

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
HONGBIN JIANG	01/21/2020
WILLIAM R. WAGNER	07/11/2019
TOMO YOSHIZUMI	01/25/2020
YANG ZHU	01/14/2020
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<b>City:</b>	PITTSBURGH
<b>State/Country:</b>	PENNSYLVANIA
<b>Postal Code:</b>	15260
<b>PROPERTY NUMBERS Total: 3</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	61979244
<b>Application Number:</b>	15304106
<b>PCT Number:</b>	US2015025728
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<b>ATTORNEY DOCKET NUMBER:</b>	6527-1604864
<b>NAME OF SUBMITTER:</b>	JESSE A. HIRSHMAN, REG. NO. 40,016
<b>SIGNATURE:</b>	/Jesse A. Hirshman/

<b>DATE SIGNED:</b>	01/31/2020
<b>Total Attachments: 6</b> source=Assignment#page1.tif source=Assignment#page2.tif source=Assignment#page3.tif source=Assignment#page4.tif source=Assignment#page5.tif source=Assignment#page6.tif	

Application No. 15/304,016

Attorney Docket No. 6527-1604864

**ASSIGNMENT**

WHEREAS, as a below named inventor, I have invented certain new and useful improvements in

**BIODEGRADABLE, THERMALLY RESPONSIVE INJECTABLE HYDROGEL FOR  
TREATMENT OF ISCHEMIC CARDIOMYOPATHY**

(Invention Title)

☒ for which a United States Provisional Patent application was filed on 04/14/2014 (mm/dd/yyyy) and bears Application Number 61/979,244 (hereinafter "said application").

AND/OR

☐ for which I have this day executed an application for a United States Patent (hereinafter "said application").

AND/OR

☒ for which an application for a United States Patent was filed on 04/14/2015 (mm/dd/yyyy) and bears Application Number 15/304,106 (hereinafter "said application").

AND/OR

☒ for which an international patent application was filed under the Patent Cooperation Treaty on 04/14/2015 (mm/dd/yyyy), bearing Application No. PCT/US2015/025728 (hereinafter "said application").

AND, WHEREAS, University of Pittsburgh – Of the Commonwealth System of Higher Education, a non-profit corporation, organized and existing under the laws of the Commonwealth of Pennsylvania, having a place of business at 1st Floor Gardner Steel Conference Center, 130 Thackeray Avenue, Pittsburgh, PA 15260, United States of America, hereinafter called the "assignee", is desirous of acquiring the entire right, title, and interest in and to said application and the inventions and improvements therein disclosed.

NOW, THEREFORE, for good and valuable consideration paid to me by said assignee, the receipt of which is hereby acknowledged, I as the inventor or as one of the inventors, hereinafter the assignor(s), do hereby assign, sell and transfer unto said assignee the full and exclusive right, title and interest in and to said application and the inventions and improvements therein disclosed for the United States and all foreign countries and any Letters Patent which may issue therefor in the United States and all foreign countries and all divisionals, non-provisionals, reissues, continuations, continuations-in-part, renewals and/or extensions thereof. Such assignment extends to the full ends of the terms of these applications and patents as fully and entirely as the same would have been held and enjoyed by me had this Assignment not been made.

I covenant that I am the lawful owner(s) of said application, inventions and improvements, that the same are unencumbered, that no license has been granted to make, use or vend the said inventions or improvements or any of them, and that I have the full right to make this Assignment.

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And for the consideration aforesaid, I agree individually and, if applicable, jointly that I will communicate to said assignee or the representatives thereof any facts known to me respecting said inventions and improvements, and will, upon request but without expense to me, testify in any legal proceedings, sign all lawful papers, execute all divisional, non-provisional reissue, continuation, continuation-in-part, renewal and/or extension applications, make all rightful oaths, and generally do all other and further lawful acts deemed necessary or expedient by said assignee or by counsel for said assignee to assist or enable said assignee to obtain and enforce full benefits from the rights and interests herein assigned. This Assignment shall be binding upon my heirs, executors, administrators and/or assigns, and shall inure to the benefit of the heirs, executors, administrators, successors and/or assigns, as the case may be, of said assignee.

1. FULL NAME OF ASSIGNOR:

RESIDENCE:

Hongbin Jiang

Export, PA

EXECUTED this 21 day of January, 2020

[Signature]  
SIGNATURE

WITNESS:

[Signature]  
Name: MARY JO DORSEY

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☒ Checked Box indicates 4 additional page(s).

Application No. 15/304,016

Attorney Docket No. 6527-1604864

2. FULL NAME OF ASSIGNOR:

William R. Wagner

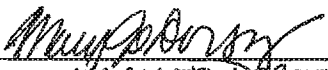
RESIDENCE:

Gibsonia, PA

EXECUTED this 11 day of JULY, 2019

  
SIGNATURE

WITNESS:

  
Name: MARY JO DORSEY

Application No. 15/304,016

Attorney Docket No. 6527-1604864

3. FULL NAME OF ASSIGNOR:  
Tomo Yoshizumi

RESIDENCE: Nagoya, Japan  
-Pittsburgh, PA-

EXECUTED this 23 day of January, 2020



SIGNATURE

WITNESS:

Mariko Yoshizumi

Name:

Application No. 15/304,016

Attorney Docket No. 6527-1604864

4. FULL NAME OF ASSIGNOR:

Yang Zhu

RESIDENCE:

Pittsburgh, PA

EXECUTED this 14 day of January, 2020 Yang Zhu  
SIGNATURE

WITNESS:

Gang Wu  
Name: Gang Wu

Application No. 15/304,016

Attorney Docket No. 6527-1604864

Acknowledgement of this Assignment is made by/on behalf of the Assignee:

NAME OF ASSIGNEE:

University of Pittsburgh – Of the Commonwealth  
System of Higher Education

PLACE OF BUSINESS:

Pittsburgh, Pennsylvania

EXECUTED this 21<sup>st</sup> day of August, 2019



SIGNATURE

Name: Evan Facher, Ph.D., MBA

Title: Director, Innovation Institute

Vice Chancellor for Innovation and  
Entrepreneurship

WITNESS:



Name: MARTINA C. FELTON