

- A patent application for this invention, executed by the ASSIGNOR(S) concurrently with this assignment (U.S. Application No. \_\_\_\_\_);
- U.S. Patent Application No. \_\_, filed \_\_;
- A U.S. Patent Application based on PCT International Application No. \_\_ filed on \_\_ (U.S. Application No. \_\_);
- PCT International Application No. PCT/EP2018/084902 filed on December 14, 2018 (U.S. Application No. \_\_\_\_\_); and/or
- U.S. Patent No. \_\_, issued \_\_ (date).

The PATENT PROPERTY assigned under this agreement is (*check one*):

- U.S. Patent Property only: The entire right, title and interest for the United States and its territorial possessions in and to the invention identified above, any and all improvements thereof, the right to claim priority including the right to claim priority to any earlier patent applications for said invention, and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, continuation-in-part, extension, conversion to 35 U.S.C. 111(a), or substitute thereof, and any reissue, reexamination, or extension of said Letters Patent, and the right to sue and recover for any past infringement, the right to file and/or prosecute any applications for said invention as Applicant, and the right to have said Letters Patent issue with the Assignee as named Applicant, or
- Worldwide Patent Property: The entire right, title and interest for the United States and its territorial possessions and in all foreign countries in and to the invention identified above, any and all improvements thereof, and any legal equivalent thereof in a foreign country, the right to claim priority including the right to claim priority to any earlier patent applications for said invention, and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, continuation-in-part, extension, conversion to 35 U.S.C. 111(a), or substitute thereof, and any reissue, reexamination, or extension of said Letters Patent, and all rights under all International Conventions for the Protection of Industrial Property, and the right to sue and recover for any past infringement, and where applicable, the right to file and/or prosecute any applications for said invention as Applicant and/or the right to have said Letters Patent issue with the Assignee as named Applicant.

The following ASSIGNEE is the recipient of the PATENT PROPERTY:

**UMICORE AG & CO. KG  
Rodenbacher Chaussee 4  
Hanau-Wolfgang, GERMANY  
63457**

This ASSIGNEE is (*check one*):

- An Individual;
- A Partnership;
- A Corporation/Entity of Germany (specify state or country); or
- (other)

In consideration of the premises hereof, and other good and valuable consideration, receipt of which is acknowledged, the ASSIGNOR(S) hereby sell, assign and transfer to the ASSIGNEE, its successors, assigns, and legal representatives, the PATENT PROPERTY.

As to all U.S. Patent Property assigned under this agreement, the ASSIGNOR(S) hereby authorize and request the Director of the U.S. Patent & Trademark Office to issue said Letters Patent and any reissue or extension thereof to the ASSIGNEE.

The ASSIGNOR(S) hereby agree that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

Further, the ASSIGNOR(S) hereby agree to communicate to said ASSIGNEE, its successors, assigns, and legal representatives, any facts known to the ASSIGNOR(S) respecting said invention, promptly provide upon request all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR(s), testify in any interference, derivation, post grant review, inter partes review, litigation, or legal proceeding relating to the PATENT PROPERTY, sign all lawful papers, execute all divisional, continuation, continuation-in-part, substitute, renewal, reexamination and reissue applications, execute all necessary assignment papers to cause any and all Letters Patent to be issued to said ASSIGNEE, make all rightful oaths and generally do everything necessary or desirable to aid said ASSIGNEE, its successors, assigns, and legal representatives, to obtain and enforce proper protection for said invention.

The ASSIGNOR(S) authorize any attorneys and agents of record and/or who have a power of attorney in this application to check any appropriate boxes and to insert the Serial Number and filing date in this document after it has been executed.

