PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT4987448

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SIMON SIEMIANOWSKI	03/28/2018
KONSTANTIN SCHNEIDER	04/03/2018

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:	15780769

CORRESPONDENCE DATA

Fax Number: (703)243-6410

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: 703-243-6333 Email: mail@mwzb.com

Correspondent Name: MILLEN, WHITE, ZELANO & BRANIGAN - AMB

Address Line 1: 2200 CLARENDON BLVD.

Address Line 2: **SUITE 1400**

Address Line 4: ARLINGTON, VIRGINIA 22201

ATTORNEY DOCKET NUMBER:	MERCK-4726
NAME OF SUBMITTER:	AUBREY M. BROOKS
SIGNATURE:	/Aubrey M. Brooks/
DATE SIGNED:	06/01/2018
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 2

source=MERCK-4726_DualDecAssignment#page1.tif source=MERCK-4726_DualDecAssignment#page2.tif

PATENT REEL: 045961 FRAME: 0064 504940702

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR SINGLE ASSIGNEE

As the below named inventor, I hereby declare that: This declaration The attached application, or United States Application or PCT International Application number PCT/EP2016/001937 (filed on is directed to: III.12016 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. AND WHEREAS Merck Patent GmbH Frankfurter Strasse 250 541929 Jarmstadd / DE hereinafter referred to as the ASSIGNEE, is desirous of acquiring the entire right, title, and interest in and to said invention and all patent(s) listed above, including any and all earlier priority rights (U.S. and foreign), divisions and continuations thereof, including any and all earlier priority rights (U.S. and foreign), divisions and continuations thereof, including any and all renewals, reissues, reexaminations and extensions thereof. ASSIGNOR hereby assigns, sells, and transfers to ASSIGNEE; is assigns and legal representatives, the entire and exclusive right, title and interest in and to said invention and patent(s), including any and all II cheeves, the entire and exclusive right, title and interest in and to said invention and patent(s), including any and all II enterests, resistence, examinations and extensions thereof, and in and to any and all U.S. (including provisional) or foreign priority and/or convention rights or benefits accruing or to accrue with respect to the filling or securing of patents in the United States and/or any countries foreign thereto concerning said invention, SAJD ASSIGNEE; as assigns and legal representatives to have, hold, exercise, and enjoy said invention and patent, including any and all renewals, reissues, reexaminations and extensions thereof, including the right to sue for damages occurring before the assignment, with all the rights, powers, privileges and advantages in anywise arising from on appertaining herefore, for add uring the term of reruss of any and all such Letters Pate	Title of	LIQUID CRYSTAL MEDIUM AND LIQUID CRYSTAL DEVICE	
This declaration Inlited States Application, or United States Application or PCT International Application number PCT/RP2016/001937, filed on is directed to: Inlited States Application or PCT International Application number PCT/RP2016/001937, filed on is directed to: Inlited States Application or PCT International Application number PCT/RP2016/001937, filed on Inlited States 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. AND WHEREAS Merck Patent GmbH Frankfurter Strasse 250 64293 Darmstadt / DE hereinafter referred to as the ASSIGNEE, is desirous of acquiring the entire right, title, and interest in and to said invention and all patent(s) listed above, including any and all earlier priority rights (U.S. and foreign), divisions and continuations thereof, including any and all remewals, reissues, reexaminations thereof, including any and all divisions and continuations thereof, and interest in and to said invention and patent(s). including any and all divisions and continuations thereof, and all Letters Patent which may be granted therefor, including any and all renewals, reissues, reexaminations thereof, and all Letters Patent which respect to the filing or securing of patents in the United States and/or any countries foreign thereto concerning said invention, SAID ASSIGNEE, its assigns and legal representatives to have, hold, exercise, and enjoy said invention and patent, including any and all earlier priority rights (U.S. and foreign), divisions and continuations thereof, and and all earlier priority rights (U.S. and foreign), divisions and continuations thereof, and and all renewals, reissues, reexaminations and extensions thereof, including the triph to suc for damages occurring before the assignment, with all the rights, powers, privileges and advantages in anywise arising from or appertaining thereto, for and during the term or terms of any and all Letters Patent which ma		ENQUID CRIDIAL MEDICM AND ENQUID CRIDIAL DEVICE	
This declaration Inlited States Application, or United States Application or PCT International Application number PCT/RP2016/001937, filed on is directed to: Inlited States Application or PCT International Application number PCT/RP2016/001937, filed on is directed to: Inlited States Application or PCT International Application number PCT/RP2016/001937, filed on Inlited States 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. AND WHEREAS Merck Patent GmbH Frankfurter Strasse 250 64293 Darmstadt / DE hereinafter referred to as the ASSIGNEE, is desirous of acquiring the entire right, title, and interest in and to said invention and all patent(s) listed above, including any and all earlier priority rights (U.S. and foreign), divisions and continuations thereof, including any and all remewals, reissues, reexaminations thereof, including any and all divisions