504646212 11/16/2017

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4692932

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
HARALD HIRSCHMANN	07/17/2015
MONIKA BAUER	07/21/2015
MARTINA WINDHORST	07/21/2015
MARCUS REUTER	07/20/2015
CONSTANZE BROCKE	07/22/2015
ROCCO FORTTE	07/22/2015
MATTHIAS BREMER	07/23/2015
SABINE SCHOEN	07/27/2015

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:	15722460

CORRESPONDENCE DATA

Correspondent Name:

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

Address Line 1: MILLEN, WHITE, ZELANO & BRANIGAN, P.C. Address Line 2: 2200 CLARENDON BLVD., SUITE 1400

TIMIKA SNOWDEN

Address Line 4: ARLINGTON, VIRGINIA 22201

ATTORNEY DOCKET NUMBER: MERCK-4363-D03 NAME OF SUBMITTER: TIMIKA SNOWDEN SIGNATURE: /Timika Snowden/

DATE SIGNED:	11/16/2017
	This document serves as an Oath/Declaration (37 CFR 1.63).
Total Attachments: 8	
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source=CombinedDeclarationandAssignment-CopyFromParent#page2.tif	
source=CombinedDeclarationandAssignment-CopyFromParent#page3.tif	
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Fitle of Invention	LIQUID-CRYSTALLINE MEDIUM	
As the below nam	ned inventor, I hereby declare that:	
This declaration	The attached application, or	
· · · · · · · · · · · · · · · · · · ·	United States Application or PCT International Application number 14/740,534 filed on June 16.	
is directed to:	2015	
The above-identi	fied application was made or authorized to be made by me.	
I believe that I an	n the original inventor or an original joint inventor of a claimed invention in the application.	
AND WHEREAS	S	
	MERCK PATENT GMBH	
	Frankfurter Strasse 250 64293 Darmstadt, Germany	
all patent(s) lister	ed to as the ASSIGNEE, is desirous of acquiring the entire right, lifte, and interest in and to said invention and d above, including any and all earlier priority rights (U.S. and foreign), divisions and continuations thereof, d all renewals, reissues, reexaminations and extensions thereof.	
ASSIGNOR here right, title and int and all Letters Pathereof, and in art to accrue with reinvention, SAID including any an which may be gright to sue for d arising from or a renewals, reissue representatives, i	WITNESSETH that for good and valuable consideration, the receipt whereof is hereby acknowledged, eby assigns, sells, and transfers to ASSIGNEE, its assigns and legal representatives, the entire and exclusive terest in and to said invention and patent(s), including any and all divisions and continuations thereof, and any attent which may be granted therefor, including any and all renewals, reissues, reexaminations and extensions and to any and all U.S. (including provisional) or foreign priority and/or convention rights or benefits accruing or spect to the filing or securing of patents in the United States and/or any countries foreign thereto concerning said ASSIGNEE, its assigns and legal representatives to have, hold, exercise, and enjoy said invention and patent, and all entire priority rights (U.S. and foreign), divisions and continuations thereof, any and all Letters Patent anted therefor, including any and all renewals, reissues, reexaminations and extensions thereof, including the lamages occurring before the assignment, with all the rights, powers, privileges and advantages in anywise appertaining thereto, for and during the term or terms of any and all such Letters Patent, including any and all est, reexaminations and extensions thereof, for the use and benefit of ASSIGNEE and its assigns and legal in as ample and beneficial a manner to all intents and purposes as the ASSIGNOR might or could have held and e, if the assignment had not been made.	
AND ASSIGNOR hereby agrees to execute all papers that may be necessary to file applications in the United States and foreign countries for said invention and to assign the same to said ASSIGNEE, its assigns and legal representatives and to execute any other papers that 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.		
	IN TESTIMONY WHEREOF this assignment is executed by ASSIGNOR	
	by acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by ment of not more than five (5) years, or both.	
LEGAL NAME	OF INVENTOR Harald HIRSCHMANN Date: /7/07/2015	
myemor.	Hedd Hill	
Signature:	moral through	

MILLEN, WHITE, ZELANO & BRANIGAN, P.C. ATTORNEYS AT LAW ARLINGTON COURTHOUSE PLAZA 2200 CLARENDON BOULEVARD | SUITE 1400 | ARLINGTON VA 22201 TELEPHONE: 703.243.63331FAX: 703.243.6410

EMAIL: MAIL@MWZB.COM

Effective, September 16, 2012

Title of	LIQUID-CRYSTALLINE MEDIUM
Invention	
As the below nan	ned inventor, I hereby declare that:
This declaration	The attached application, or
Rang Decida Historia	United States Application or PCT International Application number <u>14/740.534</u> filed on <u>June 16.</u>
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The above-identit	fied application was made or authorized to be made by me.
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AND WHEREAS	
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	Frankfurter Strasse 250 64293 Darmstadt, Germany
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1	OF INVENTOR Monika BAUER Date: 21 07 15
Inventor:	Monika BAUER Date: 2/04/6
Signature:	St Hear

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

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This declaration	The attached application, or	
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is directed to:		
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I believe that I an	n 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, Germany	
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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 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 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, any and all Letters Patent which may be granted therefor, 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 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 benefit of ASSIGNEE and its assigns and legal representatives, in as ample and beneficial a manner to all intents and purposes as the ASSIGNOR might or could have held and		
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	by acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by ment of not more than five (5) years, or both.	
	OF INVENTOR Martina WINDHORST Date: 21,07, 20,5	
Signature:	Marting Okyherit	

MILLEN, WHITE, ZELANO & BRANIGAN, P.C.
ATTORNEYS AT LAW
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2200 CLARENDON BOULEVARD | SUITE 1400 | ARLINGTON V A 2220 |
TELEPHONE: 703.243.6333 | FAX: 703.243.6410
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Effective, September 16, 2012

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This declaration	
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LEGAL NAME	OF INVENTOR Marcus REUTER Date: 20157 1/11
Signature:	Marcon Post

Millen, White, Zelano & Branigan, P.C.
Attorneys at Law
Arlington Courthouse Plaza
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LEGAL NAME	COF INVENTOR Constanze BROCKE Date: 22 07 1 1/5	
Signature:	Cantaux Frolle	

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Title of Invention	LIQUID-CRYSTALLINE MEDIUM	
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	OF INVENTOR Rocco FORTE // Date: 27. 07. 69.75	
Signature:	10001/14	

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LEGAL NAME	OF INVENTOR 2 7 7 7	
1	OF INVENTOR Matthias BREMER Date: 23-07-15	
Signature:	the Lacres	

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Attorneys at Law
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	MERCK PATENT GMBH Frankfurter Strasse 250 64293 Darmstadt, Germany
nereinafter 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 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 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 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, any and all Letters Patent which may be granted therefor, 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 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 benefit of ASSIGNOE and its assigns and legal representatives, in as ample and beneficial a manner to all intents and purposes as the ASSIGNOR might or could have held and enjoyed the same, if the assignment had not been made.	
AND ASSIGNOR hereby agrees to execute all papers that may be necessary to file applications in the United States and foreign countries for said invention and to assign the same to said ASSIGNEE, its assigns and legal representatives and to execute any other papers that may be needed in connection with securing Letters Palents 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.	
	IN TESTIMONY WHEREOF this assignment is executed by ASSIGNOR
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.	
	OF INVENTOR Sabine SCHOEN Date: 27 Juli 2015
Signature:	G Shiren

MILLEN, WHITE, ZELANO & BRANIGAN, P.C.
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