

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5126008

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	SECURITY INTEREST	
<b>CONVEYING PARTY DATA</b>		
<b>Name</b>		<b>Execution Date</b>
PILOT POLYMER TECHNOLOGIES, INC.		09/04/2018
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	U.S. BANK NATIONAL ASSOCIATION, AS ADMINISTRATIVE AGENT	
<b>Street Address:</b>	425 WALNUT STREET, CN-WN-08	
<b>City:</b>	CINCINNATI	
<b>State/Country:</b>	OHIO	
<b>Postal Code:</b>	45202	
<b>PROPERTY NUMBERS Total: 19</b>		
<b>Property Type</b>	<b>Number</b>	
Patent Number:	9856331	
Patent Number:	8815971	
Patent Number:	8822610	
Patent Number:	9012528	
Patent Number:	9546225	
Patent Number:	9518136	
Patent Number:	9783628	
Patent Number:	8604132	
Patent Number:	9587064	
Patent Number:	8173750	
Patent Number:	8569421	
Patent Number:	9399694	
Patent Number:	9382370	
Application Number:	15697179	
Application Number:	15824819	
Application Number:	15174727	
Application Number:	15189763	
Application Number:	15415371	
Application Number:	15322967	

**CORRESPONDENCE DATA****Fax Number:** (214)981-3400

*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:** 214-981-3483**Email:** dclark@sidley.com**Correspondent Name:** DUSAN CLARK, ESQ.**Address Line 1:** SIDLEY AUSTIN LLP**Address Line 2:** 2021 MCKINNEY AVE., SUITE 2000**Address Line 4:** DALLAS, TEXAS 75201

<b>ATTORNEY DOCKET NUMBER:</b>	40106-30460
<b>NAME OF SUBMITTER:</b>	DUSAN CLARK
<b>SIGNATURE:</b>	/Dusan Clark/
<b>DATE SIGNED:</b>	09/05/2018

<b>NAME OF SUBMITTER:</b>	DUSAN CLARK
<b>SIGNATURE:</b>	/Dusan Clark/
<b>DATE SIGNED:</b>	09/05/2018

<b>SIGNATURE:</b>	/Dusan Clark/
<b>DATE SIGNED:</b>	09/05/2018

<b>DATE SIGNED:</b>	09/05/2018
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**Total Attachments: 5**

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CONFIRMATORY GRANT OF SECURITY INTEREST  
IN UNITED STATES PATENTS

THIS CONFIRMATORY GRANT OF SECURITY INTEREST IN UNITED STATES PATENTS (as the same may be amended, restated, supplemented or otherwise modified from time to time, the “Confirmatory Grant”) is made effective as of September 4, 2018 by and from PILOT POLYMER TECHNOLOGIES, INC., a Delaware corporation (“Grantor”), which was formerly known as “ATRP Solutions, Inc.”, to and in favor of U.S. BANK NATIONAL ASSOCIATION, for itself and as Administrative Agent for the Holders of Secured Obligations (as defined in the Security Agreement referenced below) (in such capacities, “Grantee”).

WHEREAS, Pilot Chemical Holdings, Inc., a Delaware corporation, Pilot Chemical Corp., a Delaware corporation, Pilot Chemical of California, a California corporation, Pilot Chemical Company of Ohio, an Ohio corporation, Pilot Laboratories, Inc., a New Jersey corporation and Pilot Industries of Texas, Inc., a Texas corporation (collectively, the “Borrowers” and each individually, a “Borrower”), the Lenders and Grantee have entered into an Amended and Restated Credit Agreement dated as of September [4], 2018 (as may be amended, restated, supplemented or otherwise modified from time to time, the “Credit Agreement”).

WHEREAS, Grantor, the Borrowers and certain other Subsidiaries of the Borrowers have guaranteed the repayment of the Secured Obligations pursuant to a Guaranty dated as of December 31, 2012 (as may be amended, restated, supplemented or otherwise modified from time to time).

WHEREAS, Grantor, the Borrowers and certain other Subsidiaries of the Borrowers have entered into a Security Agreement dated as of December 31, 2012 (as may be amended, restated, supplemented or otherwise modified from time to time, the “Security Agreement”).

WHEREAS, Grantor owns the patents listed on Exhibit A attached hereto (the “Patents”), which Patents are pending or registered with the United States Patent and Trademark Office.

WHEREAS, this Confirmatory Grant has been granted in conjunction with the security interest granted under the Security Agreement to Grantee for the benefit of the Holders of Secured Obligations. The rights and remedies of Grantee with respect to the security interest granted herein are without prejudice to and are in addition to those set forth in the Security Agreement and the other Loan Documents, all terms and provisions of which are incorporated herein by reference. In the event that any provisions of this Confirmatory Grant are deemed to conflict with the Security Agreement, the provisions of the Security Agreement shall govern.

NOW, THEREFORE, in consideration of the mutual covenants and agreements set forth herein and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, it is hereby agreed that:

1) Definitions. All capitalized terms not defined herein shall have the respective meaning given to them in the Credit Agreement.

2) The Security Interest.

(a) This Confirmatory Grant is made to secure the prompt and complete payment and performance of all the Secured Obligations. Upon the termination of the Security Agreement, Grantee shall promptly, upon such satisfaction, execute, acknowledge, and deliver to the Grantor all reasonably requested instruments in writing releasing the security interest in the Patents acquired under the Security Agreement and this Confirmatory Grant.

