

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

EPAS ID: PAT5352643

<b>SUBMISSION TYPE:</b>	CORRECTIVE ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	Corrective Assignment to correct the ASSIGNEE'S ADDRESS previously recorded on Reel 047447 Frame 0568. Assignor(s) hereby confirms the ASSIGNMENT.

**CONVEYING PARTY DATA**

Name	Execution Date
UWE PARTSCH	03/05/2018
ADRIAN GOLDBERG	03/05/2018
STEFFEN ZIESCHE	03/02/2018
BIRGIT MANHICA	03/05/2018
CAROLIN LOHRBERG	03/21/2018
WOLFGANG DÜRFELD	02/26/2018
DIETMAR ARNDT	02/26/2018
WOLFRAM KERN	02/26/2018

**RECEIVING PARTY DATA**

<b>Name:</b>	FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG ANGEWANDTEN FORSCHUNG E.V.
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<b>State/Country:</b>	GERMANY
<b>Postal Code:</b>	80686
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<b>Street Address:</b>	BERGENER RING 43
<b>City:</b>	OTTENDORF-OKRILLA
<b>State/Country:</b>	GERMANY
<b>Postal Code:</b>	01458

**PROPERTY NUMBERS Total: 1**

Property Type	Number
<b>Application Number:</b>	15750617

**CORRESPONDENCE DATA**

**Fax Number:** (202)393-5350

*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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PATENT

**Email:** patent@jhip.com, cchapman@jhip.com  
**Correspondent Name:** JACOBSON HOLMAN PLLC  
**Address Line 1:** 400 SEVENTH STREET, N.W.  
**Address Line 2:** SUITE 700  
**Address Line 4:** WASHINGTON, D.C. 20004

<b>ATTORNEY DOCKET NUMBER:</b>	P75680US0
<b>NAME OF SUBMITTER:</b>	MICHAEL R. SLOBASKY
<b>SIGNATURE:</b>	/Michael R. Slobasky/
<b>DATE SIGNED:</b>	01/31/2019

**Total Attachments: 7**

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source=P75680US0\_corrective Assignment#page5.tif  
source=P75680US0\_corrective Assignment#page6.tif  
source=P75680US0\_corrective Assignment#page7.tif



Phone: (202) 638-6666  
 Email: patent@jhip.com, cchapman@jhip.com  
*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.*  
 Correspondent Name: JACOBSON HOLMAN PLLC  
 Address Line 1: 400 SEVENTH STREET, N.W.  
 Address Line 2: SUITE 700  
 Address Line 4: WASHINGTON, D.C. 20004

<b>ATTORNEY DOCKET NUMBER:</b>	P75680US0
<b>NAME OF SUBMITTER:</b>	HARVEY B. JACOBSON, JR.
<b>Signature:</b>	/Harvey B. Jacobson, Jr./
<b>Date:</b>	11/08/2018
<b>Total Attachments: 5</b> source=P75680US0_executed Assignment#page1.tif source=P75680US0_executed Assignment#page2.tif source=P75680US0_executed Assignment#page3.tif source=P75680US0_executed Assignment#page4.tif source=P75680US0_executed Assignment#page5.tif	
<b>RECEIPT INFORMATION</b>	
<b>EPAS ID:</b>	PAT5227782
<b>Receipt Date:</b>	11/08/2018

JH-AIA04

UNITED STATES OF AMERICA -- ASSIGNMENT

(1-8) Insert Name(s) of Inventors (1) Uwe PARTSCH  
(2) Adrian GOLDBERG  
(3) Steffen ZIESCHE  
(4) Birgit MANHICA  
(5) Carolin LOHRBERG  
(6) Wolfgang DÜRFELD  
(7) Dietmar ARNDT and  
(8) Wolfram KERN

In consideration of the sum of one dollar (\$1.00), and other good and valuable considerations paid to each of the undersigned, the receipt and sufficiency of which are hereby acknowledged, the undersigned hereby assigns, transfers and sets over to

(9) Insert Names of Assignees **FRAUNHOFER-GESELLSCHAFT ZUR  
FOERDERUNG ANGEWANDTEN  
FORSCHUNG E.V.**

*And*

ALL-IMPEX GMBH

Insert Addresses of Assignees of Hansastrasse 27c, 80686 Muenchen,  
Germany

*And*

Bergener Ring 43, 01458 Ottendorf-Okrilla  
Germany

Insert Legal Entity and a Corporations of Germany  
State or Country (e.g. of Germany)  
a corporation or citizen

(hereinafter designated as the Assignee) the entire right, title and interest for the United States, its territories, dependencies and possessions, in the invention known as

(10) Insert Identification of METHOD FOR PRODUCING A COMPONENT  
FROM CERAMIC MATERIALS  
Invention, such as Title,  
Case Number or Foreign  
Application Number

