### 502726173 03/18/2014

### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT2772779

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
CECILE SCHOTT	01/02/2014
JOHN PATRICK	01/22/2014
KEVIN ADLEM	01/02/2013
LOUISE FARRAND	01/06/2014
GEORG BERNATZ	01/06/2014
ACHIM GOETZ	01/06/2014
PETER BEST	01/02/2014
HERBERT PLACH	12/30/2013

### **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:	13801403

#### 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 via

US Mail.

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

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

Address Line 1: 2200 CLARENDON BLVD

Address Line 2: SUITE 1400

Address Line 4: ARLINGTON, VIRGINIA 22201

ATTORNEY DOCKET NUMBER:	MERCK-3336-D03
NAME OF SUBMITTER:	JANET M. JACOBS
SIGNATURE:	/Janet M. Jacobs/

502726173 REEL: 032461 FRAME: 0733

DATE SIGNED:	03/18/2014
	This document serves as an Oath/Declaration (37 CFR 1.63).
Total Attachments: 8	
source=Declarations#page1.tif	
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source=Declarations#page5.tif	
source=Declarations#page6.tif	
source=Declarations#page7.tif	
source=Declarations#page8.tif	

Title of Invention	LIQUID CRYSTAL SYSTEM AND LIQUID CRYSTAL DISPLAY
As the below nan	ned inventor, I hereby declare that:
This declaration	31,87,31,400
is directed to:	United States Application or PCT International Application number filed on \(\frac{\psi_001}{2001} \text{ A3} \) \(\frac{\psi_001}{2001} \)
The above-identi	fied application was made or authorized to be made by me.
I believe that I ar	n the original inventor or an original joint inventor of a claimed invention in the application.
AND WHEREA	S  MERCK PATENT GMBM  POSTFACH  64271 DARMSTADT  ed to as the ASSIGNEE, is desirous of acquiring the entire right, title, and interest in and to said invention and
all patent(s) liste	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 in and all Letters P: thereof, and in at to accrue with re invention, SAID including any an which may be gright to sue for darising from or a renewals, reissue representatives,	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 atent which may be granted therefor, including any and all renewals, reissues, reexaminations and extensions at 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 earlier 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 es, 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 foreign cour	ASSIGNOR hereby agrees to execute all papers that may be necessary to file applications in the United States are for said invention and to assign the same to said ASSIGNEE, its assigns and legal representatives and to be papers that may be needed in connection with securing Letters Patents thereon.
	ASSIGNOR authorizes and requests the Commissioner of Patents and Trademarks to issue a Letters Patent on sions and continuations thereof, to ASSIGNEE, its assigns and legal representatives, in accordance herewith.
	ndersigned hereby grant(s) the law firm of Millen, White, Zelano & Branigan, P.C. the power to insert on this rmation which may be necessary or desirable in order for the United States Patent and Trademark Office to this document.
	IN TESTIMONY WHEREOF this assignment is executed by ASSIGNOR
fine or imprison	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
Inventor:	CECILE SCHOTT Date: 02.01. 2014
Signature:	

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

Title of Invention	LIQUID CRYSTAL SYSTEM AND LIQUID CRYSTAL DISPLAY
As the below nan	ned inventor, I hereby declare that:
This declaration	The attached application, or
is directed to:	United States Application or PCT International Application number 13/801.403 filed on March 13.
	fied application was made or authorized to be made by me.
I believe that I ar	n the original inventor or an original joint inventor of a claimed invention in the application.
AND WHEREA	
	Merck Patent GmbH Frankfurter Strasse 250 Darmstadt, Germany 64293
all patent(s) liste including any an	red to as the ASSIGNEE, is desirous of acquiring the entire right, title, and interest in and to said invention and id above, including any and all earlier priority rights (U.S. and foreign), divisions and continuations thereof, id all renewals, reissues, reexaminations and extensions thereof.
ASSIGNOR her right, title and in and all Letters P thereof, and in a to accrue with reinvention, SAID including any arwhich may be gright to sue for arising from or renewals, reissurepresentatives, enjoyed the san	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 atterest 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 espect to the filling or securing of patents in the United States and/or any countries foreign thereto concerning said of ASSIGNEE, its assigns and legal representatives to have, hold, exercise, and enjoy said invention and patent, and all earlier priority rights (U.S. and foreign), divisions and continuations thereof, any and all Letters Patent ranted therefor, including any and all renewals, reissues, reexaminations and extensions thereof, including the damages 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 less, 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 the, if the assignment had not been made.
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any and all divi	ASSIGNOR authorizes and requests the Commissioner of Patents and Trademarks to issue a Letters Patent on sions and continuations thereof, to ASSIGNEE, its assigns and legal representatives, in accordance herewith.
assignment info	indersigned hereby grant(s) the law firm of Millen, White, Zelano & Branigan, P.C. the power to insert on this ormation which may be necessary or desirable in order for the United States Patent and Trademark Office to I this document.
	IN TESTIMONY WHEREOF this assignment is executed by ASSIGNOR
I here fine or impriso	eby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by nment of not more than five (5) years, or both.
LEGAL NAM	E OF INVENTOR
Inventor:	John PATRICK Date:
Signature:	Mann

