

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5650400

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
DR. CHRISTIAN WILMS	05/23/2019
DR. HERBERT BÖRGER	06/04/2019
HENNING BÖRGER	06/26/2019
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	COVESTRO DEUTSCHLAND AG
<b>Street Address:</b>	KAISER-WILHELM-ALLEE 60
<b>City:</b>	LEVERKUSEN
<b>State/Country:</b>	GERMANY
<b>Postal Code:</b>	51373
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16481301
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(412)355-6501
<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>	(412)355-6323
<b>Email:</b>	PIUSPatents@klgates.com
<b>Correspondent Name:</b>	WILLIAM E. KUSS
<b>Address Line 1:</b>	210 SIXTH AVENUE
<b>Address Line 2:</b>	K&L GATES CENTER
<b>Address Line 4:</b>	PITTSBURGH, PENNSYLVANIA 15222-2613
<b>ATTORNEY DOCKET NUMBER:</b>	190275PCTUS/2017P30005WOU
<b>NAME OF SUBMITTER:</b>	WILLIAM E. KUSS
<b>SIGNATURE:</b>	/William E. Kuss/
<b>DATE SIGNED:</b>	08/02/2019
<b>Total Attachments: 6</b>	
source=Assignment#page1.tif	
source=Assignment#page2.tif	
source=Assignment#page3.tif	

source=Assignment#page4.tif

source=Assignment#page5.tif

source=Assignment#page6.tif

**ASSIGNMENT WITH DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.63)****ASSIGNMENT**

Whereas, I/We, the undersigned inventor(s) hereinafter called assignor(s), have invented certain improvements described in the application identified below, and

Whereas, 1 COVESTRO DEUTSCHLAND AG of 1 Kaiser-Wilhelm-Allee 60, 51373 Leverkusen, DE, (assignee), desires to acquire the entire right, title, and interest in the application and invention, and to any United States patents to be obtained therefor,

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

I/We, the above named assignor(s), hereby sell, assign and transfer to the above named assignee, its successors, legal representatives, and assigns, my/our entire right, title and interest, if any, in the invention and the application for the United States of America, including all direct and indirect divisions, continuations, and continuations-in-part thereof, and all original, extended, reissued, reviewed, and reexamined Letters Patent of the United States, and all countries foreign thereto, that may be granted thereon, including rights of priority under the International Convention of Paris (1883) as amended, including the right to claim priority under 35 U S C §119, and I/we request the Director of the U S Patent and Trademark Office to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns, and I/we hereby agree that the assignee may apply for foreign Letters Patent on the invention and I/we will without further consideration, communicate all facts known to me/us and execute without further consideration all papers deemed necessary by the assignee in connection with the United States and foreign applications when called upon to do so by the assignee, its successors, legal representatives, or assigns I/We further represent and warrant that I/We have the full right to convey the interest assigned by this assignment, and that I/We have not granted any rights inconsistent with the rights granted herein I/We further acknowledge an obligation of assignment of this invention to assignee at the time the invention was made

(Legalization not required for recording but is prima facie evidence of execution under 35 U S C §261)

**DECLARATION**

As a below named inventor, I hereby declare that this assignment with declaration is directed to

☐ The attached application, OR ☒ United States Application or PCT International Application  
Number PCT/EP2018/052221 filed on 2018-01-30 (Confirmation No  
      )

**PRE-AIA**

My residence, mailing address, and citizenship are as stated below next to my name

I believe the inventor(s) named below to be the original and first inventor(s) of the subject matter which is claimed and for which a patent is sought on the invention titled  
DEVICE HAVING FREE-RUNNING COOLING ROLLERS FOR PRODUCING A FIBRE COMPOSITE MATERIAL IN  
THE FORM OF A FIBRE STRIP IMPREGNATED WITH POLYMER, A METHOD FOR PRODUCING SAID FIBRE  
STRIP, AN IMPREGNATED FIBRE STRIP AND A MULTI-LAYER COMPOSITE PRODUCED FROM THE  
IMPREGNATED FIBRE STRIP

I hereby state that I have reviewed and understand the contents of the above identified application, including the claims, as amended by any amendment specifically referred to above

