### 504925937 05/22/2018

# PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
DAEYEON LEE	04/11/2017
FRANCESCO ANGILE	12/14/2016
KEVIN VARGO	12/12/2016
DANIEL A. HAMMER	09/27/2017
CHANDRA M. SEHGAL	03/17/2017

### **RECEIVING PARTY DATA**

Name:	THE TRUSTEES OF THE UNIVERSITY OF PENNSYLVANIA
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Internal Address:	SUITE 200
City:	PHILADELPHIA
State/Country:	PENNSYLVANIA
Postal Code:	19104

### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	15320177

### **CORRESPONDENCE DATA**

Fax Number: (610)407-0701

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: 6104070700

KSPINA@RATNERPRESTIA.COM Email: **Correspondent Name:** ALYSSA R.M. PUGH, REG. NO. 75,253

2200 RENAISSANCE BLVD. Address Line 1:

Address Line 2: SUITE 350

Address Line 4: KING OF PRUSSIA, PENNSYLVANIA 19406

ATTORNEY DOCKET NUMBER:	UOP-510US
NAME OF SUBMITTER:	ALYSSA R.M. PUGH, REG. NO. 75,253
SIGNATURE:	/Alyssa RM Pugh/
DATE SIGNED:	05/22/2018

**PATENT REEL: 045874 FRAME: 0170** 504925937

# Total Attachments: 7 source=UOP-510US\_ASSIGNMENT#page1.tif source=UOP-510US\_ASSIGNMENT#page2.tif source=UOP-510US\_ASSIGNMENT#page3.tif source=UOP-510US\_ASSIGNMENT#page4.tif source=UOP-510US\_ASSIGNMENT#page5.tif source=UOP-510US\_ASSIGNMENT#page6.tif source=UOP-510US\_ASSIGNMENT#page7.tif

PATENT REEL: 045874 FRAME: 0171 UOP-510US (Pending International Application No. PCT/US2015/036678) PATENT

## ASSIGNMENT

and

WHEREAS, We Daeyeon LEE, Francesco ANGILE, Kevin VARGO, Daniel A. HAMMER, Chandra M. SEHGAL, residing at 1510 Crest Road, Wynnewood, PA 19096, residing at 2429 Locust Street, Apt. 406, Philadelphia, PA 19103, residing at 1815 John F. Kennedy Blvd., Apt 1114, Philadelphia, PA 19103, residing at 621 Cedar Lane, Villanova, PA 1985 and residing at 612 Wallace Drive, Wayne, PA 19087, hereinafter referred to as the "assignors" are the inventor of certain inventions or improvements for which we have made application for Letters Patent of the United States, identified as Application No. , entitled APPARATUS AND METHODS FOR MAKING RECOMBINANT PROTEIN-STABILIZED MONODISPERSE MICROBUBBLES;

WHEREAS, The Trustees Of The University Of Pennsylvania hereinafter referred to as the assignee, of 3160 Chestnut Street, Suite 200, Philadelphia, Pennsylvania 19104, a university of higher education in Pennsylvania, is desirous of acquiring the entire right, title and interest in and to the said inventions or improvements and in and to the said patent application, and to any patent application(s) corresponding thereto, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in any and all countries:

NOW, THEREFORE, for and in exchange for valuable consideration from the receipt of which is hereby acknowledged and intending to be bound, we, the said assignors, have sold, assigned, transferred and set over, effective as of the earliest date listed below, and by these presents do hereby sell, assign, transfer and set over to said assignee, the entire right, title and interest in and to said inventions or improvements and said patent application and any and all corresponding patent application(s) and continuations, divisions and renewals of and substitutes for said corresponding patent application(s), and in, to and under any and all Letters Patent which may be granted on or as a result thereof in the United States and any and all other countries, and any reissue or reissues or extension or extensions of said Letters Patent, and assign to and authorize said assignee, to file in our names corresponding patent applications for Letters Patent in all countries, the same to be held and enjoyed by said assignee, its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said Letters Patent respectively may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by us had this assignment, sale and transfer not been made.

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AND we hereby covenant that we have full right to convey the entire interest herein assigned, and that we have not executed and will not execute any agreement in conflict herewith, and we further covenant and agree that we will each time request is made and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title to said inventions or improvements, said patent application, said corresponding patent application(s) and said Letters Patent to said assignee, its successors,

assigns, nominees or legal representatives, and we agree to communicate to said assignee, or to its nominee all known facts respecting said inventions or improvements, said patent application, said corresponding patent application(s) and said Letters Patent, to testify in any legal proceedings, to sign all lawful papers, to execute all disclaimers and divisional, continuing, reissue and foreign applications, to make all rightful oaths, and generally to do everything possible to aid said assignee, its successors, assigns, nominees and legal representatives to obtain and enforce for its or their own benefit proper patent protection for said inventions or improvements in any and all countries.

AND we hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any country or countries foreign to the United States whose duty it is to issue patents on any applications as aforesaid, to issue to said assignee, as assignee of the entire right, title and interest, any and all Letters Patent for said inventions or improvements, including any and all Letters Patent of the United States which may be issued and granted on or as a result of any corresponding patent application(s) aforesaid, in accordance with the terms of this assignment.

