505107357 09/24/2018

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5154117

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JUTTA ARENS	08/31/2018
RALF BORCHARDT	09/14/2018
PETER CHRISTIAN SCHLANSTEIN	08/31/2018
THOMAS SCHMITZ-RODE	08/31/2018
LOTTE SCHRAVEN	09/09/2018
GEORG WAGNER	08/31/2018
ULRICH STEINSEIFER	09/21/2018

RECEIVING PARTY DATA

Name:	RHEINISCH-WESTFAELISCHE TECHNISCHE HOCHSCHULE AACHEN
Street Address:	TEMPLERGRABEN 55
City:	AACHEN
State/Country:	GERMANY
Postal Code:	52062

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16084129

CORRESPONDENCE DATA

Fax Number: (212)808-0844

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.

using a lax number, if provided, if that is unsuccessful, it will be sent via 05 ma

Phone: 212-808-0700

Email: cbhamburg@norris-law.com **Correspondent Name:** C. BRUCE HAMBURG

Address Line 1: NORRIS MCLAUGHLIN & MARCUS, P.A.

Address Line 2: 875 THIRD AVENUE, 8TH FLOOR Address Line 4: NEW YORK, NEW YORK 10022

ATTORNEY DOCKET NUMBER:	122047-16
NAME OF SUBMITTER:	C. BRUCE HAMBURG
SIGNATURE:	/C. BRUCE HAMBURG/
DATE SIGNED:	09/24/2018

This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 7

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Allomey Cocket (vo.: 12204/~)	
COMBINATION DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT	
Title of Invention SYSTEM FOR THE EXTRACORPOREAL ELIMINATION OF CARBON MONOXIDE	
As the below named inventor, I hereby declare that:	
This declaration is directed to: ☐ The above-identified application, or	
☐ United States application, filed on or	
■ PCT application number PCT/EP2017/000202, filed on February 14, 2017.	
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 c imprisonment of not more than five (5) years, or both.	
I hereby state that I have reviewed and understand the contents of the above-identified application, including the claims, a 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 furthe 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	
For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each undersigned inventor has sold and assigned, and by these presents hereby sells and assigns, unto: Rheinisch-Westfaelische Technische Hochschule Aachen whose address is Templergraben 55, 52062 Aachen, Germany, a German corporation (hereinafter named "Assignee"), its successors, legal representatives and assigns, the entire right, title and interest in and to said invention for Letters Patent of the United States, filed as said application and to the entire right, title and interest in any and all inventions, whether joint or sole, disclosed in said application for Letters Patent, and in any and all divisional or continuation or renewal applications that may be filed for United States Letters Patent for any and all of said inventions, and in and to any and all patents that may be granted on the foregoing applications and any reissue or extension thereof.	
I hereby authorize and request the Commissioner of Patents to issue any and all of said Letters Patent to said Assignee.	
For said consideration, I hereby agree upon the request of said Assignee, its successors, legal representatives or assigns to execute any and all United States divisional, continuation and renewal applications for said invention, and any and a necessary oaths, supplemental oaths or declarations or supplemental declarations or affidavits relating thereto, and an application for the reissue or extension of any United States Letters Patent that may be granted upon said application that said Assignee, its successors, legal representatives or assigns may deem necessary or expedient.	
For the said consideration, I further agree upon the request of said Assignee, its successors, legal representatives or assigns, in the event of said application or any division thereof, or Letters Patent issued thereon or any reissue or application for the reissue thereof, becoming involved in interference, to cooperate to the best of my ability with said Assignee, its successors, legal representatives or assigns in the matters of preparing and executing the Preliminary Statement and giving and producing evidence in support thereof, I hereby agree to perform upon such request, any and all affirmative acts necessary to obtain said Letters Patent and vest all rights therein hereby conveyed in said Assignee, its successors, legal representatives or assigns as fully and entirely as the same would have been held and enjoyed if this assignment and sale had not been made.	
I hereby bind myself, my heirs, legal representatives, administrators, and assign properly to execute without further consideration, any and all applications, petitions, patitions, assignments or other papers and instruments which may be necessar in order to carry into full force and effect the sale, assignment and transfer hereby made, or intended or agreed to be made.	
And for said considerations, I hereby assign to said Assignee, its successors, legal representatives and assigns, the entire right, title and interest in said invention or improvement for any and all foreign countries and agree upon the request of said Assignee, its successors, legal representatives or assigns to execute any and all documents that shall be required to be executed in connection with any and all applications for foreign Letters Patent therefor, including the prosecution thereof, and to execute any and all documents necessary to invest title in said foreign applications and patents in said Assignee, it successors, legal representatives or assigns.	
I POAT MARIE OF MUESTOS	
Inventor: Jutta ARENS Date: 31. Aug. 2018 Signature:	
Note: An application data sheet (PTO/AIA/14 or equivalent), including naming the entire inventive entity, must accompany this form. Use an additional PTO/SB/AIA01 form for each additional inventor.	

