PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5655398

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
THOMAS ENDRESS	06/19/2019
DANIEL SZABO	06/27/2019
FREDERIC BERKERMANN	06/18/2019
NATALI MELGAREJO DIAZ	06/25/2019
CARL CHRISTIAN BRAZEL	06/17/2019
MICHAEL PLATZOEDER	07/22/2019

RECEIVING PARTY DATA

Name:	MERCK PATENT GMBH
Street Address:	FRANKFURTER STRASSE 250
City:	DARMSTADT
State/Country:	GERMANY
Postal Code:	64293

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16440148

CORRESPONDENCE DATA

Fax Number: (312)569-3533

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.

Phone: 3125691476

Email: Irina.Mikitiouk@dbr.com

RICHARD A. WULFF, DRINKER BIDDLE & REATH Correspondent Name:

Address Line 1: 191 N. WACKER DRIVE, SUITE 3700 Address Line 4: CHICAGO, ILLINOIS 60606-1698

ATTORNEY DOCKET NUMBER:	074025-0600-00-US-590185
NAME OF SUBMITTER:	RICHARD A. WULFF
SIGNATURE:	/Richard A. Wulff/
DATE SIGNED:	08/06/2019

Total Attachments: 6

PATENT REEL: 049977 FRAME: 0422

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DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1. 76) AND ASSIGNMENT METHODS AND SYSTEMS FOR TOKEN-BASED ANCHORING OF A PHYSICAL OBJECT IN A DISTRIBUTED LEDGER ENVIRONMENT Title of Invention As the below named Inventor, I hereby declare that: [] The attached application, or This declaration [x] United States application or PCT international application number 16/440,148 is directed to: filed on June 13, 2019. 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. WHEREAS, Merck Patent GmbH having a place of business at: Frankfurter Strasse 250, 64293 Darmstadt, Germany (hereinafter referred to as "ASSIGNEE(S)") is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries; NOW, THEREFORE, for good and valuable consideration the receipt and sufficiency of which is hereby acknowledged, I, by these presents do assign and transfer unto said ASSIGNEE(S), the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries (including the right to claim priority under the terms of the International Convention and other relevant International Treaties and Arrangements from the aforesaid application) and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof. I hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE(S) as the assignee of my entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE(S), its (his) successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me had this Assignment and sale not been made. Further, I agree that I will communicate to said ASSIGNEE(S) or its (his) representatives any facts known to me respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said ASSIGNEE(S), make all rightful oaths, and, generally do everything possible to aid sald ASSIGNEE(S). its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries. 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. LEGAL NAME OF INVENTOR Date Inventor: Thomas Endress Signature:

DECLARATION (37 CFR 1.63) FOR UTILITY OF	OPESION APPLICATION USING AN
DECLARATION (37 CFR 1.63) FUNCTION OF APPLICATION DATA SHEET (37 CFR	1.76) AND ASSIGNMENT
Title of METHODS AND SYSTEMS FOR TO Invention PHYSICAL OBJECT IN A DISTRIBL	
As the below named inventor, I hereby declare that	
Of	
is directed to: [x] United States application or PCT into	ernetional application number 16/440,148
The above identified application was made or authorized to t	je meas cy min
believe that I am the original inventor or an original joint invi	SUIDLOI & Clear services and any and any
WHEREAS, Merck Patent GmbH having a place of busines Germany	s at: Frankfurter Strasse 250, 64293 Darmstaut,
(hereinafter referred to as "ASSIGNEE(S)") is desirous of acquiring the entire right, title and interest in a Patent that may be granted therefore in the United State and all foreign countries.	
NOV THEREFORE for good and valuable considerably acknowledged. I by these presents do assign an exclusive right to the said invention in the United States countries (including the right to claim priority under the leaseward international Treaties and Arrangements from the and interest in and to any and all Letters Patent who and its territorial possessions and in any and all foreign relisates continuations, substitutions and renewals thereof.	and its territorial possessions and in an creeding of the International Convention and other the afpressed application) and the entire right, it may be granted therefor in the United States countries and in and to any and all divisions.
to sed ASSIGNEF(S) as the assignee of my entire right sole use and behoof of said ASSIGNEE(S), its his term for which said Letters Patient may be granted, as his man and the man as the said as the s	ht, title and interest in and to the same, to concessors and assigns, to the full end of the ally and entirely as the same would have been
Further, I agree that I will communicate to said ASS known to me respecting said invention, and testify in execute all divisional continuation, substitute, renewal assignment papers to cause any and all of said Letter make all rightful caths, and generally do everything successors and assigns, to obtain and enforce properland its territorial possessions and in any and all foreign continuations.	and reissue applications, execute all necessary Patent to be issued to said ASSIGNEE(S) possible to aid said ASSIGNEE(S), its (his) protection for said invention in the United States intries.
I hereby acknowledge that any willful false statement U.S.C. 1001 by fine or imprisonment of not more than five	Walfe IV IVIE OSCISIERON IS harmaneans a
LEGAL NAME OF INVENTOR	22.06.79
Inventor Daniel Szabo	Date 2 / UU i j