This Assignment may be executed in counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same instrument. IN WITNESS WHEREOF, we have hereunto set our hand and seal.

(Pending International Appl	ication No. PCT/US2015/	036678)	PATENT
April 11,2017 Date	Daeyeon LEE	MZ TUS.	)
STATE OF Penry luc  COUNTY OF Philade has above named Daeyeon to be the same individual when the	day of April, year of	<i>Z∆₹</i> , before me per e personally known :	sonally came the and known to me
to be the same individual where that execution of the same therein set forth.			
	Notary P	Jessice City of Pi My Con	NWEALTH OF PENNSYLVANIA NOTARIAL SEAL Is Coyle Brennan, Notary Public hiladelphia, Philadelphia County mission Expires Feb. 26, 2021
Date	Francesco ANGILE	(L.S.)	ı
STATE OF	:: SS		
		personally known a signment, and who	and known to me acknowledged to
	NIAtawy Pr	shlio	
	Notary Pi	IOHC	
	₩960 - <b>1 - (\T '</b> \		

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PATENT REEL: 045874 FRAME: 0174 (Pending International Application No. PCT/US2015/036678)

			(L.S.)
Date	Daeyeon LEE		X/
STATE OF			
On thisabove namedto be the same individua me that execution of the therein set forth.	day of, y i who executed the forego	ear of, to me personing assignments own free w	before me personally came the brally known and known to me tent, and who acknowledged to will for the use and purposes
	No	tary Public	
12/14/2016 Date	Francesco ANGILI	E	(L.S.)
STATE OF <u>Pennsylv</u> COUNTY OF <u>Philadi</u>			
o be the same individual	who executed the forego same was of that person's	ing assignm s own free w	pefore me personally came the nally known and known to me ent, and who acknowledged to ill for the use and purposes
	Jacqu	tary Public	Muraglia
	Page - 3 - 0	of <b>5</b>	COMMONWEALTH OF PENNSYLVANIA
427947_1	<b>3</b> · · · ·		NOTARIAL SEAL Jacqueline Miraglia, Notary Public City of Philadelphia, Philadelphia County My Commission Expires Aug. 29, 2019 MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

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**REEL: 045874 FRAME: 0175** 

UOP-510US (Pending International Applic	eation No. PCT/US2015/036678)	PATENT
\2/12/16 Date	Kevin VARGO (L.S.	)
STATE OF <u>PENNSY/VQI</u> COUNTY OF <u>MONTGOME</u>	<u> </u>	
On this / 2 above named	day of December, year of 26 Goefore me per to me personally known as executed the foregoing assignment, and who was of that person's own free will for the use	and known to me acknowledged to
COMMONWEALTH OF PENNSYLVAN Notarial Seal Kathryn O'Connor, Notary Public Lower Gwynedd Twp., Montgomery Cou My Commission Expires Dec. 12, 201 NEMBER, PENNSYLVANIA ASSOCIATION OF NOTA	inty Kollup O Corne	o) _
Date	Daniel A. HAMMER	ı
STATE OF	: SS	
above namedto be the same individual who	, year of, before me personally known a executed the foregoing assignment, and who was of that person's own free will for the use	and known to me acknowledged to
	Notary Public	
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**PATENT** UOP-510US

(Pending International Application No. PCT/US2015/036678)

	(L,S.)
Date	Kevin VARGO
STATE OF	: : SS
COUNTY OF	
above named	day of, year of, before me personally came the to me personally known and known to me
	who executed the foregoing assignment, and who acknowledged to me was of that person's own free will for the use and purposes
	Notary Public
9.27-17	Dunathermus_ (L.S.)
Date	Daniel A. HAMMER
STATE OF PENNSY	<u>Vania:</u>
COUNTY OF Phila	l i i i i i i i i i i i i i i i i i i i
above named <u>Danie</u> to be the same individual w me that execution of the sar	day of Chembykar of 20, before me personally came the A. Hamme to me personally known and known to me who executed the foregoing assignment, and who acknowledged to me was of that person's own free will for the use and purposes
therein set forth.	A
	Hotary Public Muaglie
	Page - 4 - of 5  COMMONWEALTH OF PENNSYLVANIA  NOTARIAL SEAL

Jacqueline Miraglia, Notary Public City of Philadelphia, Philadelphia County My Commission Expires Aug. 29, 2019 MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

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UOP-510US (Pending International Application No. PCT/US2015/036678)

PATENT

2-17-2017 Clushful (L.S.)

Date Chandra M. SEHGAL

STATE OF <u>Pennsylvania</u>: ss county of <u>Philadelphia</u>:

On this 17th day of March, year of 2017; before me personally came the above named Chandra M. Sethand to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth.

COMMONWEALTH OF PENNSYLVANIA

NOTARIAL SEAL BAMANTHA SOYOUNG KOO Notary Public

Surrantha Sajoure Ca-Notary Public

Notary Public
CITY OF PHILADELPHIA, PHILADELPHIA CNTY
My Commission Expires Sep 8, 2019

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**RECORDED: 05/22/2018**