and continuations thereof, and interest in and to said invention and patent(s). including any and all divisions and continuations thereof, and all Letters Patent which may be granted therefor, including any and all renewals, reissues, reexaminations thereof, and all Letters Patent which respect to the filing or securing of patents in the United States and/or any countries foreign thereto concerning said invention, SAID ASSIGNEE, its assigns and legal representatives to have, hold, exercise, and enjoy said invention and patent, including any and all earlier priority rights (U.S. and foreign), divisions and continuations thereof, and and all earlier priority rights (U.S. and foreign), divisions and continuations thereof, and and all renewals, reissues, reexaminations and extensions thereof, including the triph to suc for damages occurring before the assignment, with all the rights, powers, privileges and advantages in anywise arising from or appertaining thereto, for and during the term or terms of any and all Letters Patent which ma			
United States Application or PCT International Application number PCT/EP2016/001937 filed on is directed to: Its.11.2016 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. AND WHEREAS Merck Patent GmbH	As the below nan	ned inventor, I hereby declare that:	
The above-identified application was made or authorized to be made by me. The believe that I am the original inventor or an original joint inventor of a claimed invention in the application. AND WHEREAS Merck Patent GmbH Frankfurter Strasse 250 64293 Darmstadt / DE hereinafter referred to as the ASSIGNEE, is desirous of acquiring the entire right, title, and interest in and to said invention and all patent(s) listed above, including any and all earlier priority rights (U.S. and foreign), divisions and continuations thereof, including any and all earlier priority rights (U.S. and foreign), divisions and continuations thereof, including any and all earlier priority rights (U.S. and foreign), divisions and continuations thereof, including any said interest in and to said invention and patents), including any and all renewals, reissues, reexaminations and extensions thereof. ASSIGNOR hereby assigns, sells, and transfers to ASSIGNEE, its assigns and legal representatives, the entire and exclusive right, title and interest in and to said invention and patents, including any and all renewals, reissues, reexaminations and extensions thereof, and in and to any and all U.S. (including provisional) or foreign priority and/or convention rights or benefits accruing or to accrue with respect to the filting or securing of patents in the United States and/or any countries foreign thereto concerning said invention, SAID ASSIGNEE, its assigns and legal representatives to have, hold, exercise, and enjoy said invention and patent, including any and all earlier priority rights (U.S. and foreign), divisions and continuations and extensions thereof, including the right to sue for damages occurring before the assignment, with all the rights, powers, privileges and advantages in anywise arising from or appertaining thereto, for and during the term or terms of any and all such Letters Patent, including any and all renewals, reissues, reexaminations and extensions thereof, for the use and beneficial a manner to all intents and purpos	This declaration	The attached application, or	
I believe that I am the original inventor or an original joint inventor of a claimed invention in the application. AND WHEREAS Merck Patent GmbH Frankfurter Strasse 250 64293 Darmstadt / DE hereinafter referred to as the ASSIONEE, is desirous of acquiring the entire right, title, and interest in and to said invention and all patent(s) listed above, including any and all earlier priority rights (U.S. and foreign), divisions and continuations thereof, including any and all renewals, reissues, reexaminations and extensions thereof. NOW, WITNESSETH that for good and valuable consideration, the receipt whereof is hereby acknowledged, ASSIGNOR hereby assigns, sells, and transfers to ASSIGNEE, its assigns and legal representatives, the entire and exclusive right, title and interest in and to said invention and patent(s), including any and all divisions and continuations thereof, and any and all Letters Patent which may be granted therefor, including any and all remewals, reissues, reexaminations and extensions thereof, and in and to any and all U.S. (including provisional) or foreign priority and/or convention rights or benefits accruing or to accrue with respect to the filing or securing of patents in the United States and/or any countries foreign theretic concerning said invention. SAID ASSIGNEE, its assigns and legal representatives to have, hold, exercise, and enjoys aid invention and patent, including any and all earlier priority rights (U.S. and foreign), divisions and continuations thereof, any and all Letters Patent which may be granted therefor, including any and all renewals, reissues, reexaminations and extensions thereof, for the assignment, with all the rights, powers, privileges and advantages in anywise arising from or appertaining thereto, for and during the term or terms of any and all such Letters Patent, including any and renewals, reissues, reexaminations and extensions thereof, for the use and benefit of ASSIGNEE and benefit of ASSIGNEE and advantages in anywise arising from or appertaining the	is directed to:		
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fine or imprisonment of not more than five (5) years, or both. LEGAL NAME OF INVENTOR	IN TESTIMONY WHEREOF this assignment is executed by ASSIGNOR		
Inventor: SIEMIANOWSKI, Simon Date:			
	Inventor: S	MEMIANOWSKI, Simon Date:	