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon

**POST-AIA**

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

I believe 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 assignment with declaration is punishable under 18 USC 1001 by fine or imprisonment of not more than five (5) years, or both

**Authorization To Permit Access To Application by Participating Office**

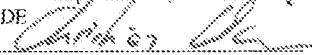
☐ If checked, the undersigned hereby grants the USPTO authority to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the World Intellectual Property Office (WIPO), and any other intellectual property offices in which a foreign application claiming priority to the above-identified application is filed access to the above-identified patent application See 37 CFR 1.14(c) and (h) This box should not be checked if the applicant does not wish the EPO, JPO, KIPO, or other intellectual property office in which a foreign application claiming priority to the above-identified application is filed to have access to the application

In accordance with 37 CFR 1.14(h)(3), access will be provided to a copy of the application-as-filed with respect to: 1) the above-identified patent application-as-filed, 2) any foreign application to which the above-identified application claims priority under 35 USC 119(a)-(d) if a copy of the foreign application that satisfies the certified copy requirement of 37 CFR 1.55 has been filed in the above-identified patent application, and 3) any U.S. application-as-filed from which benefit is sought in the above-identified patent application.

In accordance with 37 CFR 1.14(c), access may be provided to information concerning the date of filing the Authorization to Permit Access to Application by Participating Office.

FULL NAME OF INVENTOR:  
RESIDENCE:  
POST OFFICE ADDRESS:  
CITIZENSHIP:  
SIGNATURE / DATE

1. Dr. Christian WILMS  
41470 Neuss, DE  
Alte Hauptstraße 15, 41470 Neuss, DE  
DE

 2013-05-23

FULL NAME OF INVENTOR:  
RESIDENCE:  
POST OFFICE ADDRESS:  
CITIZENSHIP:  
SIGNATURE / DATE

2. Dr. Herbert BÖRGER  
91477 Markt Bibart, DE  
Am Mühlberg 20, 91477 Markt Bibart, DE  
DE

\_\_\_\_\_

FULL NAME OF INVENTOR:  
RESIDENCE:  
POST OFFICE ADDRESS:  
CITIZENSHIP:  
SIGNATURE / DATE

3. Henning BÖRGER  
91427 Nürnberg, DE  
An der Rösselwiese 12, 91427 Nürnberg, DE  
DE

\_\_\_\_\_

**ASSIGNMENT WITH DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.63)****ASSIGNMENT**

Whereas, I/We, the undersigned inventor(s) hereinafter called assignor(s), have *invented certain improvements described in the application identified below, and*

Whereas, I COVESTRO DEUTSCHLAND AG of 1 Kaiser-Wilhelm-Allee 60, 51373 Leverkusen, DE, (assignee), desires to acquire the entire right, title, and interest in the application and invention, and to any United States patents to be obtained therefor,

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

I/We, the above named assignor(s), hereby sell, assign and transfer to the above named assignee, its successors, legal representatives, and assigns, my/our entire right, title and interest, if any, in the invention and the application for the United States of America, including all direct and indirect divisions, continuations, and continuations-in-part thereof, and all original, extended, reissued, reviewed, and reexamined Letters Patent of the United States, and all countries foreign thereto, that may be granted thereon, including rights of priority under the International Convention of Paris (1883) as amended, including the right to claim priority under 35 U S C §119, and I/we request the Director of the U S Patent and Trademark Office to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns, and I/we hereby agree that the assignee may apply for foreign Letters Patent on the invention and I/we will without further consideration, communicate all facts known to me/us and execute without further consideration all papers deemed necessary by the assignee in connection with the United States and foreign applications when called upon to do so by the assignee, its successors, legal representatives, or assigns I/We further represent and warrant that I/We have the full right to convey the interest assigned by this assignment, and that I/We have not granted any rights inconsistent with the rights granted herein I/We further acknowledge an obligation of assignment of this invention to assignee at the time the invention was made

(Legalization not required for recording but is *prima facie* evidence of execution under 35 U S C §261)

**DECLARATION**

As a below named inventor, I hereby declare that this assignment with declaration is directed to

☐ The attached application, OR ☒ United States Application or PCT International Application  
Number PCT/EP2018/052221 filed on 2018-01-30 (Confirmation No  
\_\_\_\_\_)

