#### 11/03/2017 504626509

### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4673227

| SUBMISSION TYPE:      | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT     |

### **CONVEYING PARTY DATA**

| Name          | Execution Date |
|---------------|----------------|
| PEER KIRSCH   | 09/15/2017     |
| ANDREAS RUHL  | 09/18/2017     |
| SUSANN GUNST  | 10/12/2017     |
| MICHAEL JUNGE | 10/24/2017     |
| URSULA PATWAL | 09/20/2017     |
| MILA FISCHER  | 09/26/2017     |

### **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: | 15571645 |  |  |

### **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 mail@mwzb.com Email:

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

Address Line 1: 2200 CLARENDON BLVD.

Address Line 2: **SUITE 1400** 

Address Line 4: ARLINGTON, VIRGINIA 22201

| ATTORNEY DOCKET NUMBER: | MERCK-4647   |
|-------------------------|--|
| NAME OF SUBMITTER:      | AUBREY M. BROOKS   |
| SIGNATURE:              | /Aubrey M. Brooks/   |
| DATE SIGNED:            | 11/03/2017   |
|                         | This document serves as an Oath/Declaration (37 CFR 1.63). |

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### 504626509

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| Title of  | THIADI   | AZOLOQUINOXALINE DERIVATIVES  |
|---|--|---|
| Invention   |  |   |
| f all 1 - 1   | and invento  | or, I hereby declare that:  |
|   |  | The attached application, or  |
| This declaration  |  | United States Application or PCT International Application number PCT/EP2016/000609 filed on  |
| is directed to:   | Ø  | <u>13.04.2016</u>   |
| The above-identi  | fied applie  | ation was made or authorized to be made by me.  |
| I believe that I ar   | n the origir   | nal inventor or an original joint inventor of a claimed invention in the application,   |
| AND WHEREA  |  |   |
| hereinafter referi  | F 6  | Merck Patent GmbH Frankfurter Strasse 250  4293 Darmstadt / DE e ASSIGNEE, is desirous of acquiring the entire right, title, and interest in and to said invention and experimental desirous of acquiring the entire right, title, and interest in and to said invention and experimental desirous and continuations thereof.   |
| all patent(s) liste<br>including any an   | d above, in<br>d all renew   | e ASSIGNEE, is destrous of acquiring the entire rights (U.S. and foreign), divisions and continuations thereof, rals, reissues, reexaminations and extensions thereof.  |
| ASSIGNOR her right, title and in and all Letters P thereof, and in a to accrue with re invention, SAID including any ar which may be gright to sue for carising from or a renewals, reissu representatives, enjoyed the sam | eby assigns atterest in ar atent which and to any a espect to the ASSIGNE and all earlier anted there damages oc appertaining es, reexaming as amplea, if the as | SETH that for good and valuable consideration, the receipt whereof is hereby acknowledged, s, sells, and transfers to ASSIGNEE, its assigns and legal representatives, the entire and exclusive individence to said invention and patent(s), including any and all divisions and continuations thereof, and any any 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 effling or securing of patents in the United States and/or any countries foreign thereto concerning said EE, its assigns and legal representatives to have, hold, exercise, and enjoy said invention and patent, are priority rights (U.S. and foreign), divisions and continuations thereof, any and all Letters Patent efor, including any and all renewals, reissues, reexaminations and extensions thereof, including the excurring before the assignment, with all the rights, powers, privileges and advantages in anywise g thereto, for and during the term or terms of any and all such Letters Patent, including any and all inations and extensions thereof, for the use and benefit of ASSIGNEE and its assigns and legal e and beneficial a manner to all intents and purposes as the ASSIGNOR might or could have held and signment had not been made. |
| - d familian con  | etrica for a   | aid invention and to assign the same to said ASSIGNEE, its assigns and legal representatives and to hat may be needed in connection with securing Letters Patents thereon.  |
| any and all divi  | sions and c  | OR authorizes and requests the Commissioner of Patents and Trademarks to issue a Letters Patent on continuations thereof, to ASSIGNEE, its assigns and legal representatives, in accordance herewith.   |
| The u<br>assignment info<br>properly record   | ormation w   |   |
|   |  | IN TESTIMONY WHEREOF this assignment is executed by ASSIGNOR  |
| I here  | eby acknow<br>nment of n   | vledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by of more than five (5) years, or both.  |
| LEGAL NAMI  | E OF INVE  | ENTOR SCH Date:   |
| Signature:  |  |   |
| Signature.  |  |   |

MILLEN, WHITE, ZELANO & BRANIGAN, P.C.
ATTORNEYS AT LAW
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TELEPHONE: 703.243.6333 | FAX: 703.243.6410
EMAIL: MAIL@MWZB.COM

