506226782 08/28/2020

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6273526

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JEFFREY T. KOBERSTEIN	10/13/2018
SANJOY SAMANTA	08/04/2020
CHATHURANGA DE SILVA	08/28/2020

RECEIVING PARTY DATA

Name:	THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK		
Street Address:	412 LOW MEMORIAL LIBRARY		
Internal Address:	535 WEST 116TH STREET		
City:	NEW YORK		
State/Country:	NEW YORK		
Postal Code:	10027		

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15532405

CORRESPONDENCE DATA

Fax Number: (914)288-0023

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.

9148213097 Phone:

Email: uspto@leasonellis.com LEASON ELLIS LLP Correspondent Name:

Address Line 1: ONE BARKER AVENUE, FIFTH FLOOR Address Line 4: WHITE PLAINS, NEW YORK 10601

ATTORNEY DOCKET NUMBER:	01001/005902-US4
NAME OF SUBMITTER:	MICHAEL A. DAVITZ
SIGNATURE:	/Michael A. Davitz/
DATE SIGNED:	08/28/2020

Total Attachments: 10 source=02558614#page1.tif source=02558614#page2.tif

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ASSIGNMENT

- I, Jeffrey T. Koberstein, having a residence at Cataumet, MA, 02534;
- I, Sanjoy Samanta, having a residence at Selmabad, IN, 721454;
- 1, Chathuranga De Silva, having a residence at New York, NY, 10027;

(hereinafter "ASSIGNORS") in consideration of good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, furnished to ASSIGNORS by

The Trustees of Columbia University in the City of New York

a Corporation having a place of business at 412 Low Memorial Library, 535 West 116th Street, New York, NY 10027 (hereinafter "ASSIGNEE"), do hereby sell and assign to said ASSIGNEE, its successors and assigns, the below indicated entire right, title, and interest, throughout the world in and to our Invention entitled:

BIODEGRADABLE THERMO-RESPONSIVE POLYMERS AND USES THEREOF

invented by us and described in U.S. Patent Application No. 15/532,405 filed January 11, 2018, in the United States of America; and any and all improvements thereto, and in and to the application and any division, continuation, or continuation-in-part thereof, and in and to any Letters Patent of the United States which may be issued on any of said applications, and any reissues or re-exams thereof, and in and to any and all applications for Letters Patent filed in foreign countries for said invention or improvements, including all priority rights, and any and all Letters Patent which may be granted in foreign countries therefor, and in and to any other applications based in whole or in part on any of the foregoing, said interest being our entire ownership interest in the same, to be held and enjoyed by said ASSIGNEE, its successors, assigns, or other legal representatives, to the full end of the term thereof, as fully and entirely as the same would have been held and enjoyed by us if this assignment and sate had not been made, including all rights of Assignor to recover for past infringement thereof;

And for the consideration aforesaid, we hereby covenant and agree to and with said ASSIGNEE, its successors and assigns, that whenever ASSIGNEE, its counsel or

1

representative, or the counsel or representative of its successors or assigns, shall advise that an amendment to, or a division of, or any other proceeding or action in connection with an application concerning said Invention is lawful and desirable, or that a reissue or continuation or extension of such application or patent issuing therefrom is lawful and desirable, we will sign all papers and drawings, take all rightful oaths and affidavits, and do all acts necessary or required to be done for the procurement of all lawful rights associated with the Invention, or for the reissue or continuation or extension of the same, will do all acts necessary or required to secure in said ASSIGNEE, its successors or assigns, the title to and full benefit of all rights hereby assigned, without charge to said ASSIGNEE or its successors or assigns, but at its or their expense; and we hereby appoint every present or future officer of said ASSIGNEE as our agent to sign all such papers and to do all such necessary acts on our behalf, to the fullest extent permitted by law;

And we hereby authorize and request the Commissioner of Patents and Trademarks and any other granting authority to issue any Letters Patent resulting from said Invention and application(s) concerning same to said ASSIGNEE.

This assignment shall have an effective date corresponding to the last date of execution.

We represent and warrant that we have the full power to make this assignment and that the rights, titles, and interests assigned are not encumbered by any grant, license, or right heretofore given.