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

	LIQUID CRYSTAL SYSTEM AND LIQUID CRYSTAL DISPLAY
Title of Invention	ELQUID-CKTSTAL STSTEM AND INQUID
As the below nan	ned inventor, I hereby declare that:
This declaration	The attached application, or 13/804, 903
is directed to:	United States Application or PCT International Application number filed on Harth 13, xxi3
The above-identi	ified application was made or authorized to be made by me.
I believe that I ar	m the original inventor or an original joint inventor of a claimed invention in the application.
all waterated lieto	POSTFACH  Red to as the ASSIGNEE, is desirous of acquiring the entire right, title, and interest in and to said invention and ed above, including any and all earlier priority rights (U.S. and foreign), divisions and continuations thereof, and all renewals, reissues, reexaminations and extensions thereof.
ASSIGNOR her right, title and in and all Letters P thereof, and in a to accrue with m invention, SAIL including any at which may be gright to sue for arising from or renewals, reissurepresentatives, enjoyed the san	, WITNESSETH that for good and valuable consideration, the receipt whereof is hereby acknowledged, reby assigns, sells, and transfers to ASSIGNEE, its assigns and legal representatives, the entire and exclusive interest in and to said invention and patent(s), including any and all divisions and continuations thereof, and any extent 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 any and all U.S. (including provisional) or foreign priority and/or convention rights or benefits accruing or espect to the filling or securing of patents in the United States and/or any countries foreign thereto concerning said D.ASSIGNEE, its assigns and legal representatives to have, hold, exercise, and enjoy said invention and patent, and all carlier priority rights (U.S. and foreign), divisions and continuations thereof, any and all Letters Patent granted therefor, including any and all renewals, reissues, reexaminations and extensions thereof, including the damages 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 nes, 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 ne, if the assignment had not been made.
and forming one	ASSIGNOR hereby agrees to execute all papers that may be necessary to file applications in the United States untries for said invention and to assign the same to said ASSIGNEE, its assigns and legal representatives and to her papers that may be needed in connection with securing Letters Patents thereon.
any and all div	O ASSIGNOR authorizes and requests the Commissioner of Patents and Trademarks to issue a Letters Patent on visions and continuations thereof, to ASSIGNEE, its assigns and legal representatives, in accordance herewith.
assignment inf	undersigned hereby grant(s) the law firm of Millen, White, Zelano & Branigan, P.C. the power to insert on this formation which may be necessary or desirable in order for the United States Patent and Trademark Office to d this document.
	IN TESTIMONY WHEREOF this assignment is executed by ASSIGNOR
I her fine or impriso	reby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by comment of not more than five (5) years, or both.
LEGAL NAM	ME OF INVENTOR  Kevin ADLEM  Date: 02/01/2013
Signature:	meser

