503758760 03/29/2016

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3805406

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
FAN ZHANG	03/04/2016
XINYANG WANG	03/04/2016
YUBIN FU	03/03/2016
RUIZHI TANG	03/04/2016
DONGQING WU	03/04/2016
XIAODONG ZHUANG	03/11/2016
XINLIANG FENG	03/04/2016

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:	15025768

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

ATTORNEY DOCKET NUMBER:	MERCK-4451
NAME OF SUBMITTER:	ASHLEY BROOKSHIRE
SIGNATURE:	/Ashley Brookshire/
DATE SIGNED:	03/29/2016

This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 7

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Title of Invention	AZABORININE DERIVATIVES, THEIR SYNTHESIS AND USE IN ORGANIC ELECTRONIC DEVICES				
As the below nan	red invento	r, I hereby declare that:			
This declaration	0	The attached application, or			
is directed to:	図	United States Application or PCT Int 16.09.2014	ernational Application	n number <u>PCT/E</u>	<u>:P2014/002497</u> filed on
The above-identit	ied applies	ation was made or authorized to be ma	de by me.		
I believe that I an	the origin	al inventor or an original joint invento	ir of a claimed inventi	on in the applica	ation.
all patent(s) listed including any and NOW, ASSIGNOR here right, title and int and all Letters Pa	od to as the tabove, ince tall renews WITNESS by assigns, erest in anotent which	lerck Patent GmbH rankfurter Strasse 250 4293 Darmstadt / DE ASSIGNEE, is desirous of acquiring cluding any and all earlier priority rightles, reissues, reexaminations and exter ETH that for good and valuable consisells, and transfers to ASSIGNEE, its to said invention and patent(s), including and all U.S. (including and all U.S. (including and all U.S. (including movisional) or f	ats (U.S. and foreign), isions thereof. deration, the receipt we assigns and legal rep ding any and all divisi y and all renewals, rei	divisions and er thereof is hereby resentatives, the ions and continu issues, reexamin	ontinuations thereof, y acknowledged, c entire and exclusive sations thereof, and any nations 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 enjoyed the same, if the assignment had not been made.					
and foreign count	ries for sai	hereby agrees to execute all papers to d invention and to assign the same to a may be needed in connection with s	said ASSIGNEE, its a	ssigns and legal	ns in the United States I representatives and to
AND A any and all divisi	SSIGNOR ons and co	authorizes and requests the Commis- ntinuations thereof, to ASSIGNEE, its	ioner of Patents and T assigns and legal rep	frademarks to iss resentatives, in a	sue a Letters Patent on accordance herewith.
The unassignment information properly record if	nation whi	ereby grant(s) the law firm of Millen, th may be necessary or desirable in or out.	White, Zelano & Bra der for the United Sta	nigan, P.C. the pites Patent and T	power to insert on this Frademark Office to
		IN TESTIMONY WHEREOF this ass	ignment is executed b	y ASSIGNOR	
I hereb fine or imprisonn	y acknowle tent of not	odge that any willful false statement in more than five (5) years, or both.	ade in this declaration	is punishable u	inder 18 U.S.C. 1001 by
LEGAL NAME (OF INVEN Sinyang W		Date:	March	4. 2016
Signature:			ing		

Millen, White, Zelano & Branigan, P.C.
Attorneys at Law
Arlington Courthouse Plaza
2200 Clarendon Boulevard | Suite 1460 | Arlington VA 22201
Telephone: 703.243.6333 | Fax: 703.243.6410
Email: Mail@mwz5.com

