

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT4230590

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
THE BOARD OF TRUSTEES OF THE UNIVERSITY OF ARKANSAS	01/13/2017
RECEIVING PARTY DATA	
Name:	BOARD OF TRUSTEES OF THE UNIVERSITY OF ARKANSAS
Street Address:	2404 NORTH UNIVERSITY AVENUE
City:	LITTLE ROCK
State/Country:	ARKANSAS
Postal Code:	72207
Name:	BIOVENTURES, LLC
Street Address:	4301 W. MARKHAM ST., #831
City:	LITTLE ROCK
State/Country:	ARKANSAS
Postal Code:	72205-7199
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	14256323
CORRESPONDENCE DATA	
Fax Number:	(314)231-1776
<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>	
Phone:	314-889-8000
Email:	ipdocket@polsinelli.com
Correspondent Name:	POLSINELLI PC
Address Line 1:	100 SOUTH FOURTH STREET
Address Line 2:	SUITE 1000
Address Line 4:	ST. LOUIS, MISSOURI 63102-1825
ATTORNEY DOCKET NUMBER:	052595-469204
NAME OF SUBMITTER:	CHRISTINA M. SPENCER, PGA
SIGNATURE:	/Christina M. Spencer/
DATE SIGNED:	01/18/2017

Total Attachments: 7

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UNITED STATES PATENT ASSIGNMENT

1. WHEREAS, the Board of Trustees of the University of Arkansas, a University, with offices at 2404 North University Avenue, Little Rock, Arkansas 72207 ("Assignor"), is the owner of the entire right, title, and interest in and to certain letters patent and patent applications throughout the world and the inventions disclosed therein; and
2. WHEREAS, BIOVENTURES, LLC, an Arkansas limited liability company, with offices at 4301 W. Markham St., #831, Little Rock, Arkansas 72205-7199 ("Assignee"), is desirous of acquiring said right, title and interest of Assignor;
3. NOW, THEREFORE, in consideration of the sum of one dollar (\$1.00) and other good and valuable consideration by Assignee to Assignor in hand paid, receipt of all of which is hereby acknowledged, Assignor has agreed to and does hereby sell, assign and transfer unto Assignee, its successors and assigns, all of Assignor's right, title and interest in and throughout the world, in and to said letters patent and patent application and all reissues thereof and reexamination certificates therefore, and the inventions disclosed therein, including Assignor's full right to sue for and recover all damages recoverable from past infringements of said letters patent; including specifically, without limiting the generality of the foregoing, the worldwide letters patent and patent applications listed in Appendix A; and Assignor has further agreed to and does hereby sell, assign and transfer unto Assignee, its successors and assigns, all of Assignor's right, title and interest in and throughout the world in and to said inventions, any other patent applications (including provisional, non-provisional, divisional, continuing, or reissue applications) based in whole or in part on said worldwide letters patent or patent applications or in whole or in part on said inventions, and any and all letter patent (including extensions thereof) of any country which have been or may be granted on any of the aforesaid patent applications or on said inventions or any part thereof; including, specifically, without limiting the generality of the foregoing, the worldwide letters patent and patent applications listed in Appendix A.
4. TO BE HELD AND ENJOYED BY Assignee, its successors and assigns, to the full ends of the respective terms for which said patents have been or may be granted, as fully and entirely as the same would have been held and enjoyed by Assignor had this sale and assignment not been made.
5. AND Assignor hereby authorizes and requests the Patent Offices of the countries wherein said patent applications are filed to issue any and all letters patent which may be granted upon said foreign country patent applications to Assignee, its successors and assigns.
6. AND Assignor hereby agrees to execute without further consideration any further lawful documents and any further assurances, and any provisional, non-provisional, divisional, continuing, reissue or other applications for patents of any country, that may be deemed necessary by said Assignee, its successors or

assigns fully to secure its interest as aforesaid in and to said inventions or any part thereof, and in and to said several patents or any of them.

7. AND Assignor covenants that Assignor has granted no right or license to make, use or sell said inventions to anyone except said Assignee, that prior to the execution of this deed, Assignor's right, title, and interest in said inventions has not been otherwise encumbered, and that Assignor has not executed and will not execute any instrument in conflict herewith.

ASSIGNOR (BOARD OF TRUSTEES OF THE
UNIVERSITY OF ARKANSAS)

Daniel W Rah
By: _____
Title: Chancellor
Date: 1/13/17

ACKNOWLEDGMENT

STATE OF Arkansas)
) SS.
COUNTY OF Pulaski)

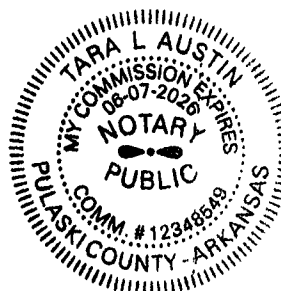
On this 13 day of January, 2017, before me, a Notary Public,
personally appeared Daniel W Rah
to me to be the person described, in and who executed, the foregoing
assignment and acknowledged that he/she executed said instrument as his/her
free act and deed.