Norris McLaughlin & Marcus, P.A.

Attorney Docket No.: 122047-16 COMBINATION DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN <u>APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT</u> Title of invention SYSTEM FOR THE EXTRACORPOREAL ELIMINATION OF CARBON MONOXIDE As the below named inventor, I hereby declare that: This declaration is directed to:

☐ The above-identified application, or ☐ United States application ____, filed on _____ ■ PCT application number PCT/EP2017/000202, filed on February 14, 2017. 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. 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 further continuation-in-part applications, material information which became available between the filling date of the prior application and the national or PCT international filing date of the continuation-in-part application For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each undersigned inventor has sold and assigned, and by these presents hereby sells and assigns, unto: Rheinisch-Westfaelische Technische Hochschule Aachen whose address is Templergraben 55, 52062 Aachen, Germany, a German corporation (hereinafter named "Assignee"), its successors, legal representatives and assigns, the entire right, title and interest in and to said invention for Letters Patent of the United States, filed as said application and to the entire right, title and interest in any and all inventions, whether joint or sole, disclosed in said application for Letters Patent, and in any and all divisional or continuation or renewal applications that may be filed for United States Letters Patent for any and all of said inventions, and in and to any and all patents that may be granted on the foregoing applications and any reissue or extension thereof. I hereby authorize and request the Commissioner of Patents to issue any and all of said Letters Patent to said Assignee. For said consideration, I hereby agree upon the request of said Assignee, its successors, legal representatives or assigns, to execute any and all United States divisional, continuation and renewal applications for said invention, and any and all necessary paths, supplemental paths or declarations or supplemental declarations or affidavits relating thereto, and any application for the reissue or extension of any United States Letters Patent that may be granted upon said application that said Assignee, its successors, legal representatives or assigns may deem necessary or expedient, For the said consideration, I further agree upon the request of said Assignee, its successors, legal representatives or assigns, in the event of said application or any division thereof, or Letters Patent issued thereon or any reissue or application for the reissue thereof, becoming involved in interference, to cooperate to the best of my ability with said Assignee, its successors, legal representatives or assigns in the matters of preparing and executing the Preliminary Statement and giving and producing evidence in support thereof, I hereby agree to perform upon such request, any and all affirmative acts necessary to obtain said Letters Patent and vest all rights therein hereby conveyed in said Assignee, its successors, legal representatives or assigns as fully and entirely as the same would have been held and enjoyed if this assignment and sale had not been made. I hereby bind myself, my heirs, legal representatives, administrators, and assign properly to execute without further consideration, any and all applications, petitions, oaths, assignments or other papers and instruments which may be necessary in order to carry into full force and effect the sale, assignment and transfer hereby made, or intended or agreed to be made, And for said considerations, I hereby assign to said Assignee, its successors, legal representatives and assigns, the entire right, title and interest in said invention or improvement for any and all foreign countries and agree upon the request of said Assignee, its successors, legal representatives or assigns to execute any and all documents that shall be required to be executed in connection with any and all applications for foreign Letters Patent therefor, including the prosecution thereof, and to execute any and all documents necessary to invest title in said foreign applications and patents in said Assignee, its successors, legal representatives or assigns. LEGAL NAME OF INVENTOR Date: 44 4 Spt 2018 inventor: Ralf BORCHARDT Signature: RA Royal Grand

