PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT4961130

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

CONVEYING PARTY DATA

| Name | Execution Date |
|---------------------|----------------|
| ROBERT LEVY | 01/19/2012 |
| IVAN ALFERIEV | 01/19/2012 |
| STANLEY STACHELEK | 01/19/2012 |
| JEANNE M CONNOLLY | 01/19/2012 |
| ABIGAIL J CHRISTIAN | 01/19/2012 |

RECEIVING PARTY DATA

| Name: | THE CHILDREN'S HOSPITAL OF PHILADELPHIA | |
|-----------------|---|--|
| Street Address: | 3401 CIVIC CENTER BOULEVARD | |
| City: | PHILADELPHIA | |
| State/Country: | PENNSYLVANIA | |
| Postal Code: | 19104 | |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 14232005 |

CORRESPONDENCE DATA

Fax Number: (215)590-5484

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: 2674267826

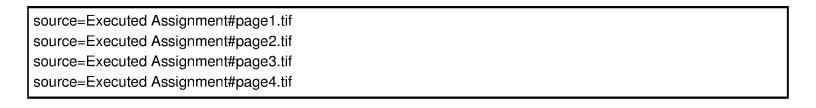
Email: lastes@email.chop.edu **Correspondent Name:** STEPHANIE LASTE Address Line 1: 2716 SOUTH STREET Address Line 2: 17TH FLOOR; STE 17421

PHILADELPHIA, PENNSYLVANIA 19146 Address Line 4:

| ATTORNEY DOCKET NUMBER: | 0554US |
|-------------------------|-------------------|
| NAME OF SUBMITTER: | STEPHANIE LASTE |
| SIGNATURE: | /STEPHANIE LASTE/ |
| DATE SIGNED: | 05/15/2018 |
| | • |

Total Attachments: 4

PATENT REEL: 045804 FRAME: 0127



PATENT REEL: 045804 FRAME: 0128

ASSIGNMENT OF INVENTION

WHEREAS, WE, Robert Levy, Ivan Alferiev, Stanley Stachelek, Jeanne Connolly, and Abigail Christian hereafter referred to as INVENTORS, have made a certain new and useful invention in Oxidation Resistant Bioprosthetic Tissues and Preparation Thereof and have filed an application Serial No. 61/506,400 for Letters Patent of the United States based thereon on July 11, 2011.

WHEREAS, WE, the INVENTORS, are associated with THE CHILDREN'S HOSPITAL OF PHILADELPHIA as employees of THE CHILDREN'S HOSPITAL OF PHILADELPHIA or were employees at the time of the conceived invention at THE CHILDREN'S HOSPITAL OF PHILADELPHIA.

WHEREAS, THE CHILDREN'S HOSPITAL OF PHILADELPHIA, a non-profit Corporation, organized and existing under the laws of the Commonwealth of Pennsylvania and having an office and place of business at 34th Street & Civic Center, Boulevard, Philadelphia, Pennsylvania 19104, is desirous of acquiring the entire right, title and interest in and to the invention and all improvements thereon which may be made, conceived or acquired by INVENTORS, during the course of their association with THE CHILDREN'S HOSPITAL OF PHILADELPHIA, aforesaid and for one year thereafter, in and throughout the United States, its territories and all countries foreign thereto, and in and to said application for Letters Patent, and in and to any and all utility patent applications and Letters Patents of the United States and all countries foreign thereto which have been granted or may be granted on said invention or any part thereof.

NOW, THEREFORE, IN CONSIDERATION of one or more of the following: (i) my continued employment at THE CHILDREN'S HOSPITAL OF PHILADELPHIA including its Research Institute (collectively, "THE CHILDREN'S HOSPITAL OF PHILADELPHIA"); (ii) my continued participation in research at THE CHILDREN'S HOSPITAL OF PHILADELPHIA; (iii) my continued access to THE CHILDREN'S HOSPITAL OF PHILADELPHIA facilities, funds, and other resources; and/or (iv) my continued opportunity to share in royalties and other inventor/author rights outlined in THE CHILDREN'S HOSPITAL OF PHILADELPHIA's current "Patent Policy" (the "Patent Policy), and intending to be legally bound, hereby agree to be legally bound by the Patent Policy and all of its terms conditions, wherein the receipt of such consideration is hereby acknowledged; INVENTORS, by these presents do hereby sell, assign and transfer unto the said THE CHILDREN'S HOSPITAL OF PHILADELPHIA the entire right, title, and interest in and throughout the United States, its territories and all countries foreign thereto in and to said invention, in and to said application for Letters Patent and any and all utility patent applications and Letters Patents and extensions thereof, of the United States and countries foreign thereto which have been or may be granted on said invention or any part thereof and any international priority rights associated therewith;