**PRE-AIA**

My residence, mailing address, and citizenship are as stated below next to my name

I believe the inventor(s) named below to be the original and first inventor(s) of the subject matter which is claimed and for which a patent is sought on the invention titled

DEVICE HAVING FREE-RUNNING COOLING ROLLERS FOR PRODUCING A FIBRE COMPOSITE MATERIAL IN  
THE FORM OF A FIBRE STRIP IMPREGNATED WITH POLYMER, A METHOD FOR PRODUCING SAID FIBRE  
STRIP, AN IMPREGNATED FIBRE STRIP AND A MULTI-LAYER COMPOSITE PRODUCED FROM THE  
IMPREGNATED FIBRE STRIP

I hereby state that I have reviewed and understand the contents of the above identified application, including the claims, as amended by any amendment specifically referred to above

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon

**POST-AIA**

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

I believe 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 assignment with declaration is punishable under 18 USC 1001 by fine or imprisonment of not more than five (5) years, or both

**Authorization To Permit Access To Application by Participating Office**

☐ If checked, the undersigned hereby grants the USPTO authority to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the World Intellectual Property Office (WIPO), and any other intellectual property offices in which a foreign application claiming priority to the above-identified application is filed access to the above-identified patent application. See 37 CFR 1.14(c) and (h). This box should not be checked if the applicant does not wish the EPO, JPO, KIPO, or other intellectual property office in which a foreign application claiming priority to the above-identified application is filed to have access to the application

In accordance with 37 CFR 1.14(h)(3), access will be provided to a copy of the application-as-filed with respect to: 1) the above-identified patent application-as-filed, 2) any foreign application to which the above-identified application claims priority under 35 USC 119(a)-(d) if a copy of the foreign application that satisfies the certified copy requirement of 37 CFR 1.55 has been filed in the above-identified patent application, and 3) any U.S. application-as-filed from which benefit is sought in the above-identified patent application.

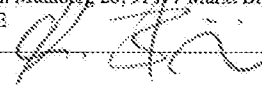
In accordance with 37 CFR 1.14(c), access may be provided to information concerning the date of filing the Authorization to Permit Access to Application by Participating Office.

FULL NAME OF INVENTOR:  
RESIDENCE:  
POST OFFICE ADDRESS:  
CITIZENSHIP:  
SIGNATURE / DATE

1. Dr. Christian WILMS  
41470 Neuss, DE  
Alte Hauptstraße 15, 41470 Neuss, DE  
DE

FULL NAME OF INVENTOR:  
RESIDENCE:  
POST OFFICE ADDRESS:  
CITIZENSHIP:  
SIGNATURE / DATE

2. Dr. Herbert BÖRGER  
91477 Markt Bibart, DE  
Am Mühlberg 20, 91477 Markt Bibart, DE  
DE

 2019-06-04

FULL NAME OF INVENTOR:  
RESIDENCE:  
POST OFFICE ADDRESS:  
CITIZENSHIP:  
SIGNATURE / DATE

3. Henning BÖRGER  
91427 Nürnberg, DE  
An der Rösselwiese 12, 91427 Nürnberg, DE  
DE

**ASSIGNMENT WITH DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.63)****ASSIGNMENT**

Whereas, I/We, the undersigned inventor(s) hereinafter called assignor(s), have invented certain improvements described in the application identified below, and

Whereas, I COVESIRO DEUTSCHLAND AG of 1 Kaiser-Wilhelm-Allee 60, 51373 Leverkusen, DE, (assignee), desires to acquire the entire right, title, and interest in the application and invention and to any United States patents to be obtained therefor,

Now therefore, for valuable consideration receipt whereof is hereby acknowledged,

