10/03/2018 505124231

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5170993

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

CONVEYING PARTY DATA

| Name | Execution Date |
|----------------------------|----------------|
| ANDREW JOHN GEALL | 09/21/2018 |
| VENKATA RAMANA DOPPALAPUDI | 09/21/2018 |
| DAVID SAI-HO CHU | 09/24/2018 |
| MICHAEL CARAMIAN COCHRAN | 09/24/2018 |
| RACHEL ELIZABETH JOHNS | 09/25/2018 |
| PALANI BALU | 09/21/2018 |
| ROB BURKE | 09/24/2018 |
| BEATRICE DIANA DARIMONT | 09/24/2018 |

RECEIVING PARTY DATA

| Name: | AVIDITY BIOSCIENCES LLC | |
|-------------------|-------------------------------|--|
| Street Address: | 10975 NORTH TORREY PINES ROAD | |
| Internal Address: | SUITE 150 | |
| City: | LA JOLLA | |
| State/Country: | CALIFORNIA | |
| Postal Code: | 92037 | |

PROPERTY NUMBERS Total: 2

| Property Type | Number |
|---------------------|----------|
| Application Number: | 16128440 |
| Application Number: | 16129694 |

CORRESPONDENCE DATA

Fax Number: (650)493-6811

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.

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Email: sbarber@wsgr.com, patentdocket@wsgr.com WILSON SONSINI GOODRICH & ROSATI Correspondent Name:

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Address Line 4: PALO ALTO, CALIFORNIA 94304

ATTORNEY DOCKET NUMBER: 45532-707.301-302

PATENT REEL: 047052 FRAME: 0498 505124231

| NAME OF SUBMITTER: | SHASTA BARBER | |
|---|-----------------|--|
| SIGNATURE: | /shasta barber/ | |
| DATE SIGNED: | 10/03/2018 | |
| Total Attachments: 5 | | |
| source=45532-707.301 Assignment for Execution_notarized#page1.tif | | |
| source=45532-707.301 Assignment for Execution_notarized#page2.tif | | |
| source=45532-707.301 Assignment for Execution_notarized#page3.tif | | |
| source=45532-707.301 Assignment for Execution_notarized#page4.tif | | |

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PATENT REEL: 047052 FRAME: 0499

PATENT ASSIGNMENT

Docket Number 45532-707.301

WHEREAS, the undersigned:

- 1. Andrew John GEALL 10975 North Torrey Pines Road Suite 150 La Jolla, CA 92037
 - Rachel Elizabeth JOHNS 10975 North Torrey Pines Road Suite 150 La Jolla, CA 92037
- 2. Venkata Ramana DOPPALAPUDI 3. David Sai-Ho CHU 10975 North Torrey Pines Road Suite 150 La Jolla, CA 92037
- Palani BALU 10975 North Torrey Pines Road Suite 150 La Jolla, CA 92037
- 10975 North Torrey Pines Road Suite 150 La Jolla, CA 92037
- 7. Rob BURKE 10975 North Torrey Pines Road Suite 150 La Jolla, CA 92037
- 4. Michael Caramian COCHRAN 10975 North Torrey Pines Road Suite 150 La Jolla, CA 92037
- 8. Beatrice Diana DARIMONT 10975 North Torrey Pines Road Suite 150 La Jolla, CA 92037

(hereinafter "Inventor(s)"), have invented certain new and useful improvements in

NUCLEIC ACID-POLYPEPTIDE COMPOSITIONS AND USES THEREOF

If for which application serial number 16/128,440 was filed on September 11, 2018 in the United States Patent and Trademark Office;

(hereinafter, "Application(s)"). The term "Application(s)" also includes all patent applications that share or claim priority to or from the above application(s).

WHEREAS, Avidity Biosciences LLC, a limited liability company under the laws of the State of Delaware, having a place of business at 10975 North Torrey Pines Road, Suite 150, La Jolla, California 92037, (hereinafter "Assignee"), is desirous of acquiring the entire right, title and interest in and to said Application(s), and the inventions disclosed therein, and in and to all embodiments of the inventions, heretofore conceived, made or discovered, whether jointly or severally, by said Inventor(s) (hereinafter collectively referred to as "Inventions"), and in and to any and all patents, inventor's certificates and other forms of protection thereon granted in the United States, foreign countries, or under any international convention, agreement, protocol, or treaty, including those filed under the Paris Convention for the Protection of Industrial Property, The Patent Cooperation Treaty or otherwise (hereinafter "Patent(s)").

NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Inventor(s) to have been received in full from said Assignee:

- Said Inventor(s) do hereby sell, assign, transfer and convey unto said Assignee the entire right, title and interest (a) in and to said Inventions; (b) in and to said Applications, including the right to claim priority to and from said Application(s), (c) in and to each and every application that is a divisional, substitution, continuation, or continuation-in-part of any of said Application(s); (d) in and to said Patent(s) and each and every patent issuing or reissuing from any of the foregoing; (e) in and to each and every reissue, reexamination, renewal or extension of any kind of any of the foregoing; (f) in and to each and every patent and application filed outside the United States and corresponding to any of the foregoing, and (g) in and to all claims for past, present and future infringement of the Patent(s), including all rights to sue for and to receive and recover for Assignee's own use all past, present, and future lost profits, royalties, and damages of whatever nature recoverable from an infringement of the Patent(s).
- Said Inventor(s) hereby covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right. title and interest herein conveyed in the United States, foreign countries, or under any international convention, agreement, protocol, or treaty. Such cooperation by said Inventor(s) shall include prompt production of pertinent facts and documents, giving of testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any applications covering said Inventions; (c) for filing and prosecuting substitute, divisional, continuing or additional applications covering said Inventions; (d) for filing and prosecuting applications for reissuance of any said Patent(s); (e) for interference or other priority proceedings involving said Inventions, and (f) for legal proceedings involving said Inventions and any applications therefor and any Patent(s) granted thereon, including without limitation reissues and reexaminations, opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that reasonable expenses incurred by said Inventor(s) in providing such cooperation shall be paid for by said Assignee.
- The terms and covenants of this assignment shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Inventor(s), their respective heirs, legal representatives and assigns.
- Said Inventor(s) hereby warrant, represent and covenant that said Inventor(s) have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.
- Said Inventor(s) fiereby request that any Patent(s) issuing in the United States, foreign countries, or under any international convention, agreement, protocol, or treaty, be issued in the name of the Assignee, or its successors and assigns, for the sole use of said Assignee, its successors, legal representatives and assigns.
- This instrument will be interpreted and construed in accordance with the laws of the State of California, without regard to conflict of law principles. If any provision of this instrument is found to be illegal or unenforceable, the other provisions shall remain effective and enforceable to the greatest extent permitted by law. This instrument may be executed in counterparts, each of which is deemed an original, but all of which together constitute one and

IN WITNESS WHEREOF, said Inventor(s) have executed and delivered this instrument to said Assignee as of the dates written below.

| PATENT ASSIGNMENT | Docket Number 45532-707.301 |
|---|---|
| Date: 21Sep 2018 Andrew John GEAL. | |
| A notary public of other officer completing this certificate verifies only the identity of the individual who signed the docum accuracy, or validity of that document. | ent to which this certificate is attached, and not the truthfulness, |
| County of CAN Diego | |
| Du 21 Sep 2018 before me. USIO ANN KETINS Here Insert Name in | Notary Public |
| | d Title of the Officer |
| ersonally appeared <u>Andrew John GEALL</u> Name(s) of Signer(s) | |
| LESLIE ANN S. KERINS Commission No. 2203135 NOTARY PUBLIC - CALIFORNIA 9 SAN DIEGO COUNTY Commission Expires June 29, 2021 | behalf of which the persones) acted, executed the instrument. fy under PENALTY OF PERHURY under the laws of the State of mia that the foregoing paragraph is true and correct. [ESS my hand and official leat. |
| Place Notary Seal Above. Date: 9/21/20/8 | |
| A notary public or other officer completing this certificate verifies only the identity of the individual who signed the docum- couracy, or validity of that document. | ent to which this certificate is attached, and not the truthfulness, |
| County of Calyfornia Diego) On 21 Sep 2018 before me, LOSTIC AND KONDS Date Here Insert Name at | Notary Public nd Title of the Officer |
| ersonally appeared Venkata Ramana DOPPALAPUDI Name(s) of Signer(s) | |
| LESLIE ANN S. KERINS Commission No. 2203135 NOTARY PUBLIC - CALIFORNIA SAN DIEGO COUNTY Commission Expires June 29, 2021 | behalf of which the person(s) acted, executed the instrument. Fy under PENALTY OF PERJURY under the laws of the State of ruin that the foregoing paragraph is true and correct. EESS my handland official)seal. |
| Place Natary Seal Above | |

Place Notary Seal Above

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| | PATENT ASSIG | NMENT | | Docket Number 45532-707,301 |
| Date: <u>9/24/18</u> | ll en | | | |
| . , E | David Sai-Ho CHÜ | | | |
| A notary public or other officer of accuracy, or validity of that docum | | only the identity of the | individual who signed the | document to which this certificate is attached, and not the truthfulness, |
| State of California County of SAN Diego |); } | 10 | | |
| on <u>24 Sept 2018</u> | before me; | Leslie Ann | | Notary Public Name and Title of the Officer |
| | estr. | | Colore and Color | and the quality of the control of th |
| personally appeared <u>David Sai-Ho</u> | o CHU | Nan | ie(s) of Signer(s) | |
| who proved to me on the basis of s pring her/their authorized capacity | iatisfactory evidence to be the persident; and that by fighter/their sign LESLIE ANN S. KERIN Commission No. 220313 NOTARY PUBLIC - CALIFOR SAN DIEGO COUNTY Commission Expires June 29, 20 | offucks) on the mistruments | ne subscribed to the with it the person(A), or the enti | n instrument and acknowledged to me that the able they executed the same ty upon behalf of which the persont of acted, executed the instrument. I certify under PENALTY OF PERJURY under the laws of the State of California that the exegoing paragraph is true and correct. WITNESS my hand and official seal. Signature Signature of Notory Public |
| P | lace Notary Seal Above | | | |
| Date: 24 Sep 2018 N | MUCCHRA dichael Caramian COCHRA | N | | |
| A notary public or other officer concernscy, or validity of that docum | | only the identity of the | individual who signed the | document to which this certificate is attached, and not the truthfulness, |
| State of California |)) | | | |
| 24 Sept 2018 | before me. LOS | 11e Ann Keriu | ıŞ | Notary Public |
| Date | *************************************** | • | | Name and Title of the Officer |
| personally appeared Michael Cara | imian COCHRAN | | nets) of Signer(s) | |
| | | yun | isto) of orditer(s) | |
| who proved to me on the basis of s newscher/their authorized capacity | atisfactory evidence to be the pers (igs), and that by firsther/their signs | on(A whose name(A)(B) sture(A) on the instrumen | are subscribed to the within the personis, or the enti | u instrument and acknowledged to me that Be/she/they executed the same ty upon behalf of which the personse) acted, executed the instrument. I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct. |
| | LESLIE ANN S. KERINS Commission No. 2203135 NOTARY PUBLIC - CAUFORN SAN DIEGO COUNTY Commission Expires June 29, 2021 | A A AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA | | WITNESS my famil and opposed seal. Signature of Notary Public |
| P | lace Notary Seal Above | | | |

