# 506123082 06/24/2020

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6169807

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

### **CONVEYING PARTY DATA**

| Name                      | Execution Date |
|---------------------------|----------------|
| LIVIA SCHIAVINATO EBERLIN | 12/04/2017     |
| THOMAS MILNER             | 12/01/2017     |
| JIALING ZHANG             | 12/04/2017     |
| JOHN LIN                  | 09/14/2017     |
| JOHN RECTOR               | 05/14/2018     |
| NITESH KATTA              | 02/23/2018     |
| AYDIN ZAHEDIVASH          | 09/05/2017     |

### **RECEIVING PARTY DATA**

| Name:           | BOARD OF REGENTS, THE UNIVERSITY OF TEXAS SYSTEM |
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| City:           | AUSTIN   |
| State/Country:  | TEXAS  |
| Postal Code:    | 78701  |

### **PROPERTY NUMBERS Total: 1**

| Property Type       | Number   |
|---------------------|----------|
| Application Number: | 16817728 |

## **CORRESPONDENCE DATA**

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| ATTORNEY DOCKET NUMBER: | UTSB.P1127US.D1     |
|-------------------------|---------------------|
| NAME OF SUBMITTER:      | CAROLINE HAMILTON   |
| SIGNATURE:              | /Caroline Hamilton/ |
| DATE SIGNED:            | 06/24/2020          |

506123082 PATENT REEL: 053028 FRAME: 0639

# Total Attachments: 9 source=UTSBP1127USD1\_assignment#page1.tif source=UTSBP1127USD1\_assignment#page2.tif source=UTSBP1127USD1\_assignment#page3.tif source=UTSBP1127USD1\_assignment#page4.tif source=UTSBP1127USD1\_assignment#page5.tif source=UTSBP1127USD1\_assignment#page6.tif source=UTSBP1127USD1\_assignment#page7.tif source=UTSBP1127USD1\_assignment#page8.tif source=UTSBP1127USD1\_assignment#page8.tif source=UTSBP1127USD1\_assignment#page9.tif

PATENT REEL: 053028 FRAME: 0640

Assignment of Patent Application
Serial Nos. PCT/US2017/049889 and 15/892,167
Altomey Docket No. UTFB.P1127WO and UTSB.P1127US

### ASSIGNMENT OF PATENT APPLICATION

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and adequacy of which are hereby acknowledged, the undersigned, do hereby:

SELL., ASSIGN AND TRANSFER to Board of Regents, The University of Texas System (the "Assignee"), having a place of business at 210 West 7th Street, Austin, Texas, 78701, the entire right, title and interest for the United States and all foreign countries in and to any and all inventions, subject matter and improvements disclosed in International Patent Application, Serial No. PCT/US2017/049689 and United States Patent Application, Serial No. 15/692,167 (the "invention"), both filed on August 31, 2017, and both of which claim priority to United States Provisional Applications, Serial No. 62/363,234, filed on September 2, 2016, Serial No. 62/411,321, filed on October 21, 2016, and Serial No. 62/462,524, filed on February 23, 2017, such applications and any and all divisional, continuing, substitute, renewal, reissue and other applications for patent which have been or shall be filed in the United States and all foreign countries based on the invention; all original, reissued and reexamined patents which have been or shall be issued in the United States and all foreign countries based on the Invention; and specifically including the right to file foreign applications under the provisions of any convention or treaty and claim priority based on such application in the United States;

AUTHORIZE AND REQUEST the Issuing authority to Issue any and all United States and foreign patents granted on such improvements to the Assignee;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by the undersigned, and that the full right to convey the same as herein expressed is possessed by the undersigned:

COVENANT, when requested and at the expense of the Assignee, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all such improvements; execute all rightful caths, declarations, assignments, powers of attorney and other papers; communicate to the Assignee all facts known to the undersigned relating to such improvements and the history thereof; and generally do everything possible which the Assignee shall consider desirable for vesting title to such improvements in the Assignee, and for securing, maintaining and enforcing proper patent protection for such improvements;

TO BE BINDING on the heirs, assigns, representatives and successors of the undersigned and extend to the successors, assigns and nominees of the Assignee.