We declare under penalty of perjury under the laws of the United States of America, and under penalty of the laws of any other jurisdiction before which this document may be presented, that we have signed this document as our own free act and that all of the foregoing is true and correct.

2

Dated: 10/13/2018	Jeffrey J. Koberstein, Inventor
Dated:	Sanjoy Samanta, Inventor
Dated:	Chathuranga De Silva, Inventor
The Commonwealth of Massachusetts On this 13+h day of OCAD be 20 18, Left-cy T KOBESECIN personally appeared before me, and proved to me through satisfactory evidence of identification, which were IMA DL to be the person whose name is signed on the preceding or attached document in my presence. Magazine Kelhoe Notary Public My Commission Expires OUID 1223	MEGAN KEHOE Notary Public COMMONWEATH OF MASSACHUSETTS My Commission Expires April 6, 2023

ASSIGNMENT

- I, Jeffrey T. Koberstein, having a residence at Cataumet, MA, 02534;
- I, Sanjoy Samanta, having a residence at Selmabad, IN, 721454;
- I, Chathuranga De Silva, having a residence at New York, NY, 10027;

(hereinafter "ASSIGNORS") in consideration of good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, furnished to ASSIGNORS by

The Trustees of Columbia University in the City of New York

a Corporation having a place of business at 412 Low Memorial Library, 535 West 116th Street, New York, NY 10027 (hereinafter "ASSIGNEE"), do hereby sell and assign to said ASSIGNEE, its successors and assigns, the below indicated entire right, title, and interest, throughout the world in and to our Invention entitled:

BIODEGRADABLE THERMO-RESPONSIVE POLYMERS AND USES THEREOF

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And for the consideration aforesaid, we hereby covenant and agree to and with said ASSIGNEE, its successors and assigns, that whenever ASSIGNEE, its counselettent

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representative, or the counsel or representative of its successors or assigns, shall advise that an amendment to, or a division of, or any other proceeding or action in connection with an application concerning said Invention is lawful and desirable, or that a reissue or continuation or extension of such application or patent issuing therefrom is lawful and desirable, we will sign all papers and drawings, take all rightful oaths and affidavits, and do all acts necessary or required to be done for the procurement of all lawful rights associated with the Invention, or for the reissue or continuation or extension of the same, will do all acts necessary or required to secure in said ASSIGNEE, its successors or assigns, the title to and full benefit of all rights hereby assigned, without charge to said ASSIGNEE or its successors or assigns, but at its or their expense; and we hereby appoint every present or future officer of said ASSIGNEE as our agent to sign all such papers and to do all such necessary acts on our behalf, to the fullest extent permitted by law;

And we hereby authorize and request the Commissioner of Patents and Trademarks and any other granting authority to issue any Letters Patent resulting from said Invention and application(s) concerning same to said ASSIGNEE.

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We represent and warrant that we have the full power to make this assignment and that the rights, titles, and interests assigned are not encumbered by any grant, license, or right heretofore given.

We declare under penalty of perjury under the laws of the United States of America, and under penalty of the laws of any other jurisdiction before which this document may be presented, that we have signed this document as our own free act and that all of the foregoing is true and correct.

Dated:	<u> </u>	
		Jeffrey T. Koberstein, Inventor
Dated:		
		Sanjoy Samanta, Inventor
Dated:	4/28/2026	QQ
		Chathuranga De Silva, Inventor

ACCEPTANCE BY ASSIGNEE

In connection with an assignment in any jurisdiction in which an acceptance by ASSIGNEE is required. I hereby accept this assignment on behalf of The Trustees of Columbia University in the City of New York. I declare under penalty of perjury under the laws of the United States of America, and under penalty of the laws of any other jurisdiction before which this document may be presented, that (check all that apply):

X	I am an officer of the	above-identified ASSIGN	ŒE,
X	I have signed this docu ASSIGNEE.	ment on behalf of ASSIG	NEE with the full authority of the
	and that all the forego	ing is true and correct.	8 .
Dated:	08/28/20	By: Name:	John Deans

