PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3791431

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

CONVEYING PARTY DATA

| Name | Execution Date |
|----------------------|----------------|
| P. JEFFREY CONN | 03/01/2016 |
| CRAIG W. LINDSLEY | 02/17/2016 |
| KYLE A. EMMITTE | 03/15/2016 |
| ANDREW S. FELTS | 03/01/2016 |
| KATRINA A. BOLLINGER | 03/03/2016 |

RECEIVING PARTY DATA

| Name: | Vanderbilt University |
|-----------------|---|
| Street Address: | 305 Kirkland Hall, 2201 West End Avenue |
| City: | Nashville |
| State/Country: | TENNESSEE |
| Postal Code: | 37240 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 15006486 |

CORRESPONDENCE DATA

Fax Number: (414)277-0656

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: (414)271-6560

Email: dahauser@michaelbest.com

Correspondent Name: MICHAEL BEST & FRIEDRICH LLP
Address Line 1: 100 EAST WISCONSIN AVENUE

Address Line 2: SUITE 3300

Address Line 4: MILWAUKEE, WISCONSIN 53202-4108

| ATTORNEY DOCKET NUMBER: | 093386-9098-US01 |
|-------------------------|----------------------|
| NAME OF SUBMITTER: | JOSEPH M. PLETCHER |
| SIGNATURE: | /joseph m. pletcher/ |
| DATE SIGNED: | 03/18/2016 |
| | |

Total Attachments: 5

PATENT REEL: 038037 FRAME: 0191

503744786

source=18751378_093386-9098-US01_As_Filed_Declaration_and_Assignment#page1.tif source=18751378_093386-9098-US01_As_Filed_Declaration_and_Assignment#page2.tif source=18751378_093386-9098-US01_As_Filed_Declaration_and_Assignment#page3.tif source=18751378_093386-9098-US01_As_Filed_Declaration_and_Assignment#page4.tif source=18751378_093386-9098-US01_As_Filed_Declaration_and_Assignment#page5.tif

VU Reference No.: VU15108US01

COMBINATION ASSIGNMENT-STATEMENT

| *************************************** | |
|--|--|
| | CLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION ICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR SINGLE ASSIGNEE |
| Title of Invention: | NEGATIVE ALLOSTERIC MODULATORS OF METABOTROPIC GLUTAMATE RECEPTOR 2 |
| *************************************** | DECLARATION |
| As a below named inve | entor I hereby declare that: |
| | ttached application, or |
| ⊠ United 2016 | d States application or PCT international application number 15/006.486 filed on January 26, |
| I believe that I I hereby acknowledge | ntified application was made or authorized to be made by me. am the original inventor or an original joint inventor of a claimed invention in the application. owledge that any willfull false statement made in this declaration is punishable under 18 USC or imprisonment of not more than five (5) years, or both. |
| | ASSIGNMENT |
| WHEREAS, 3 End Avenue, Nashvill | Vanderbilt University having an office and place of business at 305 Kirkland Hall, 2201 West e. Tennessee, 37240, USA, is desirous of acquiring the entire interest in the same; |
| Literary and Artistic W time to time, the suffici assign and hereby do se interest in and to said ir which may issue thereo reexamination, division Paris Convention arisin including the right to be legal representatives an sale not been made; | EFORE, for good and valuable consideration, as described in the Policy on Technology and orks, published in the 1993-1994 Vanderbilt Faculty Manual, as such policy is amended from ency and adequacy and receipt of which are hereby acknowledged, I, the INVENTOR, agree to cell, assign and transfer unto said VANDERBILT UNIVERSITY the entire right, title and avention and application throughout the world, including, without limitation, any Letters Patent in, and any subsequent application claiming priority to the above-identified application, reissue, al, continuation-in-part, extension or continuation thereof and all rights of priority under the g from said application, and all other rights in the INVENTION possessed by the INVENTOR, ring suit for damages due to past infringements; the same for VANDERBILT UNIVERSITY'S d assigns, as fully and entirely as the same would have been held by us had this assignment and |
| without further consider which may be necessary made or intended to be | bind myself, my heirs, legal representatives, administrators and assign properly to execute ration any and all applications, petitions, oaths and assignments or other papers and instruments in order to carry into full force and effect, the sale, assignment, transfer and conveyance hereby made and generally do everything possible to aid VANDERBILT UNIVERSITY, its legal gns, to obtain and enforce proper protection for said invention in all countries throughout the |
| | covenant that no assignment, sale, agreement or encumbrance has been or will be made or ld conflict with this assignment. |
| LEGAL NAME OF IN | IVENTOR |
| Inventor: P. Jeffr | ey Conn Date: 3 20,4 |
| Signature: | |
| Witness: | Dute: |
| Signature: | |

