PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3277797

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
CONSTANZE BROCKE	12/02/2014
CHRISTIAN JASPER	12/05/2014
DETLEF PAULUTH	12/03/2014
ATSUTAKA MANABE	12/09/2014

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:	14430460	

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-AEW

Address Line 1: 2200 CLARENDON BLVD.

Address Line 2: SUITE 1400

Address Line 4: ARLINGTON, VIRGINIA 22201

NAME OF SUBMITTER: ASHLEY WEBER /Ashley Weber/ DATE SIGNED: 03/23/2015 This document serves as an Oath/Declaration (37 CFB 1.63).	ATTORNEY DOCKET NUMBER:	MERCK-4295
DATE SIGNED: 03/23/2015	NAME OF SUBMITTER:	ASHLEY WEBER
	SIGNATURE:	/Ashley Weber/
This document serves as an Oath/Declaration (37 CFB 1.63).	DATE SIGNED:	03/23/2015
		This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 4

PATENT REEL: 035233 FRAME: 0161

503231179

source=EXECUTED_DUAL_DEC_ASSIGNMENT#page1.tif
source=EXECUTED_DUAL_DEC_ASSIGNMENT#page2.tif
source=EXECUTED_DUAL_DEC_ASSIGNMENT#page3.tif
source=EXECUTED_DUAL_DEC_ASSIGNMENT#page4.tif

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		AL MIXTURES
As the below nam	ned invento	rt, I hereby declare that:
This declaration		The attached application, or
is directed to:		United States Application or PCT International Application number <u>PCT/EP2013/002642</u> filed on <u>3</u> <u>September 2013</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	F 6 to as the labove, in	derck Patent GmbH rankfurter Strasse 250 4293 Darmstadt / DE 4283 Darmstadt / DE 4284 ASSIGNEE, is desirous of acquiring the entire right, title, and interest in and to said invention and childing any and all earlier priority rights (U.S. and foreign), divisions and continuations thereof, alls, reissues, reexaminations and extensions thereof.
ASSIGNOR herei right, title and inte and all Letters Par thereof, and in an- to accrue with res invention, SAID / including any and which may be gra- right to sue for da arising from or ap renewals, roissues representatives, in	by assigns, erest in and tent which do any ar pect to the ASSIGNE. I all earlier amages occupantainings, reexaminas 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 it 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 and 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 E, its 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 surring 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	thereby agrees to execute all papers that may be necessary to file applications in the United States dinvention and to assign the same to said ASSIGNEE, its assigns and legal representatives and to it may be needed in connection with securing Letters Patents thereon.
		authorizes and requests the Commissioner of Patents and Trademarks to issue a Letters Patent on ntinuations thereof, to ASSIGNEE, its assigns and legal representatives, in accordance herewith.
	nation whi	nereby grant(s) the law firm of Millen, White, Zelano & Branigan, P.C. the power to insert on this or may be necessary or desirable in order for the United States Patent and Trademark Office to nt.
		IN TESTIMONY WHEREOF this assignment is executed by ASSIGNOR
		edge 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	OF INVEN	TOR
	Constanze	Brocke Date: J. AJ. AY
Signature:	Q0	N. C. O. C. T. T. C.

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

Effective, September 16, 2012

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		UNDS CONTAINING A C-C TRIPLE BOND AND THE USE THEREOF IN LIQUIDAL MIXTURES
As the below nam	ed invento	r, I hereby declare that:
This declaration		The attached application, or
is directed to:		United States Application or PCT International Application number <u>PCT/EP2013/002642</u> filed on <u>3</u> September 2013
The above-identif	ied applica	tion 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	Fined to as the labove, inc	lerck Patent GmbH cankfurter 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 cartier priority rights (U.S. and foreign), divisions and continuations thereof, als, reissues, reexaminations and extensions thereof.
ASSIGNOR here right, title and int and all Letters Pa thereof, and in an to accrue with res invention, SAID including any and which may be graright to sue for datarising from or aprenewals, reissue representatives, it enjoyed the same AND A and foreign count execute any other AND A and all division The uncassignment inform properly record the same of the country	by assigns, erest in and tent which do any an inpect to the ASSIGNEI all earlier uned there operationing s, reexamir as ample, if the assi assignor as assignor as and codersigned I mation which is docume	sells, and transfers to ASSIGNEE, its assigns and legal representatives, the entire and exclusive it 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 of 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 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 all testings 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 curring 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 lations 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 grantent had not been made. Thereby agrees to execute all papers that may be necessary to file applications in the United States of invention and to assign the same to said ASSIGNEE, its assigns and legal representatives and to at may be necessary or desirable in order for the United States Patents thereon. Authorizes and requests the Commissioner of Patents and Trademarks to issue a Letters Patent on intinuations thereof, to ASSIGNEE, its assigns and legal representatives, in accordance herewith. Thereby grant(s) the law firm of Millen, White, Zelano & Branigan, P.C. the power to insert on this chimal be necessary or desirable in or
LEGAL NAME		
Inventor:	Christian Ja	sper Date: ()> 11. CO/(*
Signature:		MINC PL