Effective, September 16, 2012

Title of Invention	AZABORININE DERIVATIVES, THEIR SYNTHESIS AND USE IN ORGANIC ELECTRONIC DEVICES		
As the below nam	ed invent	or, I hereby declare that:	
This declaration		The attached application, or	
is directed to:	23	United States Application or PCT International Application number <u>PCT/EP2014/002497</u> filed on 16.09.2014	
		ntion was made or authorized to be made by me.	
I believe that I am	the origin	ual inventor or an original joint inventor of a claimed invention in the application.	
AND WHEREAS	p-p-p-		
1 5 8 1) F	ferck Patent GmbH rankfurter Strasse 250 4293 Darmstadt / DE	
an patent(s) hsted	above, in	ASSIGNEE, is desirous of acquiring the entire right, title, and interest in and to said invention and coloring any and all carlier priority rights (U.S. and foreign), divisions and continuations thereof, als, reissues, reexaminations and extensions thereof.	
ASSIGNOR heret right, title and inte and all Letters Par thereof, and in and to accrue with respinyention, SAID A including any and which may be grantight to sue for darrising from or apprenewals, reissues, representatives, in	by assigns, cent which it to any an pect to the ASSIGNEI all carlier mages occ mages occ pertaining , reexamin 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 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 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 urring before the assignment, with all the rights, powers, privileges and advantages in anywise thereto, for and during the term of 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 grament had not been made.	
min ioteign conutt	163 101 83K	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 a may be needed in connection with securing Letters Patents thereon.	
AND AS any and all divisio	SSIGNOR ns and con	authorizes and requests the Commissioner of Patents and Trademarks to issue a Letters Patent on numerations thereof, to ASSIGNEE, its assigns and legal representatives, in accordance herewith.	
The undi assignment inform properly record thi	istion whic	creby grant(s) the law firm of Millen, White, Zelano & Branigan, P.C. the power to insen on this ch may be necessary or desirable in order for the United States Patent and Trademark Office to its.	
	f	N TESTIMONY WHEREOF this assignment is executed by ASSIGNOR.	
I hereby fine or imprisonme	scknowled ent of not i	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 O		TOR	
Inventor: Y	ubin PU	Date:03.03.2016	
Signature:	Yubin		

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

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As the below named inventor, I hereby declare that:					
This declaration					
is directed to:	United States Application or PCT International Application number <u>PCT/EP2014/002497</u> filed on 16.09.2014				
	fied 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.				
all natent(s) lister	Merck Patent GmbH Frankfurter Strasse 250 64293 Darmstadt / DE ed to as the ASSIGNEE, is desirous of acquiring the entire right, title, and interest in and to said invention and I above, including any and all earlier priority rights (U.S. and foreign), divisions and continuations thereof, I all renewals, reissues, reexaminations and extensions thereof.				
ASSIGNOR here right, title and int and all Letters Pathereof, and in an to accrue with reinvention, SAID including any and which may be gright to sue for dearising from or a renewals, reissue representatives, it enjoyed the same	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 erest in and to said invention and patent(s), including any and all divisions and continuations thereof, and any ment 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, if all 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 any wise opertaining thereto, for and during the term or terms of any and all such Letters Patent, including any and all s, 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 to the assignment had not been made.				
and foreign coun	ASSIGNOR hereby agrees to execute all papers that may be necessary to file applications in the United States tries for said invention and to assign the same to said ASSIGNEE, its assigns and legal representatives and to repapers that may be needed in connection with securing Letters Patents thereon.				
AND / any and all divisi	ASSIGNOR authorizes and requests the Commissioner of Patents and Trademarks to issue a Letters Patent on one and continuations thereof, to ASSIGNEE, its assigns and legal representatives, in accordance herewith.				
The un assignment infor properly record t	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 hereb	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 Date March 4 2016				
	ROLEH TANO				
Signature:	Ruizhi Tang				
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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