VU Reference No.: VU15108US01

COMBINATION ASSIGNMENT-STATEMENT

| 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: | NEGATIVE ALLOSTERIC MODULATORS OF METABOTROPIC GLUTAMATE RECEPTOR 2 |
| | |
| *************************************** | DECLARATION |
| As a below named inve | entor I hereby declare that: |
| - This declaration | on is directed to: |
| | trached application, or |
| ⊠ Unite 2016 | d States application or PCT international application number <u>15/006.486</u> filed on <u>January 26.</u> |
| I believe that I hereby acknowledge | Intified application was made or authorized to be made by me. I am the original inventor or an original joint inventor of a claimed invention in the application, owledge that any willfull false statement made in this declaration is punishable under 18 USC or imprisonment of not more than five (5) years, or both. |
| | |
| | ASSIGNMENT |
| WHEREAS, End Avenue, Nashvill | Vanderbilt University having an office and place of business at 305 Kirkland Hall, 2201 West le. Tennessee, 37240, USA, is desirous of acquiring the entire interest in the same: |
| time to time, the suffic assign and hereby do s interest in and to said i which may issue there reexamination, divisio Paris Convention arisio including the right to b | Torks, published in the 1993-1994 Vanderbilt Faculty Manual, as such policy is amended from iency and adequacy and receipt of which are hereby acknowledged, I, the INVENTOR, agree to ell, assign and transfer unto said VANDERBILT UNIVERSITY the entire right, title and invention and application throughout the world, including, without limitation, any Letters Patent on, and any subsequent application claiming priority to the above-identified application, reissue, nal, continuation-in-part, extension or continuation thereof and all rights of priority under the ing from said application, and all other rights in the INVENTION possessed by the INVENTOR, wring suit for damages due to past infringements; the same for VANDERBILT UNIVERSITY'S and assigns, as fully and entirely as the same would have been held by us had this assignment and |
| without further consid which may be necessa made or intended to be | by bind myself, my heirs, legal representatives, administrators and assign properly to execute eration any and all applications, petitions, oaths and assignments or other papers and instruments by in order to carry into full force and effect, the sale, assignment, transfer and conveyance hereby a made and generally do everything possible to aid VANDERBILT UNIVERSITY, its legal signs, to obtain and enforce proper protection for said invention in all countries throughout the |
| AND, I hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment. | |
| LEGAL NAME OF INVENTOR | |
| Inventor: <u>Crais</u> | W. Lindslew Date: <u>Z - 17 - 2016e</u> |
| Signature: | |
| Wimess: | <u>Tacket Haggin</u> - 12014_ |
| Signature | July 1 Villamide |

VU Reference No.: VU15108US01

COMBINATION ASSIGNMENT-STATEMENT

| 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: | NEGATIVE ALLOSTERIC MODULATORS OF METABOTROPIC GLUTAMATE RECEPTOR 2 |
| | DECLARATION |
| As a below named inve | entor I hereby declare that: |
| This declaration is directed to: ☐ The attached application, or ☑ United States application or PCT international application number 15/006,486 filed on January 26, 2016. | |
| 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. I hereby acknowledge that any willfull false statement made in this declaration is punishable under 18 USC 1001 by fine or imprisonment of not more than five (5) years, or both. | |
| | ASSIGNMENT |
| WHEREAS, <u>Y</u> End Avenue, Nashvill | Vanderbilt University having an office and place of business at 305 Kirkland Hall, 2201 West e. Tennessee, 37240, USA, is desirous of acquiring the entire interest in the same; |
| NOW, THEREFORE, for good and valuable consideration, as described in the Policy on Technology and Literary and Artistic Works, published in the 1993-1994 Vanderbilt Faculty Manual, as such policy is amended from time to time, the sufficiency and adequacy and receipt of which are hereby acknowledged, I, the INVENTOR, agree to assign and hereby do sell, assign and transfer unto said VANDERBILT UNIVERSITY the entire right, title and interest in and to said invention and application throughout the world, including, without limitation, any Letters Patent which may issue thereon, and any subsequent application claiming priority to the above-identified application, reissue, reexamination, divisional, continuation-in-part, extension or continuation thereof and all rights of priority under the Paris Convention arising from said application, and all other rights in the INVENTION possessed by the INVENTOR, including the right to bring suit for damages due to past infringements; the same for VANDERBILT UNIVERSITY'S legal representatives and assigns, as fully and entirely as the same would have been held by us had this assignment and sale not been made; | |
| AND, I hereby bind myself, my heirs, legal representatives, administrators and assign properly to execute without further consideration any and all applications, petitions, oaths and assignments or other papers and instruments which may be necessary in order to carry into full force and effect, the sale, assignment, transfer and conveyance hereby made or intended to be made and generally do everything possible to aid VANDERBILT UNIVERSITY, its legal representatives and assigns, to obtain and enforce proper protection for said invention in all countries throughout the world; | |
| AND, I hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment. | |
| LEGAL NAME OF I | NVENTOR |
| Inventor: Kyle A | A. Emmitte Date: MACH 15, 2014 |
| Signature: | 12 |
| Witness: AUS | Hin lung Date: 03/15/16 |
| Signature: | Secretary Communication of the |