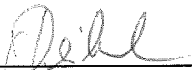
IN WITNESS WHEREOF, the below designated ASSIGNOR(S) and ASSIGNEE have executed this ASSIGNMENT:

**ASSIGNOR**

Signature: 


Date: 16/7/20

Name: Jan SCHOENHABER

Signature: 

Date: 14.07.20

Name: Naina DEIBEL

Signature: 

Date: 16.07.2020

Name: Martin ROESCH

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

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

Name: Stephanie SPIESS

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

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


Name: Meike GOTTHARDT

Signature: 

Date: 17.07.2020

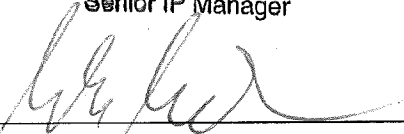
Name: Nicole SCHICHEL

**ASSIGNEE**

Signature: 

Date: 28.07.2020

Name: i.V. Dr. Stefan Retzow acting in official capacity on behalf of  
Senior IP Manager UMICORE AG & CO. KG

Signature: 

Date: 30.07.2020

Name: i.V. Dr. Kai-Uwe Clauswitz acting in official capacity on behalf of  
Senior IP Manager UMICORE AG & CO. KG

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- Worldwide Patent Property: The entire right, title and interest for the United States and its territorial possessions and in all foreign countries in and to the invention identified above, any and all improvements thereof, and any legal equivalent thereof in a foreign country, the right to claim priority including the right to claim priority to any earlier patent applications for said invention, and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, continuation-in-part, extension, conversion to 35 U.S.C. 111(a), or substitute thereof, and any reissue, reexamination, or extension of said Letters Patent, and all rights under all International Conventions for the Protection of Industrial Property, and the right to sue and recover for any past infringement, and where applicable, the right to file and/or prosecute any applications for said invention as Applicant and/or the right to have said Letters Patent issue with the Assignee as named Applicant.

The following ASSIGNEE is the recipient of the PATENT PROPERTY:

**UMICORE AG & CO. KG**  
**Rodenbacher Chaussee 4**  
**Hanau-Wolfgang, GERMANY**  
**63457**

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- An Individual;
- A Partnership;
- A Corporation/Entity of Germany (specify state or country); or
- (other)

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Further, the ASSIGNOR(S) hereby agree to communicate to said ASSIGNEE, its successors, assigns, and legal representatives, any facts known to the ASSIGNOR(S) respecting said invention, promptly provide upon request all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR(s), testify in any interference, derivation, post grant review, inter partes review, litigation, or legal proceeding relating to the PATENT PROPERTY, sign all lawful papers, execute all divisional, continuation, continuation-in-part, substitute, renewal, reexamination and reissue applications, execute all necessary assignment papers to cause any and all Letters Patent to be issued to said ASSIGNEE, make all rightful oaths and generally do everything necessary or desirable to aid said ASSIGNEE, its successors, assigns, and legal representatives, to obtain and enforce proper protection for said invention.

The ASSIGNOR(S) authorize any attorneys and agents of record and/or who have a power of attorney in this application to check any appropriate boxes and to insert the Serial Number and filing date in this document after it has been executed.

IN WITNESS WHEREOF, the below designated ASSIGNOR(S) and ASSIGNEE have executed this ASSIGNMENT:

**ASSIGNOR**

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

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

Name: Jan SCHOENHABER

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

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

Name: Naina DEIBEL

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

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

Name: Martin ROESCH

Signature: *Spiess*

Date: 03.06.2020

Name: Stephanie SPIESS

Signature: *Gotthardt*

Date: 11.06.2020

Name: Meike GOTTHARDT

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

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

Name: Nicole SCHICHTEL

**ASSIGNEE**

Signature: *Stefan Retzow*

Date: 29.07.2020

Name: i.V. Dr. Stefan Retzow acting in official capacity on behalf of  
Senior IP Manager UMICORE AG & CO. KG

Signature: *Kai-Uwe Clauswitz*

Date: 30.07.2020

Name: i.V. Dr. Kai-Uwe Clauswitz acting in official capacity on behalf of  
Senior IP Manager UMICORE AG & CO. KG