Millen, White, Zelano & Branigan, P.C. Attorneys at Law Arlington Courthouse Plaza 2200 Clarendon Boulevard | Suite 1400 | Arlington VA 22201 Telephone: 703.243.6333 | Fax: 703.243.6410 Email: mail@mwzb.com

Signature:

Effective, September 16, 2012

PATENT REEL: 045961 FRAME: 0065

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR SINGLE ASSIGNEE

Title of Invention	LIQUID CRYSTAL MEDIUM AND LIQUID CRYSTAL DEVICE	
As the below nam	ed invento	or, I hereby declare that:
This declaration		The attached application, or
is directed to:		United States Application or PCT International Application number <u>PCT/EP2016/001937</u> filed on <u>18.11.2016</u>
The above-identif	ied applica	ation was made or authorized to be made by me.
I believe that I am	the origin	al inventor or an original joint inventor of a claimed invention in the application.
all patent(s) listed	od to as the above, inc	derck Patent GmbH rankfurter Strasse 250 4293 Darmstadt / DE ASSIGNEE, is desirous of acquiring the entire right, title, and interest in and to said invention and cluding any and all earlier priority rights (U.S. and foreign), divisions and continuations thereof, als, reissues, reexaminations and extensions thereof.
ASSIGNOR herel right, title and into and all Letters Part thereof, and in any to accrue with res invention, SAID a including any and which may be graright to sue for da arising from or ap renewals, reissues representatives, in	by assigns, erest in and tent which d to any an pect to the ASSIGNEI all earlier mages occupertaining as ample	ETH that for good and valuable consideration, the receipt whereof is hereby acknowledged, sells, and transfers to ASSIGNEE, its assigns and legal representatives, the entire and exclusive I to said invention and patent(s), including any and all divisions and continuations thereof, and any may be granted therefor, including any and all renewals, reissues, reexaminations and extensions id all U.S. (including provisional) or foreign priority and/or convention rights or benefits accruing or filing or securing of patents in the United States and/or any countries foreign thereto concerning said is assigns and legal representatives to have, hold, exercise, and enjoy said invention and patent, priority rights (U.S. and foreign), divisions and continuations thereof, any and all Letters Patent for, including any and all renewals, reissues, reexaminations and extensions thereof, including the urring before the assignment, with all the rights, powers, privileges and advantages in anywise thereto, for and during the term or terms of any and all such Letters Patent, including any and all nations and extensions thereof, for the use and benefit of ASSIGNEE and its assigns and legal and beneficial a manner to all intents and purposes as the ASSIGNOR might or could have held and grament had not been made.
and foreign count	ries for sai	hereby agrees to execute all papers that may be necessary to file applications in the United States d invention and to assign the same to said ASSIGNEE, its assigns and legal representatives and to t may be needed in connection with securing Letters Patents thereon.
AND ASSIGNOR authorizes and requests the Commissioner of Patents and Trademarks to issue a Letters Patent on any and all divisions and continuations thereof, to ASSIGNEE, its assigns and legal representatives, in accordance herewith.		
The undersigned hereby grant(s) the law firm of Millen, White, Zelano & Branigan, P.C. the power to insert on this assignment information which may be necessary or desirable in order for the United States Patent and Trademark Office to properly record this document.		
	1	N TESTIMONY WHEREOF this assignment is executed by ASSIGNOR
		dge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by more than five (5) years, or both.
LEGAL NAME C Inventor: S		TOR M-Konganiin Date: O304.2018
Signature:		- C. F. Somerick

MILLEN, WHITE, ZELANO & BRANIGAN, P.C.
ATTORNEYS AT LAW
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Effective, September 16, 2012

PATENT REEL: 045961 FRAME: 0066

RECORDED: 06/01/2018