PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6607860

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

CONVEYING PARTY DATA

| Name | Execution Date |
|------------------------|----------------|
| MARTIN L. MOORE | 11/08/2019 |
| JIA MENG | 10/24/2019 |
| ANNE HOTARD | 04/02/2020 |
| ELIZABETH LITTAUER | 01/13/2020 |
| CHRISTOPHER C. STOBART | 08/12/2020 |

RECEIVING PARTY DATA

| Name: | EMORY UNIVERSITY |
|-----------------|---------------------------------|
| Street Address: | 1599 CLIFTON ROAD NE, 4TH FLOOR |
| City: | ATLANTA |
| State/Country: | GEORGIA |
| Postal Code: | 30322 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 17025568 |

CORRESPONDENCE DATA

Fax Number: (404)645-7707

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: wballew@mcciplaw.com

Correspondent Name: MEUNIER CARLIN & CURFMAN LLC

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Address Line 2: SUITE 1300

Address Line 4: ATLANTA, GEORGIA 30309

| Total Attachments, 7 | |
|-------------------------|-------------------|
| DATE SIGNED: | 03/18/2021 |
| SIGNATURE: | /Wendy Y. Ballew/ |
| NAME OF SUBMITTER: | WENDY Y. BALLEW |
| ATTORNEY DOCKET NUMBER: | 10029-054US3 |

Total Attachments: 7

<u>ASSIGNMENT</u>

REGARDING Application Number 16/263,915, entitled "RECOMBINANT RSV WITH SILENT MUTATIONS, VACCINES, AND METHODS RELATED THERETO", filed on January 31, 2019, by inventors Martin L. Moore, Jia Meng, Anne Hotard, Elizabeth Littauer, & Christopher C. Stobart, NOW, THEREFORE, pursuant to the Intellectual Property Policy laid. out in Section 7.6 of the Emory University Policy Manual, for good and valuable consideration, the sufficiency and adequacy of which are hereby acknowledged, we, inventors Martin L. Moore of 144 Mockingbird Lane Decatur, Georgia 30030, Jia Meng of 1325 Keys Lake Drive NE Atlanta, Georgia 303019, Anne Hotard of 1406 Calibre Woods Drive NE Atlanta, Georgia 30329, Elizabeth Littauer of 1003 Clairemont Avenue Decatur, Georgia 30033, & Christopher C. Stobart of 302 Carlyle Lake Decatur Georgia 30033 hereby sell, assign and transfer to EMORY UNIVERSITY, a corporation of Georgia having a place of business at 1599 Clifton Road NE. 4th Floor, Atlanta, Georgia 30322, and its successors and assigns (collectively hereinafter "the Assignce"), our entire right, title, and interest throughout the world in the inventions and improvements that are the subject of the Application; this assignment including said Application, any and all divisional, continuing, substitute, renewal, reissee and all other applications for patent that have been or shall be filed in the United States and all foreign countries on any such inventions or improvements; all original and reissued patents that have been or shall be issued to the United States and all foreign countries on such inventions or improvements; and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said Application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we hereby authorize the Assignee to apply in all countries in our names or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective beirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

Assignment Page 1 of 6

| | IN W | ITNESS W | HEREOF, I | hereto set | my han | d and se | al at: | | | | |
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| A notary public or other officer completing this certificate document to which this certificate is attached, and not the | te verifies only the identity of the individual who signed the e truthfulness, accuracy, or validity of that document. |
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| State of California) | |
| County of San Water) | |
| On $\frac{N/8/2019}{Date}$ before me, $\frac{\sqrt{306}}{Date}$ personally appeared $\frac{\sqrt{3140}}{\sqrt{3140}}$ | SSA Warre Pamirez, Nobary Pobli Here Insert Name and Title of the Officer |
| | Name(s) of Signer(s) |
| subscribed to the within instrument and acknowle | evidence to be the person(s) whose name(s) is/are adged to me that he/she/they executed the same in s/her/their signature(s) on the instrument the person(s), ted, executed the instrument. |
| (| certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct. |
| VANESSA MAHIE HAMINGE | WITNESS my hand and official seal. |
| Commission # 2162858 My Comm. Expires Aug 18, 2020 | Signature of Notary Public |
| Place Notary Seal Above | 70NAL |
| Though this section is optional, completing this i | information can deter alteration of the document or form to an unintended document. |
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| Capacity(ies) Claimed by Signer(s) Signer's Name: | Signer's Name: |
| Signer's Name: Corporate Officer — Title(s): | Corporate Officer — Title(s): |
| ☐ Partner — ☐ Limited ☐ General | ☐ Partner — ☐ Limited ☐ General |
| ☐ Individual ☐ Attorney in Fact ☐ Trustee ☐ Guardian or Conservator | Individual Attorney in Fact |
| Other: | ☐ Trustee ☐ Guardian or Conservator ☐ Other: |
| Signer is Representing: | Signer is Representing: |
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| | Millbrae, ON. |
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| IN WITNESS WHEREOF, I hereto set r | ny hand and seal at: 14:111 and California |
| and the contract of the contra | , 20 1 7. (City and State or Country) |
| for the State of Georgia, there personally appeare me on the basis of Satisfactory evidence) to be the Assignment, who acknowledged having executed | |
| WITNESS my hand and official seal. | |
| | Karn Public Notary Public |

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| for the S proved this Ass that by I | to me on signment, his/her si | the basis of who acknowledge | ere personally a of satisfactory ev sowledged havin of this Assignmer | ppeared And ridence) to bug executed to | ne Hotard, person whe the person when the same in his/h | indersigned, a notar onally known to me ose name is subscri ier authorized capar son behalf of which | e (or bed to city and |
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| IN WITNESS WHEREOF, I hereto set my f | sand and seal at: | B.S. M. Li. 14 |
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| this 15th day of January | . 20 2 0. | (City and State or Country) |
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| | Elizal | æth Littauer |
| STATE OF Tare 1/12 SS. | | |
| COUNTY OF LAJAALA S | | |
| On 15 12 20 22 20 22 for the State of Georgia, there personally appeared El proved to me on the fasis of satisfactory evidence) to this Assignment, who acknowledged having executed that by his/her signature on this Assignment, the personacted, executed this Assignment. WITNESS my hand and official seal. | izabeth Littauer, be the person who the same in his/h on or the entity up | ose name is subscribed to er authorized capacity and |
| | Notary Public | |
| | 2 | 2004 TH OF PENETY SAME NOTABLE SELECTION NOTABLE SELECTION NOTABLE PROJECTION CASTS NOTABLE PROJECTION CASTS NOTABLE PROJECTION CASTS |

| IN WITNESS WHEREOF, I hereto set my hand and seal at: Avon, IN |
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| this /2 day of August , 2020. (City and State or Country) |
| Christopher C. Stobart |
| STATE OF Jah and) SS. JENNIFER R. ROBERTS Marion County My Commission Expires July 20, 2025 |
| On |

WITNESS my hand and official seal.

Assignment Page 6 of 6