VU Reference No.: VUISI08US01

COMBINATION ASSIGNMENT-STATEMENT

| 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: | NEGATIVE ALLOSTERIC MODULATORS OF METABOTROPIC GLUTAMATE RECEPTOR 2 |
| | DECLARATION. |
| As a below named inve | intor I hereby declare that: |
| ☑ United 2016. The above-ides I believe that I I hereby ackno | tached application, or I States application or PCT international application number <u>15/006,486</u> filed on <u>January 26.</u> |
| | |
| | ASSIGNMENT |
| WHEREAS, V | anderbilt University having an office and place of business at 305 Kirkland Hall, 2201 West |
| End Avenue, Nashville | F. Tennessee, 37240, USA, is desirous of acquiring the entire interest in the same; |
| Literary and Artistic We time to time, the sufficie assign and hereby do se interest in and to said in which may issue thereous reexamination, divisions Paris Convention arising including the right to by | EFORE, for good and valuable consideration, as described in the Policy on Technology and orks, published in the 1993-1994 Vanderbilt Faculty Manual, as such policy is amended from ency and adequacy and receipt of which are hereby acknowledged, I, the INVENTOR, agree to ill, assign and transfer unto said VANDERBILT UNIVERSITY the entire right, title and evention and application throughout the world, including, without limitation, any Letters Patent in, and any subsequent application claiming priority to the above-identified application, reissue, al, continuation-in-part, extension or continuation thereof and all rights of priority under the grom said application, and all other rights in the INVENTION possessed by the INVENTOR, ing suit for damages due to past infringements; the same for VANDERBILT UNIVERSITY'S of assigns, as fully and entirely as the same would have been held by us had this assignment and |
| without further consider which may be necessary made or intended to be r representatives and assist world; | bind myself, my heirs, legal representatives, administrators and assign properly to execute ation any and all applications, petitions, oaths and assignments or other papers and instruments in order to carry into full force and effect, the sale, assignment, transfer and conveyance hereby nade and generally do everything possible to aid VANDERBILT UNIVERSITY, its legal ens, to obtain and enforce proper protection for said invention in all countries throughout the |
| AND, I hereby entered into which would | covenant that no assignment, sale, agreement or encumbrance has been or will be made or d conflict with this assignment. |
| LEGAL NAME OF IN | |
| Inventor: Andrew | v <u>5. Felts</u> Date: 3/1/16 |
| Signature: | |
| Wimess: | 102 561996 Date: 3/1/1/2 |
| Signature: | the contract of the contract o |

VU Reference No.: VUIS108U801

COMBINATION ASSIGNMENT-STATEMENT

| 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: | NEGATIVE ALLOSTERIC MODULATORS OF METABOTROPIC GLUTAMATE RECEPTOR 2 |
| | DECLARATION |
| As a below named in | ventor I hereby declare that: |
| □ The ⊠ Unit 201 | tion is directed to: attached application, or ed States application or PCT international application number 15/006,486 filed on January 26, 6. Jentified application was made or authorized to be made by me. |
| I believe that I hereby ack | I am the original inventor or an original joint inventor of a claimed invention in the application, nowledge that any willfull false statement made in this declaration is punishable under 18 USC or imprisonment of not more than five (5) years, or both. |
| · · · · · · · · · · · · · · · · · · · | |
| | ASSIGNMENT |
| WHEREAS End Avenue, Nashv | Vanderbilt University having an office and place of business at 305 Kirkland Hall, 2201 West Ite, Tennessee, 37240, USA, is desirous of acquiring the entire interest in the same; |
| Literary and Artistic ' time to time, the suffi assign and hereby do interest in and to said which may issue then reexamination, division Paris Convention aris including the right to | REFORE, for good and valuable consideration, as described in the Policy on Technology and Works, published in the 1993-1994 Vanderbilt Faculty Manual, as such policy is amended from ciency and adequacy and receipt of which are hereby acknowledged, I, the INVENTOR, agree to sell, assign and transfer unto said VANDERBILT UNIVERSITY the entire right, title and invention and application throughout the world, including, without limitation, any Letters Patent invention and application throughout the world, including, without limitation, any Letters Patent including subsequent application claiming priority to the above-identified application, reissue, and, continuation-in-part, extension or continuation thereof and all rights of priority under the ing from said application, and all other rights in the INVENTION possessed by the INVENTOR, bring suit for damages due to past infringements; the same for VANDERBILT UNIVERSITY'S and assigns, as fully and entirely as the same would have been held by us had this assignment and |
| without further consic which may be necessed made or intended to b | by bind myself, my heirs, legal representatives, administrators and assign properly to execute leration any and all applications, petitions, oaths and assignments or other papers and instruments by in order to carry into full force and effect, the sale, assignment, transfer and conveyance hereby a made and generally do everything possible to aid VANDERBILT UNIVERSITY, its legal signs, to obtain and enforce proper protection for said invention in all countries throughout the |
| AND, I herel entered into which we | by covenant that no assignment, sale, agreement or encumbrance has been or will be made or suld conflict with this assignment. |
| LEGAL NAME OF | |
| Inventor: Katri | na A. Bollinger Date: 3 March 2010 |
| Signature: | 014/19-Uz- |
| Witness: 1 | 2012 Date: 3-3-2010 |
| Signature: | Me () el ma |

RECORDED: 03/18/2016

PATENT

REEL: 038037 FRAME: 0197