Effective, September 16, 2012

| Title of   | THIADIAZOLOQUINOXALINE DERIVATIVES   |  |  |
|--|--|--|--|
| Invention  |  |  |  |
| As the below nan   | ned inventor, I hereby declare that:   |  |  |
| This declaration   | A CONTRACTOR OF THE CONTRACTOR |  |  |
| 1 HIS Gerial action  | United States Application or PCT International Application number PCT/EP2016/000609 filed on   |  |  |
| is directed to:  | <b>13.04.2016</b>  |  |  |
| 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   | 8  |  |  |
|  | Merck Patent GmbH Frankfurter Strasse 250  |  |  |
|  | C 4000 TO 5 - 4 - 4 - 1 TO   |  |  |
| hereinafter referi   | red 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,  |  |  |
| including any an   | id above, mending any and an extra production and extensions thereof.  |  |  |
|  | warm in a property that for each and walushle consideration, the receipt whereof is hereby acknowledged,   |  |  |
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| the second of th | and the gold invention and patential including any anti-all thy island continuent on the   |  |  |
|  | raterity 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 and to any and all U.S. (including provisional) or foreign priority and/or convention rights or benefits accruing or  |  |  |
|  | the filling or courring of notante in the United Maies annual any Countries referred   |  |  |
| invention, SAID  | ASSIGNEE, its assigns and legal representatives to have, hold, exercise, and enjoy said the continuations thereof, any and all Letters Patent  |  |  |
|  | 1 1 1 For Including any and all repentals reissies recomminations and conditions includes  |  |  |
| (  | 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 appertaining thereto, for any during the term or terms of any and all such Letters Patent, including any and all   |  |  |
|  |  |  |  |
| renresentatives.   | in as ample and beneficial a manner to all intents and purposes as the Assicinor might of could have not all   |  |  |
| enjoyed the san  | ne, 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 Foundam com  | ASSIGNOR hereby agrees to execute an papers that may be necessary to experience and to intries 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.   |  |  |
| 1  |  |  |  |
| AND  | ASSIGNOR authorizes and requests the Commissioner of Patents and Trademarks to issue a Letters Patent on isions and continuations thereof, to ASSIGNEE, its assigns and legal representatives, in accordance herewith.   |  |  |
| ł  |  |  |  |
| The  | indersigned hereby grant(s) the law firm of Millen, White, Zelano & Branigan, P.C. the power to insert on this primation which may be necessary or desirable in order for the United States Patent and Trademark Office to   |  |  |
| assignment info  | I this document.   |  |  |
| property reces   | IN TESTIMONY WHEREOF this assignment is executed by ASSIGNOR   |  |  |
|  |  |  |  |
| I here   | eby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by  |  |  |
| fine or impriso  | nment of not more than five (5) years, or both.  |  |  |
| LEGAL NAM  | E OF INVENTOR  Andrews PUBLIC  Date:   |  |  |
| Inventor:  | E OF INVENTOR  Andreas RUHL  Date: 19 19 19 19   |  |  |
| Signature:   | Puto Mus   |  |  |
| Signature.   |  |  |  |

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ELEPHONE: 703.243,0333 [FAX: 703.243. EMAIL: MAIL@MWZB.COM

Effective, September 16, 2012

| Title of            | THIADIAZOLOQUINOXALINE DERIVATIVES   |
|---------------------|--|
| Invention           |  |
| As the below nam    | ned inventor, I hereby declare that:   |
| This declaration    | The attached application, or   |
| 2 2115 000111 0000  | United States Application or PCT International Application number PCT/EP2016/000609 filed on   |
| is directed to:     |  |
| 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 GmbH Frankfurter Strasse 250  |
|                     | CARREL TO THE STATE OF THE STAT |
| hereinafter referi  | red 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,  |
| including any an    | id above, including any airs are consistent and extensions thereof.  |
|                     | programmed as a second and appropriate consideration, the receipt whereof is hereby acknowledged,  |
|                     |  |
| right, title and in | nterest in and to said invention and patents), including any and an division and extensions and extensions and extensions  |
|                     |  |
|                     |  |
|                     | 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 all earlier priority rights (U.S. and foreign), divisions and continuations thereof, any and all Letters Patent  |
|                     |  |
| right to sue for o  | damages occurring before the assignment, with all the rights, powers, privileges and davantages and all such Letters Patent, including any and all   |
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| representatives.    | in as ample and beneficial a manner to all intents and purposes as the Assistance and purpose and purpos |
| 1 * -               | ne, 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 untries for said invention and to assign the same to said ASSIGNEE, its assigns and legal representatives and to  |
| and foreign cou     | ner 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   |
| AND                 | ASSIGNOR authorizes and requests the Commissioner of Patents and Indominate to the Assignment of Patents and Continuations thereof, to ASSIGNEE, its assigns and legal representatives, in accordance herewith.  |
|                     | undersigned hereby grant(s) the law firm of Millen, White, Zelano & Branigan, P.C. the power to insert on this   |
| The t               | ormation 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   |
|                     | eby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by  |
| I her               | eby acknowledge that any willful false statement made in this declaration is purious account of not more than five (5) years, or both.   |
| time or impriso     | N.C.   |
|                     | E OF INVENTOR Date: A2. A  |
| Inventor:           | Susann GUNST Date:   |
| Signature:          | - Carly Maria Carlo  |