| PATENT ASSIGNMENT | Docket Number 45532-707.301 |
|--|---|
| Pate: 9 27 2018 My & My Rachel Elizabeth JOHNS | |
| A notary public or other officer completing this certificate verifies only the identity of the individual who signed the docum- couracy, or validity of that document. | nent to which this certificate is attached, and not the truthfilmess. |
| Sounty of San Diego } Sounty of San Diego } Sounty of San Diego } Date before me. DSI PANN Ket INS Here Insert Name a | Notary Public nd Title of the Officer |
| rersonally appeared <u>Rachel Elizabeth JOHNS</u> Name(s) of Signer(s) | |
| Calife | behalf of which the person(s) acted, executed the instrument of under PENALTY OF PERJURY under the laws of the State of bridge that the foregoing paragraph is true and correct. NESS mynand and official seal. |
| Palani BALU Palani BALU | |
| A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document, or validity of that document. | nent to which this certificate is attached, and not the muthfalness, |
| county of California County of California | Notary Public nd Title of the Officer |
| who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) for subscribed to the within instru (hig/her/their authorized capacity(ies), and that by(hig/her/their signature(s) on the instrument the person(s), or the cutiry upon [I cert Calif | the behalf of which the person(s) acted, executed the instrument, ify under PENALTY OF PERJURY under the laws of the State of ornin that the foregoing paragraph is true and correct NESS mythand and official seal |
| Plane Maram Saul Abasia | |

Place Notary Seal Above

| PATENT ASSIGNMENT | Docket Number 45532-707.301 |
|--|---|
| Date: 9/24/18 Rob BURNE | |
| A notary public or other officer completing this certificate verifies only the identity of the individual who signed accuracy, or validity of that document. | the document to which this certificate is attached, and not the truthfulness. |
| State of California County of SAN DILAY) | |
| On 24 Sept 2018 before me. LOSTIO ANN KETINS Here Ins. | . Notary Public ert Name and Tide of the Officer |
| personally appeared Rob BURKE Nume(s) of Signer(s) | |
| who proved to me on the basis of satisfactory evidence to be the personal whose names (s) are subscribed to the windisher/their authorized capacity(jest), and that by (iii) her/their signatures on the instrument the personal), or the commission No. 2203135 Commission No. 2203135 SAN DIEGO COUNTY Commission Expires June 29, 2021 | sithin instrument and acknowledged to me the hershe/they executed the same emity upon behalf of which the person(s) acted, executed the instrument. I certify under PENALTY OF PERIURY under the laws of the State of California that the foregoing paragraph is true and correct. WITNESS my hand and official scale. Signature Signature of Notury Public |
| Place Notary Seal Above Date: 09 [24] 2018 Reprice Diana DARIMONT A notary public or other officer completing this certificate verifies only the identity of the individual who signed | the document to which this certificate is attached, and not the muthfulness, |
| State of California) Country of SAN DIRAY) | |
| On 24 Sept 2018 before me. Leslie ANN Kerins | ert Name and Title of the Officer |
| personally appeared <u>Beatrice Diana DARIMONT</u> Name(s) of Signer(s) | |
| who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) are subscribed to the win his her their authorized capacity(es), and that by his her their signature(s) on the instrument the person(s), or the commission No. 2203135 Commission No. 2203135 SAN DIEGO COUNTY Commission Expires June 29, 2021 Place Notary Seal Above | rithin instrument and acknowledged to me that he had bey executed the same entity upon behalf of which the persons acted, executed the instrument. I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct WITNESS my land and official seal Signature Signature of Notary Public |
| 1 насе сыласу жей этиче | |
| Date: 9/25/18 Signature: Name: Kent Hawryluk Title: Chief Business Officer | |

45532-707 301 Assignment with Notary doc

RECORDED: 10/03/2018

Page 5 of 5

PATENT REEL: 047052 FRAME: 0504