Note: An application data sheet (PTO/AIA/14 or equivalent), including naming the entire inventive entity, must accompany this

form. Use an additional PTO/SB/AIA01 form for each additional inventor.

PATENT

REEL: 046947 FRAME: 0316

•	LARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN PLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT
harran ha	YSTEM FOR THE EXTRACORPOREAL ELIMINATION OF CARBON MONOXIDE
As the below named invento This declaration is directed t	or, I hereby declare that: to: ☐ The above-identified application, or ☐ United States application, filed on or
	PCT application number <u>PCT/EP2017/000202</u> , filed on <u>February 14, 2017</u> .
The above-identified app	lication was made or authorized to be made by me.
I believe that I am the original	ginal inventor or an original joint inventor of a claimed invention in the application.
I hereby acknowledge the imprisonment of not more th	at any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or an five (5) years, or both.
I hereby state that I have amended by any amendmer	reviewed and understand the contents of the above-identified application, including the claims, as at specifically referred to above,
continuation-in-part applicat	o disclose information which is material to patentability as defined in 37 CFR 1.56, including further ions, material information which became available between the filing date of the prior application mational filing date of the continuation-in-part application
inventor has sold and assign Hochschule Aachen whos named "Assignee"), its succ for Letters Patent of the U inventions, whether joint or a renewal applications that ma all patents that may be grant	consideration, the receipt and sufficiency of which are hereby acknowledged, each undersigned ned, and by these presents hereby sells and assigns, unto: Rheinisch-Westfaelische Technische e address is Templergraben 55, 52062 Aachen, Germany, a German corporation (hereinafter essors, legal representatives and assigns, the entire right, title and interest in and to said invention Inited States, filed as said application and to the entire right, title and interest in any and all sole, disclosed in said application for Letters Patent, and in any and all divisional or continuation or ay be filed for United States Letters Patent for any and all of said inventions, and in and to any and ted on the foregoing applications and any reissue or extension thereof.
I hereby authorize and re	quest the Commissioner of Patents to issue any and all of said Letters Patent to said Assignee.
to execute any and all Uni necessary caths, suppleme application for the reissue or	hereby agree upon the request of said Assignee, its successors, legal representatives or assigns, ted States divisional, continuation and renewal applications for said invention, and any and all ental oaths or declarations or supplemental declarations or affidavits relating thereto, and any rextension of any United States Letters Patent that may be granted upon said application that said gal representatives or assigns may deem necessary or expedient.
assigns, in the event of said for the reissue thereof, bec successors, legal represent and producing evidence in necessary to obtain said Le	on, I further agree upon the request of said Assignee, its successors, legal representatives or application or any division thereof, or Letters Patent issued thereon or any reissue or application coming involved in interference, to cooperate to the best of my ability with said Assignee, its atives or assigns in the matters of preparing and executing the Preliminary Statement and giving support thereof. I hereby agree to perform upon such request, any and all affirmative acts etters Patent and vest all rights therein hereby conveyed in said Assignee, its successors, legal is fully and entirely as the same would have been held and enjoyed if this assignment and sale had
consideration, any and all ag	ny heirs, legal representatives, administrators, and assign properly to execute without further oplications, petitions, oaths, assignments or other papers and instruments which may be necessary e and effect the sale, assignment and transfer hereby made, or intended or agreed to be made.
right, title and interest in sa Assignee, its successors, it executed in connection with	ns, I hereby assign to said Assignee, its successors, legal representatives and assigns, the entire id invention or improvement for any and all foreign countries and agree upon the request of said egal representatives or assigns to execute any and all documents that shall be required to be any and all applications for foreign Letters Patent therefor, including the prosecution thereof, and cuments necessary to invest title in said foreign applications and patents in said Assignee, its atives or assigns.
LEGAL NAME OF INVENT	OR
Inventor: Peter Christian S	CHLANSTEIN Date: 31-08-18
Signature: Page	and the second s
	t (PTO/AIA/14 or equivalent), including naming the entire inventive entity, must accompany this
	B/AIAC1 form for each additional inventor.