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Title of	METHODS AND SYSTEMS FOR TOKEN	ENGER ENVIRONMENT
Invention	PHYSICAL OBJECT IN A DISTRIBUTED	LEDOLIV LISSON OF THE PROPERTY
	amed inventor, I hereby declare that:	
This declaration	n [] The attached application, or [X] United States application or PCT internations	al application number 16/440,148
is directed to:	filed on June 13, 2019.	
The above-ide	ntified application was made or authorized to be made	Dy the.
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WHEREAS, N Germany	flerok Patent GmbH having a place of business at: Fre	ankfurter Strasse 250, 64293 Darmstadt,
is desirous of Patent that m	ferred to as "ASSIGNEE(S)") acquiring the entire right, title and interest in and to s ay be granted therefore in the United States and it in countries;	() () () () () () () () () ()
NOW, THEREFORE, for good and valuable consideration the receipt and sufficiency of which is hereby acknowledged, I, by these presents do assign and transfer unto said ASSIGNEE(S), the full and hereby acknowledged, I, by these presents do assign and transfer unto said ASSIGNEE(S), the full and hereby acknowledged, I, by these presents do assign and its territorial possessions and in all foreign exclusive right to the said invention in the United States of the International Convention and other countries (including the right to claim priority under the terms of the International Convention and other countries and application) and the entire right, relevant International Treaties and Arrangements from the aforesaid application) and the entire right, relevant International Treaties and all Letters Patent which may be granted therefor in the United States unto its territorial possessions and in any and all foreign countries and in and to any and all divisions, and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.		
I hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE(S) as the assignee of my entire right, title and interest in and to the same, for to said ASSIGNEE(S), its (his) successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been their the patent may be granted.		
Further, I agree that I will communicate to said ASSIGNEE(S) or its (his) representatives any facts known to me respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewel and reissue applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said ASSIGNEE(S), assignment papers to cause any and all of said Letters Patent to be issued to said ASSIGNEE(S), its (his) make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE(S), its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its torribodal possessions and in any and all foreign countries.		
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.		
LEGAL NAI	ME OF INVENTOR	
	rederic Berkermann	Date: 18 6 2019
	Mallan	~~~

Signature:

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Invention	PHYSICAL OBJECT IN A DISTRIBUTED E	Control of the state of the sta
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This declaration	n [] The attached application, or [x] United States application or PCT international	application number 16/440,148
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The above-ide	entified application was made or authorized to be made	by me.
I believe that	am the original inventor or an original joint inventor of a	g claimed invention in the street
WHEREAS, I	Merck Patent GmbH having a place of business at: Fra	nkfurter Strasse 250, 64293 Darmstadt,
is desirous of Patent that n	eferred to as "ASSIGNEE(S)") if acquiring the entire right, title and interest in and to so hay be granted therefore in the United States and it an countries;	
NOW, THEREFORE, for good and valuable consideration the receipt and sufficiency of which is hereby acknowledged, I, by these presents do assign and transfer unto said ASSIGNEE(S), the full and hereby acknowledged, I, by these presents do assign and transfer unto said ASSIGNEE(S), the full and hereby acknowledged, I, by these presents do assign and transfer unto said ASSIGNEE(S), the full and hereby acknowledged, I, by these presents do assign and its territorial possessions and in all foreign countries of the International Convention and other countries (including the right to claim priority under the terms of the International Convention and other countries (including the right to claim priority under the aforesaid application) and the entire right, relevant International Treaties and Arrangements from the aforesaid application) and the entire right, relevant International Interest in and to any and all divisions, and its territorial and its territorial interest in and to any and all divisions, and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, possessions and any and all foreign countries to said ASSIGNEE(S) or its (his) representatives any facts. Further, I agree that I will communicate to said ASSIGNEE(S) or its (his) representatives any facts.		
Further, I agree that I will communicate to said ASSIGNEE(S) or its (ins) representations and invention, and testify in any legal proceeding, sign all lawful papers, known to me respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary execute al		
LEGAL NA	ME OF INVENTOR	
	latali Melgarejo Diaz	Date: 25.06.2019
Signature:	Tady y	

Signature:

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1, 76) AND ASSIGNMENT METHODS AND SYSTEMS FOR TOKEN-BASED ANCHORING OF A Title of PHYSICAL OBJECT IN A DISTRIBUTED LEDGER ENVIRONMENT Invention As the below named Inventor, I hereby declare that: [] The attached application, or This declaration [x] United States application or PCT international application number 16/440,148 is directed to: filed on June 13, 2019. 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. WHEREAS, Merck Patent GmbH having a place of business at: Frankfurter Strasse 250, 64293 Darmstadt, Germany (hereinafter referred to as "ASSIGNEE(S)") is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries: NOW, THEREFORE, for good and valuable consideration the receipt and sufficiency of which is hereby acknowledged, I, by these presents do assign and transfer unto said ASSIGNEE(S), the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries (including the right to claim priority under the terms of the International Convention and other relevant International Treaties and Arrangements from the aforesaid application) and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof. I hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE(S) as the assignee of my entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE(S), its (his) successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me had this Assignment and sale not been made. Further, I agree that I will communicate to said ASSIGNEE(S) or its (his) representatives any facts known to me respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said ASSIGNEE(S). make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE(S), its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries. 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. LEGAL NAME OF INVENTOR Date: JUNE 17, 2019 Inventor: Carl Christian Brazel

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Signature:

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APPLICATION DATA SHEET (3/ CFK 1, 76) AND ASSIGNMENT		
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LEGAL NAME OF INVENTOR		
Inventor: Michael Platzoeder	Date: 22. 7. 2019	
// . 仏みがい Signature:		

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RECORDED: 08/06/2019