Title:

Jeffrey M. Sears, Ph.D. Associate General Counsel Columbia University Document Description: Oath or declaration filed

PTO/AIA/02 (07-13)

Approved for use through 11/30/2020. OMB 0651-0032 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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SUBSTITUTE STATEMENT IN LIEU OF AN OATH OR DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (35 U.S.C. 115(d) AND 37 CFR 1.64)

Title of Invention	BIODEGRADABLE THERMO-RESPONSIVE POLYMERS AND USES THEREOF				
This stateme	ent is directed to:				
The atta	ached application,				
OR	,				
_	States application or PCT international	application number	/532	$2,405$ filed on _	January 11, 2018
LEGAL NA	ME of inventor to whom this sub	ostitute statement appli	ies:		_
(E.g., Given	Name (first and middle (if any)) and Fa	amily Name or Surname)			
Sanjoy	SAMANTA				
Residence (except for a deceased or legally incapa	acitated inventor):	1		
_{city} SeIr	mabad	State	Count	try IN	
Mailing Addre	ss (except for a deceased or legally incapa	citated inventor):		<u> </u>	
P.S Pa	atashpur, DistPurba, Medini	pur, Pin-721454, WB	3		
_{city} SeIr	mabad	State	Zi	721454	Country N
I believe the in the ap	e above-named inventor or joint invento plication.	or to be the original inventor	r or an	original joint inventor	of a claimed invention
The above-i	dentified application was made or auth	orized to be made by me.			
I hereby acknowledge that any willful false statement made in this statement is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.					
Relationship to the inventor to whom this substitute statement applies:					
Legal Representative (for deceased or legally incapacitated inventor only),					
Assignee,					
Person to whom the inventor is under an obligation to assign,					
P6	erson who otherwise shows a sufficien	t proprietary interest in the r	matter	(petition under 37 CF	R 1.46 is required), or
Jo	oint Inventor.				

[Page 1 of 2]

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 1 minute to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

SUBSTITUTE STATEMENT

Circumstances permitting execution of this su	ibstitute statement:				
Circumstances permitting execution of this substitute statement:					
Inventor is deceased, Inventor is under legal incapacity,					
Inventor cannot be found or reached	d after diligent effort, or				
Inventor has refused to execute the	_	ED 1.63			
		1.03.			
If there are joint inventors, please check the					
An application data sheet under 37 or is currently submitted.	CFR 1.76 (PTO/AIA/14 or equiv	alent) naming the entire	inventive entity has been		
OR					
An application data sheet under 37 Statement Supplemental Sheet (PT information is attached. See 37 CFI	O/AIA/11 or equivalent) naming				
	WARNING:				
Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.					
PERSON EXECUTING THIS SUBSTITUTE S	TATEMENT:	<u> </u>			
Name:					
Signature:	7/				
APPLICANT NAME AND TITLE OF PERSON					
If the applicant is a juristic entity, list the applic	_	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
	mbia University in the C	ity of New York			
Applicant Name: Title of Person Executing		Nroy-MSoore	·- * /*.0:		
This Substitute Statement:	^ &	sociale Generali	Counsel		
The signer, whose title is supplied above, is a Residence of the signer (unless provided in	uthorized to act on behalf of the name application data sheet. P	az want. TO/AIA/14 or equivaler			
The original (united provided in			·· <i>p</i> ·		
City	State	Country			
Mailing Address of the signer (unless provided in an application data sheet, PTO/AIA/14 or equivalent)					
City	State	Zip	Country		
Note: Use an additional PTO/AIA/02 form for each inventor who is deceased, legally incapacitated, cannot be found or reached					
after diligent effort, or has refused to execute the oath or declaration under 37 CFR 1.63.					

[Page 2 of 2]

Privacy Act Statement

The **Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

- The information on this form will be treated confidentially to the extent allowed under the
 Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from
 this system of records may be disclosed to the Department of Justice to determine whether
 disclosure of these records is required by the Freedom of Information Act.
- 2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
- 3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
- 4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
- 5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
- 6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
- 7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
- 8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
- 9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

RECORDED: 08/28/2020