(11) Insert Date of signing of Application, or filing date and Serial No., if known

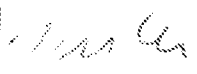
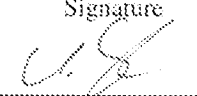
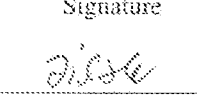
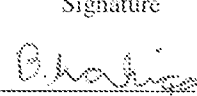
For which the undersigned have executed an application for patent in the United States of America Said application having been filed on


February 6, 2018

and assigned Serial No. 15/750,617

- 1) The undersigned agrees to execute all papers necessary in connection with this application and any continuing or divisional applications thereof and also to execute separate assignments in connection with such applications as the Assignees may deem necessary or expedient.
- 2) The undersigned agrees to execute all papers necessary in connection with any matter which may be declared concerning this application or any continuing or divisional applications thereof and to cooperate with the Assignees in every way possible in obtaining evidence and going forward with such matter.
- 3) The undersigned agrees to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Union for Protection of Industrial Property or similar agreements.
- 4) The undersigned agrees to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent in the name of the Assignees.
- 5) The undersigned hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all Letters Patents of the United States resulting from this application or any continuing or divisional applications thereof to the said Assignees, as Assignees of the entire interest, and hereby covenants that they have full right to convey the entire interest herein assigned, and that they have not executed, and will not execute any agreement in conflict herewith.
- 6) Assignors hereby further assign to Assignees all claims and causes of action for infringement of the patent rights assigned herein, including the right to sue for, and collect damages for, any and all acts of past and future infringement.

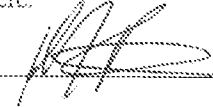
In witness whereof, executed by the undersigned on the dates opposite the undersigned names.

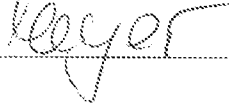
Date	Name of Inventor	<b>Uwe</b> <b>PARTSCH</b>		(SEAL)
<u>05.03.18</u>		typed name	Signature	
Date	Name of Inventor	<b>Adrian</b> <b>GOLDBERG</b>		(SEAL)
<u>05.03.18</u>		typed name	Signature	
Date	Name of Inventor	<b>Steffen</b> <b>ZIESCHE</b>		(SEAL)
<u>05.03.18</u>		typed name	Signature	
Date	Name of Inventor	<b>Birgit</b> <b>MANHICA</b>		(SEAL)
<u>05.03.18</u>		typed name	Signature	

Date	<u>9-17-18</u>	Name of Inventor	<b>Carolin LOHRBERG</b>		(SEAL)
			typed name	Signature	
Date		Name of Inventor	<b>Wolfgang DÜRFELD</b>		(SEAL)
			typed name	Signature	
Date		Name of Inventor	<b>Dietmar ARNDT</b>		(SEAL)
			typed name	Signature	
Date		Name of Inventor	<b>Wolfram KERN</b>		(SEAL)
			typed name	Signature	

The assignment should preferably be signed before a United States Consul if signed abroad, or a Notary Public if domestically signed. If not, then the execution by the inventors should be witnessed by at least two witnesses who sign here.

Additional inventor's names on a separate sheet

Witness 

Witness 

JH 9/12 (Copying without deletions permitted)  
 ICH-9/12-248.1

Date	Name of Inventor	Carolin LOHRBERG	(SEAL)
		typed name	Signature
Date <u>6.2.78</u>	Name of Inventor	Wolfgang DÜRFELD	(SEAL)
		typed name	Signature
Date <u>6.2.78</u>	Name of Inventor	Dietmar ARNDT	(SEAL)
		typed name	Signature
Date <u>6.2.78</u>	Name of Inventor	Wolfram KERN	(SEAL)
		typed name	Signature

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Additional inventor's names on a separate sheet

Witness

Witness

JH 9/12 (Copying without deletions permitted)  
JCH-9/12-248.1



Date	Name of Inventor	Carolín LOHRBERG	(SEAL)
		typed name	Signature
Date	Name of Inventor	Wolfgang DÜRFELD	(SEAL)
<u>6.2.18</u>			<i>[Signature]</i>
Date	Name of Inventor	Dietmar ARNDT	(SEAL)
<u>6.2.18</u>		typed name	Signature
Date	Name of Inventor	Wolfram KERN	(SEAL)
<u>6.2.18</u>		typed name	Signature
			<i>[Signature]</i>

The assignment should preferably be signed before a United States Consul if signed abroad, or a Notary Public if domestically signed. If not, then the execution by the inventors should be witnessed by at least two witnesses who sign here.

Additional inventor's names on a separate sheet

Witness *[Signature]*

Witness *B. F. ...*

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JCH-9/12-248.1