TO BE HELD AND ENJOYED by the said THE CHILDREN'S HOSPITAL OF PHILADELPHIA and its legal representatives and assigns to the full ends of the terms United States Patent Application No. 61/506,400 for which said Letters Patent, or any of them, have been granted as fully and entirely as the same would have been held and enjoyed by INVENTORS, had no sale and assignment of said interest been made; and INVENTORS, do hereby authorize and request the

Page 1 of 4

Commissioner of Patents and Trademarks to issue any and all Letters Patents which may be granted upon the said application above referred to, or any of them or upon said invention or any part thereof, to THE CHILDREN'S HOSPITAL OF PHILADELPHIA, and INVENTORS, hereby agree for myself, my heirs, executors and administrators, to execute without further consideration, any further legal documents and any further assignments and any releases, reissues, renewals or other application for Letters Patents that may be deemed necessary by THE CHILDREN'S HOSPITAL OF PHILADELPHIA, to fully secure to THE CHILDREN'S HOSPITAL OF PHILADELPHIA, its interest as aforesaid in and to said invention or any part thereof and in and to several Letters Patent or any of them.

INVENTORS, do hereby covenant for their self and their legal representatives, and agree with THE CHILDREN'S HOSPITAL OF PHILADELPHIA and its legal representatives, that INVENTORS, has granted no license to make or sell the said invention, that prior to the execution of this deed our right, title and interest in the said invention has not been encumbered, that INVENTORS, then had good right and title in and to the invention and that INVENTORS, have not executed and will not execute any instrument in conflict therewith.

| IN WITNESS WHEREOF, I, Robert Levy intending to be legally bound, have nereunto affixed my |
|---|
| hand and seal this day 19 of Javan 2011. |
| Josep luz |
| Robert Levy |
| STATE OF PENOSULVENIA |
| STATE OF THE RESIDENCE OF THE SS. |
| STATE OF Penosylvania City of Philadelphia ss. |
| Before me personally appeared said (X)) but I cu and acknowledged the |
| foregoing instrument to be his free act and deed this day /7 of January 2012. |
| Stephanie Aste (SEAL) COMMONWEALTH OF PENNSYLVANIA NOTARIAL SEAL |
| Notary Public My Commission Expires: December 23, 2014 STEPHANIE LASTE, Notary Public City of Philadelphia, Phila. County My Commission Expires December 23, 2014 |

| IN WITNESS WHEREOF, I, Ivan Alferiev intending to be legally bound, have he hand and seal this day 19 of January 2012. Talteriev Talt | |
|--|--|
| STATE OF Philaduphia State of Philaduphia Before me personally appeared said IVAN Afferey and a foregoing instrument to be his free act and deed this day 19th of 100 Month of Penns Notary Public (SEAL) Notary Public My Commission Expires: 10 Centre 3, 2014 My Commission Expires: 10 Centre 3, 2014 STEPHANIE LASTE, Notary City of Philadelphia, Phila. C. My Commission Expires December | The same of the sa |
| IN WITNESS WHEREOF, I, Stanley Stachelek, intending to be legally bound, he my hand and seal this day 19 of 140460 2012. | ave hereunto affixed |
| Before the personally appeared to the day of the of the day of the day of the of the day of the of the day o | County |

| IN WITNESS WHEREOF, I, Jeanne Connolly, intending to be legally bound, have hereunto affixed my hand and seal this day 19th of January 2012. Jeanne Connolly |
|---|
| STATE OF PENNSYLVANIA ss. CITY OF PHILADELPHIA Before me personally appeared said 2000 000 000 and acknowledged the foregoing instrument to be his free act and deed this day 19th of 2011. **COMMONWEALTH OF PENNSYLVANIA** NOTARIAL SEAL STEPHANIE LASTE, Notary Public City of Philadelphia, Phila. County My Commission Expires: December 23, 2014 |
| Abigail J Christian IN WITNESS WHEREOF, I, was a seal this day 19th of January 2012 Wayau J Muslum Abigail Christian |
| STATE OF PENNSYLVANIA SS. CITY OF PHILADELPHIA Before me personally appeared said Abigai Thristian and acknowledged the foregoing instrument to be his free act and deed this day Introf January 2011. (SEAL) Notary Public My Commission Expires: December 23, 2014 |

Page 4 of 4

PATENT REEL: 045804 FRAME: 0132