

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5600709

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT	
<b>CONVEYING PARTY DATA</b>		
	<b>Name</b>	<b>Execution Date</b>
	LIANG HUANG	02/06/2017
	YUANXI LIAO	02/02/2017
	PATRICK MCCARTHY	02/01/2017
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	ATRP SOLUTIONS, INC.	
<b>Street Address:</b>	855 WILLIAM PITT WAY	
<b>City:</b>	PITTSBURGH	
<b>State/Country:</b>	PENNSYLVANIA	
<b>Postal Code:</b>	15238	
<b>PROPERTY NUMBERS Total: 1</b>		
<b>Property Type</b>	<b>Number</b>	
<b>Application Number:</b>	16458920	
<b>CORRESPONDENCE DATA</b>		
<b>Fax Number:</b>	(513)698-5149	
<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>		
<b>Email:</b>	EROBBINS@ULMER.COM	
<b>Correspondent Name:</b>	ERIC M. ROBBINS	
<b>Address Line 1:</b>	600 VINE ST.	
<b>Address Line 2:</b>	STE. 2800	
<b>Address Line 4:</b>	CINCINNATI, OHIO 45202	
<b>ATTORNEY DOCKET NUMBER:</b>	21759-230	
<b>NAME OF SUBMITTER:</b>	ERIC M. ROBBINS, REG. NO. 52170	
<b>SIGNATURE:</b>	/Eric M. Robbins/	
<b>DATE SIGNED:</b>	07/02/2019	
<b>Total Attachments: 1</b>		
source=21759-230_Assign#page1.tif		

## ASSIGNMENT OF NON-PROVISIONAL APPLICATION

WHEREAS, the undersigned hereby:

INSERT  
NAME(S) OF  
INVENTOR(S)

(1) Liang Huang  
(3) Patrick McCarthy

(2) Yuanxi Liao  
☐ x box if continued on page 2

(collectively hereinafter "ASSIGNOR") has/have made an invention entitled:

TITLE OF  
INVENTION

Surfactant-Compatible Star Macromolecules

for which an application for Letters Patents:

and (A) ☒ was filed on July 2, 2015 as Application No. PCT/US2015/039066  
(B) ☒ was filed on December 29, 2016 as Application No. US 15/322,967

AND WHEREAS,

INSERT  
NAME(S) AND  
ADDRESS(ES) OF  
ASSIGNEE(S)

ATRP Solutions, Inc.  
855 William Pitt Way  
Pittsburgh, Pennsylvania 15238  
United States of America

(hereinafter "ASSIGNEE"), desires to acquire an interest therein of the above-identified invention;

NOW, THEREFORE, in consideration of good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the said ASSIGNOR, does hereby sell, assign and transfer unto ASSIGNEE, its successors, assigns and legal representatives, the full and exclusive right, title and interest to the said invention in the United States and all foreign countries, as described in the aforesaid application, and to the said application and all applications claiming priority thereto under 35 U.S.C. §119(e) and to all continuations, divisions, and renewals thereof, and all Patents of the United States which may be granted thereon and all reissues and extensions thereof; and all applications for industrial property protection, including, without limitation, all applications for patents, utility models, and designs which may hereafter be filed for said invention in any country or countries foreign to the United States, together with the right to file such applications for all forms of industrial property protection and the right to claim for the same the priority rights derived from said United States application under the Patent Laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed, as may be applicable, and ASSIGNOR hereby authorizes and requests the Commissioner of Patents to issue said Letters Patent to ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives;

AND ASSIGNOR hereby agrees, without further remuneration, to execute any papers requested by ASSIGNEE, its successors, assigns and legal representatives, deemed essential for ASSIGNEE's full protection and title in and to the invention hereby transferred; and additionally, the undersigned further authorize(s) Jones Day, 51 Louisiana Avenue, N.W., Washington, D.C. 20001, to insert hereon any further identification necessary or desirable for recordation of this document.

IN TESTIMONY WHEREOF, we hereunto set our respective signatures on the day and year set forth below.

### INVENTOR SIGNATURES

### DATE SIGNED

### WITNESSES

1) Name: <u>Liang Huang</u>	<u>2/6/2017</u>	<u>Quinn Schauf</u>
2) Name: <u>Yuanxi Liao</u>	<u>2/2/17</u>	<u>Quinn Schauf</u>
3) Name: <u>Patrick McCarthy</u>	<u>2/1/17</u>	<u>Quinn Schauf</u>

**PATENT**