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| PATENT ASSIGNMENT COVER SHEET |
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Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT4569388

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| STEVEN R. LITTLE | 02/07/2012 |
| RECEIVING PARTY DATA | |
| Name: | UNIVERSITY OF PITTSBURGH - OF THE COMMONWEALTH SYSTEM OF HIGHER EDUCATION |
| Street Address: | 130 THACKERAY AVENUE, 1ST FLOOR GARDNER STEEL CONFERENCE CENTER (GSCC) |
| Internal Address: | INNOVATION INSTITUTE |
| City: | PITTSBURGH |
| State/Country: | PENNSYLVANIA |
| Postal Code: | 15260 |
| Name: | MASSACHUSETTS INSTITUTE OF TECHNOLOGY |
| Street Address: | 77 MASSACHUSETTS AVENUE |
| City: | CAMBRIDGE |
| State/Country: | MASSACHUSETTS |
| Postal Code: | 02139-4307 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 15674128 |
| CORRESPONDENCE DATA | |
| Fax Number: | (510)788-8786 |
| <i>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.</i> | |
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| Address Line 1: | 1440 BROADWAY, SUITE 1010 |
| Address Line 4: | OAKLAND, CALIFORNIA 94612 |
| ATTORNEY DOCKET NUMBER: | UPITT-18711 |
| NAME OF SUBMITTER: | ABBY EVERSON |
| SIGNATURE: | /abby everson/ |

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| DATE SIGNED: | 08/28/2017 |
| Total Attachments: 2 source=assign17820cont#page1.tif source=assign1595.upitt.mit.gtk#page1.tif | |

In accordance with C.F.R. 1.63(d)(iv), the attached Assignment is to be used for Continuation Appln. Entitled: Artificial Cell Constructs for Cellular Manipulation. Filed: 08/18/2017 Attorney Docket No. UPITT-18711

G.T.K. 08/25/2017

PATENT Attorney Docket No.: UPITT-17278

ASSIGNMENT

WHEREAS, I, Steven R. Little, hereinafter referred to as "ASSIGNOR", has invented certain new and useful improvements as described and set forth in the below-identified application for United States Letters Patent:

Title of Invention: Artificial Cell Constructs for Cellular Manipulation
Filing Date: 01/09/2012 Serial No.: 13/383,122

WHEREAS, University of Pittsburgh - Of The Commonwealth System Of Higher Education, a Pennsylvania corporation, 200 Gardner Steel Conference Center, Thackeray & O'Hara Streets, Pittsburgh, Pennsylvania 15260 and Massachusetts Institute of Technology, 77 Massachusetts Avenue, Cambridge, Massachusetts 02139-4307, hereinafter referred to as "ASSIGNEES", are desirous of acquiring the entire right, title and interest in said invention and application and in any Letters Patent which may be granted on the same; NOW THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for and in consideration of the sum of One Dollar (\$1.00) lawful money paid to ASSIGNOR by ASSIGNEE and other good and valuable consideration, receipt of which is hereby acknowledged, ASSIGNOR has sold, assigned and transferred, and by these presents does sell, assign and transfer unto said ASSIGNEE, and ASSIGNEE's successors and assigns, all right, title and interest in and to said invention, said application for United States Letters Patent, and any Letters Patent which may hereafter be granted on the same in the United States and all countries throughout the world including any divisions, renewals, continuations in whole or in part, substitutions, conversions, reissues, prolongations or extensions thereof, said interest to be held and enjoyed by said ASSIGNEE as fully and exclusively as it would have been held and enjoyed by said ASSIGNOR had this assignment and transfer not been made, to the full end and term of any Letters Patent.

ASSIGNOR further agrees that ASSIGNOR will, without charge to said ASSIGNEE, but at ASSIGNEE's expense, cooperate with ASSIGNEE in the prosecution of said application and/or applications; execute, verify, acknowledge and deliver all such further papers, including applications for Letters Patent and for the reissue thereof, and instruments of assignment and transfer thereof; and will perform such other acts as ASSIGNEE lawfully may request, to obtain or maintain Letters Patent for said invention and improvement in any and all countries, and to vest title thereto in said ASSIGNEE, or ASSIGNEE's successors and assigns.

IN TESTIMONY WHEREOF, ASSIGNOR has hereunto signed ASSIGNOR's name to this assignment on the date indicate, below.

Signature of Steven R. Little and date 2/7/2012

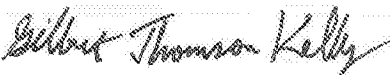
STATE OF Pennsylvania)
COUNTY OF Allegheny) ss.

On this 7th day of February, in the year of 2012, before me, the undersigned notary public, personally appeared the above-named ASSIGNOR, known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged that he/she executed the same.

Signature of Carend Crawford, NOTARY PUBLIC

COMMONWEALTH OF PENNSYLVANIA Notarial Seal Carend D. Crawford, Notary Public City of Pittsburgh, Allegheny County My Commission Expires Sept. 1, 2013 Member, Pennsylvania Association of Notaries

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| Form PTO-1595 | RECORDATION FORM COVER SHEET | | U.S. Department of Commerce Patent and Trademark Office |
| PATENTS ONLY | | | |
| To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof. | | | |
| 1. Name of conveying party(ies): Little, Steven R. | 2. Name and address of receiving party(ies): University of Pittsburgh - Of the Commonwealth System of Higher Education 200 Gardner Steel Conference Center Thackeray and O'Hara Streets Pittsburgh, Pennsylvania 15260 and Massachusetts Institute of Technology 77 Massachusetts Avenue Cambridge, Massachusetts 02139-4307 | | |
| Additional name(s) of conveying party(ies) attached? No | Additional name(s) & address(es) attached? No | | |
| 3. Nature of conveyance: Change of Assignment Execution Date: 02/07/2012 | | | |
| 4. Title of Inventions: Artificial Cell Constructs for Cellular Manipulation | | | |
| A. Patent Application No.(s): 15/674,128 | B. Patent No.(s): | | |
| Additional numbers attached? | | | |
| 5. Name and address of party to whom correspondence concerning document should be mailed: Peter G. Carroll MEDLEN & CARROLL, LLP 1440 Broadway, Suite 1010 Oakland, California 94612 | 6. Total number of applications and patents involved: 7. Total fee(s): Effective January 01, 2014, as an electronic submission, payment in the amount of \$40 (\$40 Recordation fee) is not submitted. 8. Deposit Account Authorization: The Commissioner is hereby authorized to charge any additional fees or credit any overpayment to Deposit Account No. 08-1290 . | | |
| DO NOT USE THIS SPACE | | | |
| 9. Statement and Signature: <i>To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.</i> | | | |
| Date: <u>August 25, 2017</u> | Signature:  Name: Gilbert Thomson Kelly Reg. No.: 70,988 | | |