Page 1 of 5

(00477080)

Assignment of Patent Application Serial Nos. PCT/US2017/049889 and 15/692,167 Atterney Docket No. UTFB.P1127WO and UTSB.P1127US

| IN WITNESS WHEREOF, I have hereunto signed my name on the day and year set forth below.  |
|--|
| Livia S. Chulin 12/04/17 Inventor's Signature DATE   |
| Livia Schiavinato Eberlin<br>Inventor's Printed Name   |
| STATE OF TCHAS   |
| COUNTY OF Travis   |
| On this 4 day of December 2017, before me personally came the above named Livis Schlavinato Eberlin who is personally known by me or proved to me on the basis or satisfactory evidence to be the same individual who executed the foregoing assignment, and who acknowledged to me that he/she executed the same of his/her own free will for the use and purposes therein set forth.   |
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| JESSICA SADIE MYER NOTARY PUBLIC NOTARY PUBLIC Size of Texas Contri. Exp. 04-14-2018 NOTARY WITHOUT BOND NOTARY WITHOUT BOND   |
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| IN WITNESS WHEREOF, I have hereunto signed my name on the day and year set forth below.  |
| IN WITNESS WHEREOF, I have hereunto signed my name on the day and year set forth below.  Inventor's Signature  DATE  |
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| Inventor's Signature DATE  Thomas Milner Inventor's Printed Name  STATE OF   |
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| Inventor's Signature DATE  Thomas Milner Inventor's Printed Name  STATE OF SS  COUNTY OF SS  On this day of spersonally known by me or proved to me on the basis of satisfactory evidence to be the same Individual who executed the foregoing assignment, and who acknowledged to me that he/she executed the same of his/her own free will for the use and purposes therein set forth. |
| Inventor's Signature  Thomas Milner Inventor's Printed Name  STATE OF  |
| Inventor's Signature DATE  Thomas Milner Inventor's Printed Name  STATE OF SS  COUNTY OF SS  On this day of spersonally known by me or proved to me on the basis of satisfactory evidence to be the same Individual who executed the foregoing assignment, and who acknowledged to me that he/she executed the same of his/her own free will for the use and purposes therein set forth. |

Page 2 of 5

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Assignment of Patent Application Serial Nos. PCT/US2017/049688 and 15/692,167 Attorney Docket No. UTF8.P1127WO and UTS8.P1127US

| IN WITNESS WHEREOF, I have hereunto signed m         | y name on the day and year set forth below.   |
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| Inventor's Signature DA                              | TE .  |
| Livia Schlavinato Eberlin<br>Inventor's Printed Name |   |
| STATE OF ) SS  | •   |
| COUNTY OF  |   |
| satisfactory evidence to be the same individual v    | , , before me personally came the above lly known by me or proved to me on the basis of who executed the foregoing assignment, and who is of his/her own free will for the use and purposes |
|  | NOTARY PUBLIC   |
|  | My Commission Expires:  |
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| IN WITNESS WHEREOF, I have hereunto signed my        | name on the day and year set forth below.   |
| Thomas Melner D                                      | . / 3403  |
| Inventor's Signature DAT                             | e. 1,2017<br>E  |
| Thomas Milner Inventor's Printed Name                |   |
| STATE OF TUXUS                                       | *   |
| STATE OF TUXAS COUNTY OF TRAVIS                      |   |
| On this day of                                       | y me or proved to me on the basis of satisfactory e foregoing assignment, and who acknowledged to   |

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Page 2 of 5

Assignment of Patent Application Serial Nos. PCT/US2017/049688 and 15/692,167 Attorney Decket No. UTFB.P1127WO and UTSB.P1127US