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

Invention	DIQUID CRYSTAL STSTEM AND DIQUID CRYSTAL DISPLAT
As the below nam	ied inventor, I hereby declare that:
This declaration	The attached application, or
is directed to:	United States Application or PCT International Application number 13/801.403 filed on March 13. 2013
The above-identif	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	
	Merck Potent GmbH Frankfurter Strasse 250 Darmstadt, Germany 64293
all patent(s) listed	ed to as the ASSIGNEE, is desirous of acquiring the entire right, title, and interest in and to said invention and above, including any and all earlier priority rights (U.S. and foreign), divisions and continuations thereof, dell renewals, reissues, reexaminations and extensions thereof.
ASSIGNOR here right, title and int and all Letters Pa thereof, and in ar to accrue with re- invention, SAID including any an- which may be gr- right to sue for di arising from or a renewals, reissue representatives. I	WITNESSETH that for good and valuable consideration, the receipt whereof is hereby acknowledged, by 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 at to any and all U.S. (including provisional) or foreign priority and/or convention rights or benefits accruing or spect to the filling 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, dill earlier 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 amages occurring before the assignment, with all the rights, powers, privileges and advantages in anywise ppertaining thereto, for and during the term or terms of any and all such Letters Patent, including any and all as ample and beneficial a manner to all intents and purposes as the 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.
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The unassignment infor	idersigned hereby grant(s) the law firm of Millen, White, Zelano & Branigan, P.C. the power to insert on this remail on which may be necessary or desirable in order for the United States Patent and Trademark Office to this document.
	IN TESTIMONY WHEREOF this assignment is executed by ASSIGNOR
Lhereby 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 Louise FARRAND Date: 06-01-2014.
Signature:	Il January Dance Off 2014.
4	

Millen, White, Zelano & Brankgan, 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

Title of Invention	LIQUID CRYSTAL SYSTEM AND LIQUID CRYSTAL DISPLAY
As the below nam	ned inventor, I hereby declare that:
This declaration	
is directed to:	United States Application or PCT International Application numberfiled onfiled onfiled onfiled on
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I here fine or imprison	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	Georg BERNATZ Date: 6.1, 2014
Signature:	
L	

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
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Title of Invention	LIQUID CRYSTAL SYSTEM AND LIQUID CRYSTAL DISPLAY
As the below nam	ed inventor, I hereby declare that:
This declaration	The attached application, or
is directed to:	United States Application or PCT International Application number 13/801.403 filed on March 13, 2013
The above-identif	ied application was made or authorized to be made by me.
I believe that I an	the original inventor or an original joint inventor of a claimed invention in the application.
AND WHEREAS	
all patent(s) listed	Merck Patent GmbH Frankfurter Strasse 250 Darmstadt, Germany 64293 ad to as the ASSIGNEE, is desirous of acquiring the entire right, title, and interest in and to said invention and labove, including any and all earlier priority rights (U.S. and foreign), divisions and continuations thereof, all renewals, reissues, reexaminations and extensions thereof.
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The un assignment inform properly record the	dersigned hereby grant(s) the law firm of Millen, White, Zelano & Branigan, P.C. the power to insert on this mation which may be necessary or desirable in order for the United States Patent and Trademark Office to his 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.	
LEGAL NAME	
HIVEHOF;	Achim Goetz Date: 06 Jan 2014
Signature:	R. 160

Millen, White, Zelano & Branigan, P.C.
Attorneys at Law
Arlington Courthouse Plaza
2200 Clarendon Boulevard [Suite 1400 | Arlington V A 22201
Telephone: 703:243.6333 | Fax: 703:243,6410
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Invention	LIQUID CRYSTAL SYSTEM AND LIQUID CRYSTAL DISPLAY	
As the below named inventor, I hereby declare that:		
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is directed to:	United States Application or PCT International Application numberfiled onfiled onfiled onfiled onfiled on	
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I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.		
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I herel fine or imprison	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 Inventor:	OF INVENTOR Peter Best Date: Date: DA. D. 2014	
Signature:	YALL BULL	

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
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Effective, September 16, 2012

Title of	LIQUID CRYSTAL SYSTEM AND LIQUID CRYSTAL DISPLAY	
Invention		
As the below nam	ned inventor, I hereby declare that:	
This declaration	The attached application, or	
is directed to:	United States Application or PCT International Application number 13/801,403 filed on March 13, 2013	
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	
	Downstadt Germany 64293	
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 renewals, reissues, reexaminations and extensions thereof.		
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properly record	IN TESTIMONY WHEREOF this assignment is executed by ASSIGNOR	
Thereby 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.		
	E OF INVENTOR  Herbert Place   Date: 30.12.13	
Inventor:	Herbert Place Date:	
Signature:	-//// // (/ (/ Ch))	
	Millen, White, Zelano & Branigan, P.C.	

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**RECORDED: 03/18/2014** 

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Effective, September 16, 2012

**PATENT** 

REEL: 032461 FRAME: 0742