AZABORININE DERIVATIVES, THEIR SYNTHESIS AND USE IN ORGANIC ELECTRONIC

Title of

Invention	ention DEVICES			
As the below nan	ned invent	or, I hereby declare that:		
This declaration		The attached application, or		
is directed to:	×	United States Application or 16,09,2014	PCT International Applic	ation number PCT/EP2014/002497 filed on
The above-identi	fied applic	ation was made or authorized)	to be made by me.	
I believe that I an	n the origi	nal inventor or an original join	inventor of a claimed in	ention in the application.
AND WHEREAS	š			
	1	Merck Patent GmbH rankfurter Strasse 250 4293 Darmstadt / DE		
all patent(s) lister	l above, ir	e ASSIGNEE, is desirous of ac cluding any and all earlier pric als, reissues, reexaminations a	rity rights (U.S. and forei	tie, and interest in and to said invention and gn), divisions and continuations thereof.
ASSIGNOR here right, title and int and all Letters Pa thereof, and in an to accrue with resinvention, SAID including any answhich may be graph to sue for darising from or at renewals, reissue, representatives, it enjoyed the same AND A and foreign count execute any other	by assignerest in an antent which to any a spect to the ASSIGNE I all earlie anted their amages oc opertainings, recamming as a sample, if the assignment in as ample (SSIGNO) tries for an appearation of the assignment in as a sample (SSIGNO) and the assignment in a sample (SSIGNO) are a sample (SSIGNO) and the assignment in a sample (SSIGNO) and the assig	sells, and transfers to ASSIG dots said invention and patent() may be granted therefor, including provisions filing or securing of patents in E. its assigns and legal represe priority rights (U.S. and forci for, including any and all rene curring before the assignment, thereto, for and during the termations and extensions thereof, and heneficial a manner to all ignment had not been made. Chereby agrees to execute all id invention and to assign the sat may be needed in connection.	NEE, its assigns and legals), including any and all renewals ading any and all renewals all or fureign priority and the United States and/or intatives to have, hold, exagn), divisions and continuwals, reissues, reexaminativith all the rights, power more terms of any and all, for the use and benefit of intents and purposes as the papers that may be necessisting to said ASSIGNEE, in with securing Letters Patents a	pt whereof is hereby acknowledged, representatives, the entire and exclusive ivisions and continuations thereof, and any creissues, reexaminations and extensions for convention rights or benefits accruing or any countries foreign thereto concerning said accise, and enjoy said invention and patent, ations thereof, any and all Letters Patent ions and extensions thereof, including the conventions and extensions thereof, including the confidence and advantages in anywise such Letters Patent, including any and all fassions. Assigned and its assigns and legal the ASSIGNOR might or could have held and any to file applications in the United States its assigns and legal representatives and to tens thereon.
The un	dersigned nation wh	hereby gram(s) the law firm of ich may be necessary or desira	Millen, White, Zelano &	Branigan, P.C. the power to insert on this States Patent and Trademark Office to
		IN TESTIMONY WHEREOF	this assignment is execut	ed by ASSIGNOR
I hereby fine or imprisonn	y acknowl sent of not	edge that any willful false state more than five (5) years, or be	ement made in this declar oth,	tion is punishable under 18 U.S.C. 1001 by
LEGAL NAME (Inventor:	OF INVESTIGATION		Date	04.03.2016
Signature:	10m	ggbry Wu		
		Acres Services		

MILLEN, WHITE, ZELANO & BRANGAN, P.C. ATTORNEYS AT LAW AREINGTON COURTHOUSE PLAZA 2200 CLARENDON BOLLEVARO | SETTE 1400 | ARLINGTON VA 22201 TELEPHONE: 703.243.6333 | FAX: 703.243.6410

Email: mail:@wwzb.com

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Title of Invention	AZABO DEVIC	DRININE DERIVATIVES, THEIR SYNTHESIS AND USE IN ORGANIC ELECTRONIC ES
As the below nam	ed invent	or, I hereby declare that:
This declaration		The attached application, or
is directed to:	123	United States Application or PCT International Application number <u>PCT/EP2014/002497</u> filed on <u>16.09.2014</u>
The above-identif	fied application	ation was made or authorized to be made by me.
I believe that I an	i the origin	nal inventor or an original joint inventor of a claimed invention in the application.
AND WHEREAS		
	F 6	ferck Patent GmbH rankfurter Strasse 250 4293 Darmstadt / DE
all patent(s) listed	l above, in	ASSIGNEE, is desirous of acquiring the entire right, fille, 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 hereitight, title and into and all Letters Parthereof, and in an to accure with resinvention, SAID / including any and which may be graright to sue for datarising from or aprenewals, reissues representatives, in	by assigns, erest in and sent which do any as pect to the ASSIGNE! I all earlier smages occupertaining a reexamir 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 d 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 at 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, 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 arring 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 grantent had not been made.
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I hereby fine or imprisorm	acknowle em of not	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: F		
Signature:	an ZHAN	Basic: Mourch 4.2016 Fam Zh
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Miller, Whete, Zelano & Branigan, P.C.
Attorneys at Law
Arlington Countriouse Plaza
2200 Clarendon Boulevard | Suite 1400 | Arlington Va 22201
Telephone: 703.243.6333 | Par: 703.243.6410
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LEGAL NAME C Inventor: X	FINVENTOR iaodong Zhuang / Date: // May 24//9		
Signature:	Sive dent Turely		
	MILLEN, WHITE, ZELAND & BRANIGAN, P.C. ACTORNEYS AT LAW ARLINGTON COURTHQUISE 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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ARLINGTON CONTORNESS PLARS
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TELEPRONE: 703 243 6333 | Fax: 703 243 6410
Estar: Mari Wangan Com

RECORDED: 03/29/2016

Effective September 16, 2012