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| Trading Zhang  | signed my name on the day and year set forth below.  |
| \  | 12/04(2017   |
| Inventor's Signature   | DATE   |
| Jialing Zhang<br>Inventor's Printed Name   | •  |
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| named <u>Jialing Zhang</u> who is personally evidence to be the same individual who e  |  |
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| JESSICA SADIE MYER NOTARY PUBLIC State of Texas Comm. Exp. 04-14-2018 NOTARY WITHOUT BOND  | NOTARY PUBLIC My Commission Expires: <u> </u>  |
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| IN WITNESS WHEREOF, I have hereunto  | signed my name on the day and year set forth below.  |
| IN WITNESS WHEREOF, I have hereunto  | signed my name on the day and year set forth below.  |
| Inventor's Signature   |  |
| Inventor's Signature  John Lin Inventor's Printed Name   |  |
| Inventor's Signature  John Lin Inventor's Printed Name  STATE OF ) SS  |  |
| Inventor's Signature  John Lin Inventor's Printed Name  STATE OF )  COUNTY OF )  On this day of named John Lin who is personally known be the same individual who executed the |  |
| Inventor's Signature  John Lin Inventor's Printed Name  STATE OF )  COUNTY OF )  On this day of named John Lin who is personally known be the same individual who executed the | DATE  , before me personally came the above by me or proved to me on the basis of satisfactory evidence to e foregoing assignment, and who acknowledged to me that   |
| Inventor's Signature  John Lin Inventor's Printed Name  STATE OF )  COUNTY OF )  On this day of named John Lin who is personally known be the same individual who executed the | DATE  , before me personally came the above by me or proved to me on the basis of satisfactory evidence to e foregoing assignment, and who acknowledged to me that ree will for the use and purposes therein set forth.  |
| Inventor's Signature  John Lin Inventor's Printed Name  STATE OF )  COUNTY OF )  On this day of named John Lin who is personally known be the same individual who executed the | DATE  , before me personally came the above by me or proved to me on the basis of satisfactory evidence to e foregoing assignment, and who acknowledged to me that ree will for the use and purposes therein set forth.  |

**PATENT** 

Assignment of Patent Application Sental Nos. PCT/US2017/049889 and 15/892,167 Attorney Docket No. UTF8.P1127WO and UTS8.P1127US

| Inventor's Signat  | ure  | DATE  | <del>order de la companya de la companya</del> |
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| Jialing Zhang<br>Inventor's Printed  | 101222   |   |  |
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| nventor's Signal   |  |   |  |
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| nventor's Signal<br>Iohn Lin<br>nventor's Printed  | ure<br>I Name  | 9/14/17   |  |
| nventor's Signal<br>John Lin<br>nventor's Printed  | ure<br>I Name  | 9/14/17   |  |
| nventor's Signativentor's Printed STATE OF Te  | I Name  IX 95  Cavis  SS   | 9/14/17<br>DATE   |  |
| nventor's Signal  John Un  Inventor's Printed  STATE OF Te  COUNTY OF T  On this 14 to  named John Un                                    | I Name  IX 95  Couris  day of Sextem  who is personally know   | 9/14/17 DATE  2017  n by me or proved to me   | , before me personally came the above on the basis of satisfactory evidence to   |
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PATENT

Assignment of Patent Application Serial Nos. PCT/US2017/049889 and 15/692,167 Attorney Docket No. UTFB.P1127WO and UTSB.P1127US

| March 1990  | 2-   | 5-14-18  |   |   |
|---|--|--|---|---|
| Inventor's Signature  |  | DATE   |   | rX.   |
| 177)<br>185- 1  |  |  |   |   |
| John Rector<br>Inventor's Printed Name  | ***************************************                    |  |   |   |
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|   |  |  | LOUIS HAY   |   |
| IN WITNESS WHEREOF, I   | have hereunto sign   |  | LOUIS HAY   | at forth below.   |
| <u> </u>  | have hereunto sign   | ed my name on the  | LOUIS HAY   | et forth below.   |
| nventor's Signature<br>Nitesh Katta   | have hereunto sign   | ed my name on the  | LOUIS HAY   | at forth below.   |
| nventor's Signature<br>Nitesh Katta<br>nventor's Printed Name   | have hereunto sign   | ed my name on the  | LOUIS HAY   | at forth below.   |
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| nventor's Signature<br>Nitesh Katta<br>nventor's Printed Name<br>STATE OF<br>COUNTY OF  | ) ss   | ed my name on the  | Valid<br>W County of the Paires White W |   |
| inventor's Signature<br>Nitesh Katta<br>nventor's Printed Name<br>STATE OF  | )<br>> SS<br>)<br>Is personally know<br>dividual who execu | ed my name on the  DATE  on by me or prove ted the foregoing a   | before me pers  | sonally came the above basis of satisfactor who acknowledged to |
| nventor's Signature  Nitesh Katta  nventor's Printed Name  STATE OF  COUNTY OF  On this day of  samed <u>Nitesh Katta</u> who | )<br>> SS<br>)<br>Is personally know<br>dividual who execu | ed my name on the  DATE  In by me or prove ted the foregoing a yn free will for the us   | before me pers d to me on th ssignment, and se and purposes   | sonally came the above basis of satisfactor who acknowledged to |