(b) Grantor hereby grants to Grantee a security interest in (1) all of Grantor's right, title and interest in and to the Patents now owned or from time to time after the date hereof owned or acquired by Grantor, together with (2) all proceeds of such Patents, (3) the goodwill associated with such Patents and (4) all causes of action arising prior to or after the date hereof for infringement of such Patents or unfair competition regarding the same.

3) Counterparts. This Confirmatory Grant may be executed in any number of counterparts and by different parties in separate counterparts, each of which when so executed shall be deemed to be an original and all of which taken together shall constitute one and the same agreement. Signature pages may be detached from multiple separate counterparts and attached to a single counterpart.

4) Governing Law. This Confirmatory Grant and the rights and obligations of the parties hereto shall be governed by, and construed and interpreted in accordance with, the law of the State of New York.

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IN WITNESS WHEREOF, Grantor has executed this Confirmatory Grant effective as of the date first written above.

PILOT POLYMER TECHNOLOGIES, INC.

By: Pamela R. Butcher  
Name: Pamela R. Butcher  
Title: Chair

**CONFIRMATORY GRANT OF SECURITY INTEREST  
IN UNITED STATES PATENTS**

**Exhibit A - SCHEDULE OF PATENTS**

**Patent Applications:**

<b>Title</b>	<b>Record Owner Name</b>	<b>Country</b>	<b>Application Number</b>	<b>Filing Date</b>	<b>Status</b>
DUAL MECHANISM THICKENING AGENTS FOR HYDRAULIC FRACTURING FLUIDS	ATRP Solutions, Inc.	United States	15697179	9/6/2017	Published
CONTROL OVER CONTROLLED RADICAL POLYMERIZATION PROCESSES	ATRP Solutions, Inc.	United States	15824819	11/28/2017	Published
OIL SOLUBLE RHEOLOGY MODIFYING STAR MACROMOLECULES	ATRP Solutions, Inc.	United States	15174727	6/6/2016	Published
OIL SOLUBLE RHEOLOGY MODIFYING STAR MACROMOLECULES	ATRP Solutions, Inc.	United States	15189763	6/22/2016	Published
SALT-TOLERANT STAR MACROMOLECULES	ATRP Solutions, Inc.	United States	15415371	1/25/2017	Published
SURFACTANT-COMPATIBLE STAR MACROMOLECULES	ATRP Solutions, Inc.	United States	15322967	12/29/2016	Published

**Patents:**

<b>Title</b>	<b>Record Owner Name</b>	<b>Country</b>	<b>Application Number</b>	<b>Filing Date</b>	<b>Patent Number</b>	<b>Issue Date</b>	<b>Status</b>
CONTROL OVER REVERSE ADDITION FRAGMENTATION TRANSFER POLYMERIZATION PROCESSES	ATRP Solutions, Inc.	United States	14666946	3/24/2015	9856331	1/2/2018	Granted
CONTROL OVER CONTROLLED RADICAL POLYMERIZATION PROCESSES	ATRP Solutions, Inc.	United States	12653937	12/18/2009	8815971	8/26/2014	Granted
CONTROL OVER CONTROLLED RADICAL POLYMERIZATION PROCESSES	ATRP Solutions, Inc.	United States	12926780	12/8/2010	8822610	9/2/2014	Granted
CONTROL OVER CONTROLLED RADICAL POLYMERIZATION PROCESSES	ATRP Solutions, Inc.	United States	14175571	2/7/2014	9012528	4/21/2015	Granted

CONTROL OVER CONTROLLED RADICAL POLYMERIZATION PROCESSES	ATRP Solutions, Inc.	United States	14459871	8/14/2014	9546225	1/17/2017	Granted
CONTROL OVER REVERSE ADDITION FRAGMENTATION TRANSFER POLYMERIZATION PROCESSES	ATRP Solutions, Inc.	United States	14665777	3/23/2015	9518136	12/13/2016	Granted
DUAL MECHANISM THICKENING AGENTS FOR HYDRAULIC FRACTURING FLUIDS	ATRP Solutions, Inc.	United States	14424852	2/27/2015	9783628	10/10/2017	Granted
RHEOLOGY MODIFYING STAR MACROMOLECULES FOR FRACKING FLUIDS AND HOME CARE	ATRP Solutions, Inc.	United States	13410700	3/2/2012	8604132	12/10/2013	Granted
SALT-TOLERANT STAR MACROMOLECULES	ATRP Solutions, Inc.	United States	14765452	8/3/2015	9587064	3/7/2017	Granted
STAR MACROMOLECULES FOR PERSONAL AND HOME CARE	ATRP Solutions, Inc.	United States	12926143	10/27/2010	8173750	5/8/2012	Granted
STAR MACROMOLECULES FOR PERSONAL AND HOME CARE	ATRP Solutions, Inc.	United States	12799411	4/23/2010	8569421	10/29/2013	Granted
STAR MACROMOLECULES FOR PERSONAL AND HOME CARE	ATRP Solutions, Inc.	United States	14036993	9/25/2013	9399694	7/26/2016	Granted
STAR MACROMOLECULES FOR PERSONAL AND HOME CARE	ATRP Solutions, Inc.	United States	14037031	9/25/2013	9382370	7/5/2016	Granted