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Effective, September 16, 2012

| Title of<br>Invention   | THIADI   | AZOLOQUINOXALINE DERIVATIVES   |
|---|--|--|
| As the below nar  | ned invento  | r, I hereby declare that:  |
| This declaration  | . 0  | The attached application, or   |
| is directed to:   | 团  | United States Application or PCT International Application number PCT/EP2016/000609 filed on 13.04.2016  |
| The above-identi  | ified applica  | ation was made or authorized to be made by me.   |
| I believe that I ar   | m the origin   | al inventor or an original joint inventor of a claimed invention in the application.   |
| AND WHEREA  | S  |  |
| all natent(s) liste   | F 6 6 red to as the  | ferck 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 her right, title and in and all Letters P thereof, and in a to accrue with re invention, SAIE including any at which may be gright to sue for arising from or renewals, reissurepresentatives, enjoyed the san | reby assigns attent which and to any a espect to the ASSIGNE and all earlie ranted there damages oc appertaining, reexaming as ample as if the assigned. | SETH that for good and valuable consideration, the receipt whereof is hereby acknowledged, is sells, and transfers to ASSIGNEE, its assigns and legal representatives, the entire and exclusive do to said invention and patent(s), including any and all divisions and continuations thereof, and any here 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 effiling or securing of patents in the United States and/or any countries foreign thereto concerning said in the interpretative to have, hold, exercise, and enjoy said invention and patent, or priority rights (U.S. and foreign), divisions and continuations thereof, any and all Letters Patent effor, 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 g thereto, for and during the term or terms of any and all such Letters Patent, including any and all intations and extensions thereof, for the use and benefit of ASSIGNEE and its assigns and legal e and beneficial a manner to all intents and purposes as the ASSIGNOR might or could have held and signment had not been made. |
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|   |  | IN TESTIMONY WHEREOF this assignment is executed by ASSIGNOR   |
| I her fine or impriso   | eby acknownment of no  | pledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by on more than five (5) years, or both.   |
| LEGAL NAM   |  |  |
| Inventor:   | Michael J  | IUNGE Date: (X X V V X X Y V X X Y X Y X X Y X X Y X X Y X X X X   |
| Signature:  |  | <u>. Z                                   </u>  |