Assignment of Patent Application Serial Nos. PCT/US2017/049688 and 15/692,167 Attorney Dockel No. UTFB.P1127WO and UTSB.P1127US

| IN WITNESS V                     | VHEREOF, I have here  | unto signed my nam                     | ne on the day and year set forth below.  |
|----------------------------------|-----------------------|--|--|
|                                  |                       |  |  |
| Inventor's Sign                  | ature                 | DATE                                   | :  |
| John Rector<br>Inventor's Print  | ed Name               | ······································ | No. 10 Company of the |
| STATE OF                         | )                     |  |  |
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| evidence to be                   | the same individual v | the executed the for                   | , before me personally came the above or proved to me on the basis of satisfactory regoing assignment, and who acknowledged to for the use and purposes therein set forth.   |
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| IN WITNESS V                     | VHEREOF, I have here  | ounto signed my nam                    | ne on the day and year set forth below.  |
|                                  | Jiteh<br>alure        | 2<br>DATE                              | 13 <sup>14</sup> Feb 2018  |
| Nitesh Katta<br>Inventor's Prini | led Name              | <del>Mara</del> :                      |  |
| STATE OF 1                       | Thavis ss             |  |  |
| on this 22                       | day of Follow         | <u>nnx</u>                             | 2018, before me personally came the above or proved to me on the basis of satisfactory   |
| - AMADENCE IO DE                 | erre seme manadae v   | RIN GYZONEG (HZ 10)                    | or proved to me on the basis of satisfactory regoing assignment, and who acknowledged to for the use and purposes therein set forth.   |
|                                  |                       |  | NOTARY PUBLIC 4 22 2021  |
| (00477080)                       |                       | Page 4 of 5                            |  |

PATENT

Assignment of Patent Application Serial Nos. PCTAIS2017/048889 and 15/392,197 Albertay Oscial No. UTFR.P1127WO and UTSB.P1127US

| IN WITNESS WHEREOF  | ) have hereunto algr   | ed my name on the day and year set   | forth below.                     |
|---|--|--|----------------------------------|
| Inventor's Signature  | / 3  | SSeptember 2017<br>DATE  |                                  |
| Avdin Zahedivash<br>Inventor's Printed Name<br>STATE OF   | } sa   | Motory Public State of To<br>Hotely D of ASSESSES  |                                  |
| COUNTY OF   |  | Comp Entres 07448  | 5000000g<br>1881 B               |
| On this day of named Avdin Zshediva: evidence to be the same me that he/she executed  | ah who is personally in individual who executes the same of his/her or | , 2017, before me persor<br>crown by me or proved to me on the<br>sted the foregoing assignment, and w<br>wn free will for the use and purposes if |                                  |
|   |  | NOTARY PUBLIC<br>My Commission Expires:  | <u> 1851 </u>                    |
| IN TESTIMONY WHERE<br>SYSTEM has signed that<br>James L. Cox, II<br>Assistant General Coun<br>Board of Regents, the U<br>Texas System | r name on the date Inc   | of BOARD OF REGENTS, THE UNIV<br>licated, acknowledging acceptance of  | ERSITY OF TEXAS<br>the transfer. |
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Assignment of Patent Application Serial Nos. PCT/US2017/049689 and 15/892,167 Attorney Docket No. UTFS.P1127WO and UTSS.P1127US

| IN WITNESS WHEREOF, I have hereunto   | signed my name on the day and year set forth below.   |
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| Inventor's Signature  | DATE  |
| Avdin Zahedivash<br>Inventor's Printed Name   | *   |
| STATE OF ) SS   |   |
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| On this   |   |
|   | NOTARY PUBLIC   |
|   | My Commission Expires:  |
| SYSTEM has signed their name on the dat   | tive of BOARD OF REGENTS, THE UNIVERSITY OF TEXAS<br>e indicated, acknowledging acceptance of the transfer.<br>그녀아 국의 국어용 |
| James L. Cox, II Assistant General Counsel Board of Regents, the University of Texas System   |   |
| STATE OF TAXAS ) ss   |   |
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| BILLIE G. MARTINEZ  NOTARY PUBLIC 10# 419564-0 State of Texas Comm. Exp. 07-13-2021 NOTARY WITHOUT BOND   | NOTARY PUBLIC My Commission Expires: 713908   |

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Page 5 of 5

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