508480106 04/05/2024

PATENT ASSIGNMENT COVER SHEET

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

CONVEYING PARTY DATA

| Name | Execution Date |
|----------------------|----------------|
| Peter A. Dowben | 01/03/2022 |
| Xiaoshan Xu | 01/04/2022 |
| Guanhua Hao | 10/18/2021 |
| Thilini K. Ekanayaka | 01/03/2022 |
| Xuanyuan Jiang | 01/19/2022 |
| Andrew J. Yost | 01/21/2022 |

RECEIVING PARTY DATA

| Company Name: Board of Regents of the University of Nebraska | |
|--|------------|
| Street Address: 3835 Holdrege Street | |
| City: | Lincoln |
| State/Country: | NEBRASKA |
| Postal Code: | 68583-7045 |

PROPERTY NUMBERS Total: 2

| Property Type | Number |
|---------------------|----------|
| Application Number: | 17583858 |
| Application Number: | 63141288 |

CORRESPONDENCE DATA

Fax Number: 3522600123

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: (352)505-2520

Email: docketing@talemip.com TALEM IP LAW LLP **Correspondent Name:**

1204 NW 69TH TERRACE Address Line 1:

Address Line 2: SUITE A

Address Line 4: GAINESVILLE, FLORIDA 32605

| ATTORNEY DOCKET NUMBER: | MAR-UNL-106X |
|-------------------------|-----------------|
| NAME OF SUBMITTER: | William Simmons |
| SIGNATURE: | William Simmons |
| DATE SIGNED: | 04/05/2024 |

PATENT REEL: 067018 FRAME: 0844 508480106

Total Attachments: 6 source=2021-034-01 Assignment UNL Signed#page1.tif source=2021-034-01 Assignment UNL Signed#page2.tif source=2021-034-01 Assignment UNL Signed#page3.tif source=2021-034-01 Assignment UNL Signed#page4.tif source=2021-034-01 Assignment UNL Signed#page5.tif source=2021-034-01 Assignment UNL Signed#page6.tif

PATENT REEL: 067018 FRAME: 0845

ASSIGNMENT

WHEREAS, WE,

Peter A. Dowben, having a residence in Crete, Nebraska, Xiaoshan Xu, having a residence in Lincoln, Nebraska, Guanhua Hao, having a residence in Lincoln, Nebraska, Thilini K. Ekanayaka, having a residence in Lincoln, Nebraska, Xuanyuan Jiang, having a residence in Gainesville, Florida, Andrew J. Yost, having a residence in Stillwater, Oklahoma,

(hereinafter "ASSIGNOR") are original joint inventors of the subject matter ("INVENTION") disclosed and/or claimed in the Patent Application ("APPLICATION") which:

| ☐ will be filed. ASSIGNOR | hereby authorizes and requests | Talem IP Law to insert this |
|------------------------------|--|-----------------------------|
| APPLICATION's Application | n No., filing date, and Office, wh | en known: |
| filed on | , Serial No. | , in the United States |
| Patent and Trademark Office; | | |
| | .021, Serial No. <u>63/141,288</u> , in th | ne United States Patent and |
| Trademark Office; | | |

WHEREAS, by virtue of and pursuant to our employment, or other agreement, with the THE UNIVERSITY OF NEBRASKA, we have assigned and do hereby assign all rights in the INVENTION to BOARD OF REGENTS OF THE UNIVERSITY OF NEBRASKA or its assignee or designee;

WHEREAS, BOARD OF REGENTS OF THE UNIVERSITY OF NEBRASKA, having an office at 3835 Holdrege Street, Lincoln, Nebraska 68583-7045 is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent which may be granted therefor in the United States and in any and all foreign countries;

NOW, THEREFORE, in view of good and valuable consideration, the sufficiency and receipt of which is hereby acknowledged, WE, the undersigned, confirm and ratify that WE have sold, assigned, and transferred, and by these presents do sell, assign, and transfer, unto said BOARD OF REGENTS OF THE UNIVERSITY OF NEBRASKA, its successors and assigns, the full and exclusive right to the said INVENTION in the United States and its territorial possessions and in all foreign countries and the entire right, title, and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, and extensions thereof.

WE hereby authorize and request the Patent Office Officials in the United States and in any and all foreign countries to issue any and all of said Letters Patent, when granted, to said BOARD OF REGENTS OF THE UNIVERSITY OF NEBRASKA, as the assignee of the entire right, title and interest in and to the same, for the sole use and behalf of said BOARD OF REGENTS OF THE UNIVERSITY OF NEBRASKA, its successors and assigns.