Attorney Utcket No.: 122047-18	
COMBINATION DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT	
SYSTEM FOR THE EXTRACORPOREAL ELIMINATION OF CARBON MONOXIDE	
s the below named inventor, I hereby declare that:	
his declaration is directed to: ① The above-identified application, or	
☐ United States application, filed on or ☑ PCT application numberPCT/EP2017/000202, filed on _February 14, 2017.	
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 nprisonment of not more than five (5) years, or both.	
I hereby state that I have reviewed and understand the contents of the above-identified application, including the claims, as mended by any amendment specifically referred to above.	
I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.58, including further onlinuation-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	
For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each undersigned inventor has sold and assigned, and by these presents hereby sells and assigns, unto: Rheinisch-Westfaelische Technische lochschule Aschen whose address is Templergraben 55, 52062 Aachen, Germany, a German corporation (hereinafter amed "Assignee"), its successors, legal representatives and assigns, the entire right, title and interest in and to said invention or Letters Patent of the United States, filed as said application and to the entire right, title and interest in any and all inventions, whether joint or sole, disclosed in said application for Letters Patent, and in any and all divisional or continuation or enewal applications that may be filed for United States Letters Patent for any and all of said inventions, and in and to any and it patents that may be granted on the foregoing applications and any reissue or extension thereof.	
I hereby authorize and request the Commissioner of Patents to issue any and all of said Letters Patent to said Assignee.	
For said consideration, I hereby agree upon the request of said Assignee, its successors, legal representatives or assigns, a execute any and all United States divisional, continuation and renewal applications for said invention, and any and all ecessary paths, supplemental paths or declarations or supplemental declarations or affidavits relating thereto, and any opplication for the reissue or extension of any United States Letters Patent that may be granted upon said application that said assignee, its successors, legal representatives or assigns may deem necessary or expedient.	
For the said consideration, I further agree upon the request of said Assignee, its successors, legal representatives or assigns, in the event of said application or any division thereof, or Letters Patent issued thereon or any reissue or application for the reissue thereof, becoming involved in interference, to cooperate to the best of my ability with said Assignee, its successors, legal representatives or assigns in the matters of preparing and executing the Preliminary Statement and giving and producing evidence in support thereof, I hereby agree to perform upon such request, any and all affirmative acts necessary to obtain said Letters Patent and vest all rights therein hereby conveyed in said Assignee, its successors, legal representatives or assigns as fully and entirely as the same would have been held and enjoyed if this assignment and sale had not been made.	
I hereby bind myself, my heirs, legal representatives, administrators, and assign properly to execute without further passideration, any and all applications, petitions, caths, assignments or other papers and instruments which may be necessary properties of intended or agreed to be made.	
And for said considerations, I hereby assign to said Assignee, its successors, legal representatives and assigns, the entire right, title and interest in said invention or improvement for any and all foreign countries and agree upon the request of said Assignee, its successors, legal representatives or assigns to execute any and all documents that shall be required to be executed in connection with any and all applications for foreign Letters Patent therefor, including the prosecution thereof, and to execute any and all documents necessary to invest title in said foreign applications and patents in said Assignee, its successors, legal representatives or assigns.	
FGAL NAME OF INVENTOR / /	
nventor: Thomas SCHMITZ-BODE Date: All flust 57, 2018	
Signature: //_ /////	

Note: An application data sheat (PTO/AIA/14 or equivalent), including naming the entire inventive entity, must accompany this form. Use an additional PTO/SB/AIA01 form for each additional inventor.