MILLEN, WHITE, ZELANO & BRANIGAN, P.C. ATTORNEYS AT LAW

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| Title of<br>Invention  | THIADIAZOLOQUINOXALINE DERIVATIVES  |  |  |  |
|--|---|--|--|--|
| As the below nan   | ned invento   | or, I hereby declare that:   |  |  |
| This declaration   |   | The attached application, or   |  |  |
| THIS COURT   |   | United States Application or PCT International   | al Application   | number PCT/EP2016/000609 filed on  |
| is directed to:  | ×   | 13.04.2016   |  |  |
| The above-identi   | fied applic   | ation was made or authorized to be made by me  | 5 <sub>7</sub>   | 4  |
| I believe that I ar  | n the origin  | nal inventor or an original joint inventor of a cla  | aimed inventi  | ion in the application.  |
| AND WHEREA   |   |  | i  |  |
| 7110 7110101   | N   | Merck Patent GmbH  |  |  |
|  |   | Frankfurter Strasse 250  |  |  |
| all patent(s) liste including any an   | ed to as the<br>d above, in<br>d all renew  | A293 Darmstadt / DE e ASSIGNEE, is desirous of acquiring the entire cluding any and all earlier priority rights (U.S. Pals, reissues, reexaminations and extensions the  | and foreign),<br>ereof.  | (appropriations and continuations are con-   |
| ASSIGNOR her right, title and in and all Letters P thereof, and in a to accrue with re invention, SAID including any ar which may be giright to sue for carising from or a renewals, reissu representatives, enjoyed the sam | eby assignaterest in aratent which and to any a sepect to the ASSIGNI and all earlier anted there amages ocappertaining, reexaming as amplae, if the as | SETH that for good and valuable consideration, is, sells, and transfers to ASSIGNEE, its assigns and to said invention and patent(s), including any in may be granted therefor, including any and all and all U.S. (including provisional) or foreign prefiling or securing of patents in the United States, its assigns and legal representatives to have or priority rights (U.S. and foreign), divisions an efor, including any and all renewals, reissues, recurring before the assignment, with all the right g thereto, for and during the term or terms of artifactions and extensions thereof, for the use and e and beneficial a manner to all intents and purposignment had not been made. | and legal report and all divised the renewals, repries and/or any to hold, exercing the continuation decommended the repries and all such benefit of Asposes as the Asposes | sions and continuations thereof, and any sissues, reexaminations and extensions convention rights or benefits accruing or y countries foreign thereto concerning said se, and enjoy said invention and patent, and thereof, any and all Letters Patent is and extensions thereof, including the rivileges and advantages in anywise sh Letters Patent, including any and all SSIGNEE and its assigns and legal ASSIGNOR might or could have held and |
| and foreign cour   | ntries for s  | R hereby agrees to execute all papers that may aid invention and to assign the same to said AS hat may be needed in connection with securing   | SIGNEE, IIS  | assigns and legal representatives and to   |
| any and all divi   | sions and c   | OR authorizes and requests the Commissioner of continuations thereof, to ASSIGNEE, its assigns   | s and legal re   | presentatives, in accordance nerowith.   |
| The u<br>assignment info<br>properly record  | rmation w   |  | the United Si  | tates Patent and Trademark Office to   |
|  |   | IN TESTIMONY WHEREOF this assignmen  | nt is executed   | by ASSIGNOR  |
| I here fine or imprison  | eby acknownment of n  | vledge that any willful false statement made in to<br>to more than live (5) years, or both.  | this declaration   | on is punishable under 18 U.S.C. 1001 by   |
| LEGAL NAMI   | E OF INVE   | NTOR   | T  | 20-09-2017   |
| Inventor:  | Ursula P  | V EMAT   | Date: _  | ditting from a distance &  |
| Signature:   | <u> </u>  | <u>Yan</u>   |  |  |

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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| Title of                        | THIADIAZOLOQUINOXALINE DERIVATIVES   |
|---------------------------------|--|
| Invention                       |  |
| As the below nan                | med inventor, I hereby declare that:   |
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|                                 | United States Application or PCT International Application number PCT/EP2016/000609 filed on   |
| is directed to:                 | <b>⊠</b> 13.04.2016  |
| 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.   |
| AND WHEREA                      | NS CONTRACTOR OF THE PROPERTY  |
|                                 | Merck Patent GmbH Frankfurter Strasse 250  |
|                                 | 64202 Dormetadt / DE   |
| hereinafter referi              | 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,   |
| including any an                | and all renewals, reissues, reexaminations and extensions thereof.   |
| 1                               | , WITNESSETH that for good and valuable consideration, the receipt whereof is hereby acknowledged,   |
| LOCKONTON L.                    | and transfers to A SSIGNEE its assigns and legal representatives, the citing and exclusive   |
| والأراث والإنجاب المناط والمناط | and to said invention and natenticl including any and all divisions and communions moreon, and may   |
|                                 | Patent 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 and to any and all U.S. (including provisional) or foreign priority and/or convention rights or benefits accruing or  |
| 241                             | and the filing or escuring of patents in the United States and/or any countries to reight thereto concerning said  |
| invention, SAID                 | ASSIGNEE, its assigns and legal representatives to have, note, exercise, and enjoy and international patents.  |
| to Conference and the control   | seemed those for including any and all renewals, reissnes, reexaminations and extensions thereof, including and  |
|                                 | 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  |
| The second second               | and average and avenue one thereof for the use and purificulty and its dost, in the control of t |
| representatives.                | in as ample and beneficial a manner to all intents and purposes as the ASSIGNOR linguistic food and  |
| 1                               | ne, 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   |
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|                                 |  |
| AND                             | ASSIGNOR authorizes and requests the Commissioner of Patents and Trademarks to issue a Letters Patent on isions and continuations thereof, to ASSIGNEE, its assigns and legal representatives, in accordance herewith.   |
| l'                              |  |
| The u                           | undersigned 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  |
| assignment into                 | d this document.   |
| N. Series                       | IN TESTIMONY WHEREOF this assignment is executed by ASSIGNOR   |
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| LEGAL NAMI                      | E OF INVENTOR  |
| Inventor:                       | Mila FISCHER Date: (23)  |
| Signature:                      | 11:0a Fischer  |
| orgnature.                      | All Manual Control of the Control of |

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ATTORNEYS AT LAW
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EMAIL: MAIL@MWZB.COM

**RECORDED: 11/03/2017** 

Effective, September 16, 2012