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FURTHER, WE agree that WE will communicate to said BOARD OF REGENTS OF THE UNIVERSITY OF NEBRASKA, or its representatives, any facts known to me respecting said invention; testify in any legal proceedings; sign all lawful papers; execute all divisional, continuation, substitution, renewal, and reissue applications; execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said BOARD OF REGENTS OF THE UNIVERSITY OF NEBRASKA; make all rightful oaths; and generally do everything possible to aid the said BOARD OF REGENTS OF THE UNIVERSITY OF NEBRASKA, its successors and assigns, to obtain and enforce proper protection for said invention in the United States and in any and all foreign countries.

| I, the | | y of |
|--------|--|-------|
| Januar | - <u>u</u> , 2022. | |
| | Pet Janl | |
| | Peter A. Dowben | |
| | said ASSIGNOR have executed this Assignment this da | ıy |
| | Xiaoshan Xu | |
| | said ASSIGNOR have executed this Assignment this da | ay |
| | Guanhua Hao | |
| | e said ASSIGNOR have executed this Assignment this3 dry, 2022. | ay |
| | Thilini Kumari (kan | ayaka |
| | ry, 2022. | |

Page 2 of 3

FURTHER, WE agree that WE will communicate to said BOARD OF REGENTS OF THE UNIVERSITY OF NEBRASKA, or its representatives, any facts known to me respecting said invention; testify in any legal proceedings; sign all lawful papers; execute all divisional, continuation, substitution, renewal, and reissue applications; execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said BOARD OF REGENTS OF THE UNIVERSITY OF NEBRASKA; make all rightful oaths; and generally do everything possible to aid the said BOARD OF REGENTS OF THE UNIVERSITY OF NEBRASKA, its successors and assigns, to obtain and enforce proper protection for said invention in the United States and in any and all foreign countries.

| | I, the said ASSIGNOR have executed, 2022. | d this Assignment this | day of |
|----|--|--------------------------|---|
| | | Peter A. Dowben | |
| of | I, the said ASSIGNOR have executed January, 2022. | d this Assignment this4_ | day |
| | | Man Xu | |
| | | Alaoshan Au | |
| of | I, the said ASSIGNOR have executed, 2022. | d this Assignment this | day |
| | | Guanhua Hao | *************************************** |
| | I, the said ASSIGNOR have executed, 2022. | d this Assignment this | day |
| | | | |
| | | Thilini K. Ekanayaka | |

Page 2 of 3

FURTHER, WE agree that WE will communicate to said BOARD OF REGENTS OF THE UNIVERSITY OF NEBRASKA, or its representatives, any facts known to me respecting said invention; testify in any legal proceedings; sign all lawful papers; execute all divisional, continuation, substitution, renewal, and reissue applications; execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said BOARD OF REGENTS OF THE UNIVERSITY OF NEBRASKA; make all rightful oaths; and generally do everything possible to aid the said BOARD OF REGENTS OF THE UNIVERSITY OF NEBRASKA, its successors and assigns, to obtain and enforce proper protection for said invention in the United States and in any and all foreign countries.

| I, the said ASSIGNOR have execute, 2021. | ed this Assignment this day of |
|---|-------------------------------------|
| | Peter A. Dowben |
| I, the said ASSIGNOR have execute, 2021. | ed this Assignment this day of |
| | Xiaoshan Xu |
| I, the said ASSIGNOR have execute October , 2021. | ed this Assignment this 18th day of |
| | Gula Cles |
| | Guanhua Hao |
| I, the said ASSIGNOR have execute, 2021. | ed this Assignment this day of |
| | Thilini K. Ekanavaka |

Page 2 of 3

| I, the said ASSIGNOR have execute | ed this Assignment this 19 day |
|--|--------------------------------|
| of | |
| | Xuanyuan Jiang |
| I, the said ASSIGNOR have execute of, 2022. | ed this Assignment this day |
| | Andrew J. Yost |
| | |
| Agreed and accepted this day of | , 2022. |
| BOARD OF REGENTS OF THE UNIVER | SITY OF NEBRASKA |
| By: | |
| Nama & Titla | |

| I, the said ASSIGNOR have execute of, 2022. | d this Assignment this day |
|--|--|
| | |
| | Xuanyuan Jiang |
| I, the said ASSIGNOR have execute day of, 2022. | ed this Assignment this21 |
| | argo |
| | Andrew J. Yost |
| to the | in a second |
| Agreed and accepted this day of | March , 2022. |
| BOARD OF REGENTS OF THE UNIVERS | |
| | Research and Economic Development |
| Vice Chancellor for + | Research and Economic Development |
| | |
| | |
| | parameter on the result approximate and to the common where the ended parameter and the common common common and the common an |
| | GENERAL NOTARY - State of Nebraska Mary M Guest My Comm. Exp. Dec. 29, 2024 |

Mary M Guest 3/17/2022

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