Client Ref : BO/ki 750087US P.A.

Norris McLaughlin & Marcus,

Attorney Docket No.: 122047-16

Norris McLaughlin & Marcus, P.A.

Client Ref.: BO/ki 750087US Attorney Docket No.: 122047-16 COMBINATION DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT Title of Invention SYSTEM FOR THE EXTRACORPOREAL ELIMINATION OF CARBON MONOXIDE As the below named inventor, I hereby declare that: This declaration is directed to:

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Note: An application data sheet (PTO/AIA/14 or equivalent), including naming the entire inventive entity, must accompany this

Signature: LSC/L

form. Use an additional PTO/SB/AIA01 form for each additional inventor.

COMBINATION DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT	
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LEGAL NAME OF INVENT	OR ~ / ^ / V
Inventor: Georg WAGNER Signature:	Date: 31.08.18
	t (PTO/AIA/14 or equivalent), including naming the entire inventive entity, must accompany this
	it (P10/AIA/14 or equivalent), including naming the entire inventive entity, most accompany tris 8/AIA01 form for each additional inventor.

RECORDED: 09/24/2018

Attorney Docket No.: 122047-16

COMBINATION DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT Title of Invention SYSTEM FOR THE EXTRACORPOREAL ELIMINATION OF CARBON MONOXIDE As the below named inventor, I hereby declare that: This declaration is directed to: The above-identified application, or United States application _____, filed on _____ PCT application number PCT/EP2017/000202, filed on February 14, 2017. 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. 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 further 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 For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each undersigned inventor has sold and assigned, and by these presents hereby sells and assigns, unto: Rheinisch-Westfaelische Technische Hochschule Aachen whose address is Templergraben 55, 52062 Aachen, Germany, a German corporation (hereinafter for Letters Patent of the United States, filed as said application and to the entire right, title and interest in any and all inventions, whether joint or sole, disclosed in said application for Letters Patent, and in any and all divisional or continuation or renewal applications that may be filed for United States Letters Patent for any and all of said inventions, and in and to any and all patents that may be granted on the foregoing applications and any reissue or extension thereof. 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I further agree upon the request of said Assignee, its successors, legal representatives or assigns, in the event of said application or any division thereof, or Letters Patent issued thereon or any reissue or application for the reissue thereof, becoming involved in interference, to cooperate to the best of my ability with said Assignee, its successors, legal representatives or assigns in the matters of preparing and executing the Preliminary Statement and giving and producing evidence in support thereof, I hereby agree to perform upon such request, any and all affirmative acts necessary to obtain said Letters Patent and vest all rights therein hereby conveyed in said Assignee, its successors, legal representatives or assigns as fully and entirely as the same would have been held and enjoyed if this assignment and sale had not been made. I hereby bind myself, my heirs, legal representatives, administrators, and assign properly to execute without further consideration, any and all applications, petitions, oaths, assignments or other papers and instruments which may be necessary in order to carry into full force and effect the sale, assignment and transfer hereby made, or intended or agreed to be made. And for said considerations, I hereby assign to said Assignee, its successors, legal representatives and assigns, the entire right, title and interest in said invention or improvement for any and all foreign countries and agree upon the request of said Assignee, its successors, legal representatives or assigns to execute any and all documents that shall be required to be executed in connection with any and all applications for foreign Letters Patent therefor, including the prosecution thereof, and to execute any and all documents necessary to invest title in said foreign applications and patents in said Assignee, its successors, legal representatives or assigns. LEGAL NAME OF INVENTOR Inventor: Ulrich STEI SEIFER Date: 21.09.2018 Note: An application data sheet (PTO/AIA/14 or equivalent), including naming the entire inventive entity, must accompany this form. Use an additional PTO/SB/AIA01 form for each additional inventor.