In Testimony Whereof, I have hereunto set my hand and affixed my official
seal the day and year first above written.

[Signature]
Notary Public

My Commission Expires:

6-7-26 [SEAL]



ASSIGNEE (BIOVENTURES, LLC)

Nancy M. Gray
By: NANCY M. GRAY, Ph.D.
Title: PRESIDENT

Date: January 10, 2017

ACKNOWLEDGMENT

STATE OF Arkansas

) SS.

COUNTY OF Pulaski

On this 10th day of January, 2017, before me, a Notary Public,
personally appeared Nancy M. Gray
to me to be the person described, in and who executed, the foregoing
assignment and acknowledged that he/she executed said instrument as his/her
free act and deed.

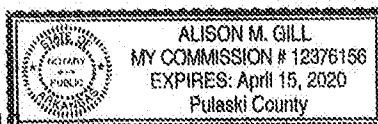
In Testimony Whereof, I have hereunto set my hand and affixed my official
seal the day and year first above written.

Alison M. Gill
Notary Public

My Commission Expires:

4/15/2020

[SEAL]



APPENDIX A

55700159.1

PATENT
REEL: 041007 FRAME: 0037

Schedule A

Ref #	Client Ref #		Title	Serial #
052592-458343	2012-25	US	NUCLEIC ACID PROBES AND METHODS OF USING THE SAME	14/056,497
052592-469204	2013-22	US	METHODS FOR IMPROVING HEART FUNCTION	14/256,323
052592-482199	2012-23	US	COMPOSITIONS AND METHODS FOR NON-INVASIVE DETECTION AND TREATMENT OF HYPOXIC CELLS IN VIVO	14/408,249
052592-484841	2011-27	US	METHODS AND COMPOSITIONS FOR REGULATING MUSASHI FUNCTION	14/559,514
052592-485853	2012-20	US	IN VIVO PHOTOACOUSTIC AND PHOTOTHERMAL NANO-THERANOSTICS OF BIOFILMS	14/552,143
052592-486770	2012-20	US	DEVICE AND METHOD FOR IN VIVO PHOTOACOUSTIC DIAGNOSIS AND PHOTOTHERMAL PURGING OF INFECTED BLOOD	14/668,418
052592-486772	2013-07	US	SONOLYSIS WITH BIODEGRADABLE	14/429,848
052592-489549-1	2014-21	US	INHIBITORS OF OXIDIZED LOW-DENSITY LIPOPROTEIN RECEPTOR 1 AND METHODS OF	62/248,586
052592-491330	2013-20	US	INDOLE COMPOUNDS FOR USE IN TREATING INFLAMMATION AND CANCER	14/651,113
052592-492794	2012-20	US	IN VIVO PHOTOACOUSTIC AND PHOTOTHERMAL NANO-THERANOSTICS OF BIOFILMS	14/728,849
052592-496236	2011-02	US	DEVICE AND METHOD FOR IN VIVO NONINVASIVE MAGNETIC MANIPULATION OF CIRCULATING OBJECTS IN BIOFLOWS	14/754,034
052592-496238	2012-17	US	ANTIBODY-NANOPARTICLE CONJUGATES FOR THE TREATMENT OF DRUG ABUSE	14/775,227
052592-498706	2013-25	US	COMBRETASTATIN ANALOGS	14/785,381
052592-498710	2013-27	US	POLYMERASE, ENDONUCLEASE, AND HELICASE INHIBITORS AND METHODS OF USING THEREOF	14/786,331
052592-499050	2013-24	US	AMPHIBIAN OOCYTE OR EMBRYO BIOASSAY	14/785,196
052592-499797	2013-24	US	PARTHENOLIDE DERIVATIVES AND THEIR MODULATION OF PROCESSES CONTROLLED BY REGULATED TRANSLATION	14/785,183
052592-500134	08-16D/CON	US	DEVICE AND METHOD FOR IN VIVO FLOW CYTOMETRY USING THE DETECTION OF	14/939,039
052592-500139	2013-29	US	METHODS AND COMPOSITIONS FOR EXPANDING LONG-TERM HEMATOPOIETIC STEM CELL	14/903,548
052592-501657	2013-33	US	DEHYDROLEUCODINE DERIVATIVES AND USES THEREOF	14/903,545
052592-507030	2016-10	US	METHODS TO CLASSIFY MULTIPLE MYELOMA	62/253,537
052592-507911	2016-12	US	SECURING DEVICE FOR INTRACRANIAL ELECTRODE	62/357,697
052592-509092	2016-13	US	DUAL-PURPOSE BIOPSY COLLECTION CONTAINER AND TISSUE PROCESSING CASSETTE	62/289,624
052592-509967	2013-02	US	METHODS AND KITS FOR ISOLATION AND ANALYSIS OF A CHROMATIN REGION	15/012,535