I/We, the above named assignor(s), hereby sell assign and transfer to the above named assignee its successors, legal representatives, and assigns my/our entire right, title and interest, if any, in the invention and the application for the United States of America, including all direct and indirect divisions, continuations, and continuations-in-part thereof, and all original, extended, reissued, reviewed, and reexamined Letters Patent of the United States, and all countries foreign thereto, that may be granted thereon, including rights of priority under the International Convention of Paris (1883) as amended, including the right to claim priority under 35 U S C §119, and I/we request the Director of the U S Patent and Trademark Office to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns and I/we hereby agree that the assignee may apply for foreign Letters Patent on the invention and I/we will without further consideration, communicate all facts known to me/us and execute without further consideration all papers deemed necessary by the assignee in connection with the United States and foreign applications when called upon to do so by the assignee, its successors legal representatives, or assigns I/We further represent and warrant that I/We have the full right to convey the interest assigned by this assignment and that I/We have not granted any rights inconsistent with the rights granted herein I/We further acknowledge an obligation of assignment of this invention to assignee at the time the invention was made

(Legalization not required for recording but is prima facie evidence of execution under 35 U S C §261)

**DECLARATION**

As a below named inventor, I hereby declare that this assignment with declaration is directed to

☐ The attached application OR ☒ United States Application or PCT International Application  
Number PCT/EP2018/052221 filed on 2018-01-30 (Confirmation No  
\_\_\_\_\_)

**PRE-AIA**

My residence, mailing address, and citizenship are as stated below next to my name

I believe the inventor(s) named below to be the original and first inventor(s) of the subject matter which is claimed and for which a patent is sought on the invention titled

DEVICE HAVING FREE-RUNNING COOLING ROLLERS FOR PRODUCING A FIBRE COMPOSITE MATERIAL IN  
THE FORM OF A FIBRE STRIP IMPREGNATED WITH POLYMER, A METHOD FOR PRODUCING SAID FIBRE  
STRIP, AN IMPREGNATED FIBRE STRIP AND A MULTI-LAYER COMPOSITE PRODUCED FROM THE  
IMPREGNATED FIBRE STRIP

I hereby state that I have reviewed and understand the contents of the above identified application, including the claims, as amended by any amendment specifically referred to above

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon

**POST-AIA**

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

I believe 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 assignment with declaration is punishable under 18 USC 1001 by fine or imprisonment of not more than five (5) years, or both

**Authorization To Permit Access To Application by Participating Office**

☐ If checked, the undersigned hereby grants the USPTO authority to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO) the World Intellectual Property Office (WIPO) and any other intellectual property offices in which a foreign application claiming priority to the above-identified application is filed access to the above-identified patent application See 37 CFR 1.14(c) and (h) This box should not be checked if the applicant does not wish the EPO, JPO, KIPO, or other intellectual property office in which a foreign application claiming priority to the above-identified application is filed to have access to the application

In accordance with 37 CFR 1.14(b)(3), access will be provided to a copy of the application-as-filed with respect to: 1) the above-identified patent application-as-filed, 2) any foreign application to which the above-identified application claims priority under 35 USC 119(a)-(d) if a copy of the foreign application that satisfies the certified copy requirement of 37 CFR 1.55 has been filed in the above-identified patent application, and 3) any U.S. application-as-filed from which benefit is sought in the above-identified patent application.

In accordance with 37 CFR 1.14(c), access may be provided to information concerning the date of filing the Authorization to Permit Access to Application by Participating Office.

FULL NAME OF INVENTOR:  
RESIDENCE:  
POST OFFICE ADDRESS:  
CITIZENSHIP:  
SIGNATURE / DATE:

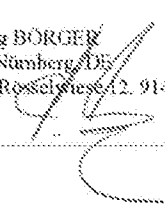
1. Dr. Christian WILMS  
41470 Neuss, DE  
Ahl Hauptstraße 15, 41470 Neuss, DE  
DE

FULL NAME OF INVENTOR:  
RESIDENCE:  
POST OFFICE ADDRESS:  
CITIZENSHIP:  
SIGNATURE / DATE:

2. Dr. Herbert BÖRGER  
91477 Markt Bibart, DE  
Am Mühlberg 20, 91477 Markt Bibart, DE  
DE

FULL NAME OF INVENTOR:  
RESIDENCE:  
POST OFFICE ADDRESS:  
CITIZENSHIP:  
SIGNATURE / DATE:

3. Henning BÖRGER  
91427 Nürnberg, DE  
An der Rösselschneise 12, 91427 Nürnberg, DE  
DE

 26.06.2019