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

Effective, September 16, 2012

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	COMPOUNDS CONTAINING A C-C TRIPLE BOND AND THE USE THEREOF IN LIQUID- CRYSTAL MIXTURES		
As the below nan	ned invent	ntor, I hereby declare that:	
This declaration		The attached application, or	
is directed to:		United States Application or PCT International Application number <u>PCT/EP2013/002642</u> filed on <u>3</u> <u>September 2013</u>	
		ication was made or authorized to be made by me.	
I believe that I an	ı the origi	rinal inventor or an original joint inventor of a claimed invention in the application.	
all patent(s) listed	ed to as th	Merck Patent GmbH Frankfurter Strasse 250 64293 Darmstadt / DE he ASSIGNEE, is desirous of acquiring the entire right, title, and interest in and to said invention and including any and all earlier priority rights (U.S. and foreign), divisions and continuations thereof, wals, reissues, reexaminations and extensions thereof.	
ASSIGNOR here right, title and int and all Letters Pathereof, and in an to accrue with resinvention, SAID including any and which may be graying to sue for dearising from or a grenewals, reissue representatives, is enjoyed the same AND A and foreign countexecute any other AND A any and all divisition or improperly record title fine or imprisonal LEGAL NAME.	by assignate erest in artent which do any a spect to the ASSIGNE fall earlies annued them amages occupertaining, as ample, if the assigned them as ample, if the assigned eresigned mation whis documy acknownent of no	IN TESTIMONY WHEREOF this assignment is executed by ASSIGNOR wledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by or more than five (5) years, or both. ENTOR Date: 2/12/14	
-	DA	a la	
Signature	10 11 11	March Control Section 1981	

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

Effective, September 16, 2012

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	COMPOUNDS CONTAINING A C-C TRIPLE BOND AND THE USE THEREOF IN LIQUID- CRYSTAL MIXTURES		
As the below named invenior, I hereby declare that:			
This declaration		The attached application, or	
is directed to:		United States Application or PCT International Application number <u>PCT/EP2013/002642</u> filed on <u>3</u> September 2013	
		ation was made or authorized to be made by me.	
l believe that I an	the origin	nal inventor or an original joint inventor of a claimed invention in the application.	
all patent(s) listed	Ed to as the	Merck Patent GmbH Frankfurter Strasse 250 4293 Darmstadt / DE 2 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 here right, title and int and all Letters Pathereof, and in an to accrue with resinvention, SAID including any and which may be green to sue for dearising from or agreenewals, reissue representatives, in enjoyed the same AND A and foreign coun execute any other any and all divising The unassignment infort properly record to the fine or imprisonress.	by assigns erest in an atent which do any asspect to the ASSIGNE dell carlier annages out operatining s, reexamin as ample e, if the asspectation as arpapers the ASSIGNOI tries for sar papers the ASSIGNOI ons and condension which document of not a section of the asspectation of the asspectation of the asspectation of the asspectation which as document of not a section of the asspectation of the asspecta	IN TESTIMONY WHEREOF this assignment is executed by ASSIGNOR ledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by timore than five (5) years, or both.	
LEGAL NAME	OF INVEI	XX - EX - So - XX - XX - XX - XX - XX - XX - X	
Signature:	114	St Male	

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

Effective, September 16, 2012

PATENT REEL: 035233 FRAME: 0166

RECORDED: 03/23/2015