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052592-510198	2016-14	US	TRIAZOLE DERIVATIVES OF MELAMPOMAGNOLIDE B AND METHODS OF USE THEREOF	62/289,017
052592-511579	2016-20	US	A Platform-independent Gene Expression Signature Differentiates Sessile Serrated Colon Polyps and Hyperplastic Polyps	62/277,817
052592-540406	2013-30	US	ACETAMINOPHEN ADDUCTS AND METHODS OF USE THEREOF	15/118,297
052592-544264	2016-27	US	COMPOUNDS THAT INDUCE DEGRADATION OF ANTI-APOPTOTIC BCL-2 FAMILY PROTEINS AND THE USES THEREOF	62/325,856
052592-548889	2015-21	US	COMPOSITIONS AND METHODS FOR GENERATING REVERSION FREE ATTENUATED AND/OR REPLICATION INCOMPETENT VACCINE VECTORS	62/383,907
052592-550603	2013-02	US	METHODS AND KITS FOR ISOLATION AND ANALYSIS OF A CHROMATIN REGION	15/227,541
052592-550606	2015-11	US	MELAMPOMAGNOLIDE B DERIVATIVES	15/251,889
052592-550607	2014-12	US	MELAMPOMAGNOLIDE B DERIVATIVES	15/254,849
052592-551625	2011-11	US	DEVICE AND METHOD FOR IN VIVO DETECTION OF CLOTS WITHIN CIRCULATORY VESSELS	15/240,712
052592-551959	2014-29	US	DISUBSTITUTED TRIAZOLE ANALOGS	15/282,312
052592-554793	2014-32	US	COMPOSITIONS AND METHODS FOR MODULATING NEURONAL DEGENERATION	15/320,148
052592-555692	2014-28	US	COMPOSITIONS AND METHODS FOR INHIBITING ANTI-APOPTOTIC Bcl-2 PROTEINS AS ANTI-AGING AGENTS	15/308,552
052592-483291	2015-04	WO	METHODS TO DETECT IMMUNOGLOBULIN HEAVY CHAIN AND METHODS OF USE THEREOF	PCT/US2014/063719
052592-491007	2014-28	WO	COMPOSITIONS AND METHODS FOR INHIBITING ANTI-APOPTOTIC Bcl-2 PROTEINS AS ANTI-AGING AGENTS	PCT/US2015/029208
052592-491673	2014-32	WO	COMPOSITIONS AND METHODS FOR MODULATING NEURONAL DEGENERATION	PCT/US2015/036755
052592-492342	2015-02 (44237-727.601)	WO	COMPOSITIONS AND METHODS FOR SELECTIVELY DEPLETING SENESCENT CELLS	PCT/US2015/041470
052592-500485	2015-05	WO	MELAMPOMAGNOLIDE B DIMERS	PCT/US2015/063792
052592-501686	2014-04	WO	ANTI-ACETAMINOPHEN ANTIBODIES AND ACETAMINOPHEN PROTEIN ADDUCTS	PCT/US2015/063786
052592-509324	2014-24	WO	DEVICES AND METHODS FOR FRACTIONATED PHOTOACOUSTIC FLOW CYTOMETRY	PCT/US2015/068341
052592-511719	2015-08 (WSGR44237-742.601)	WO	FLIP - A SELECTIVE MOLECULAR TARGET OF SENESCENT CELLS	PCT/US2016/014518
052592-511720	2015-09 (WSGR44237-743.601)	WO	FAS AND DRs ARE NOVEL MOLECULAR TARGETS OF SENESCENT CELLS	PCT/US2016/014510

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052592-542434	2012-20	WO	IN VIVO PHOTOACOUSTIC AND PHOTOTHERMAL NANO-THERANOSTICS OF BIOFILMS	PCT/US2016/035512
052592-544590	2015-20	WO	COMPOSITIONS AND METHODS FOR DETECTING SESSILE SERRATED ADENOMAS/POLYPS	PCT/US2016/032466
052592-550602	2015-25	WO	ELECTRODE FOR PERIPHERAL NERVE STIMULATION	PCT/US2016/052488
052592-551032	2016-10	WO	METHODS TO CLASSIFY MULTIPLE MYELOMA	PCT/US2016/061323
052592-554538	2014-21	WO	INHIBITORS OF OXIDIZED LOW-DENSITY LIPOPROTEIN RECEPTOR 1 AND METHODS OF USING THEREOF	PCT/US2016/059415
052592-554794	2016-08	WO	HETERO-SUBSTITUTED CYCLIC LACTONE ANALOGUES AND USES THEREOF	PCT/US2016/060318