

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT7824926

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	SECURITY INTEREST

## CONVEYING PARTY DATA

Name	Execution Date
PILOT CHEMICAL CORP.	09/06/2022
PILOT POLYMER TECHNOLOGIES, INC.	09/06/2022
LIQUID MINERALS GROUP LTD.	09/06/2022

## RECEIVING PARTY DATA

<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

## PROPERTY NUMBERS Total: 36

Property Type	Number
Application Number:	63397058
Application Number:	17603863
Application Number:	17765502
Application Number:	63269117
Application Number:	16146570
Application Number:	17687845
Patent Number:	8426347
Patent Number:	8535449
Patent Number:	9127234
Patent Number:	6395698
Patent Number:	7754770
Patent Number:	8815971
Patent Number:	8569421
Patent Number:	8173750
Patent Number:	8822610
Patent Number:	8604132
Patent Number:	9399694
Patent Number:	9382370

PATENT

Property Type	Number
Patent Number:	9012528
Patent Number:	9783628
Patent Number:	9546225
Patent Number:	9518136
Patent Number:	9856331
Patent Number:	9587064
Patent Number:	10221285
Patent Number:	10899863
Patent Number:	10336848
Patent Number:	10259901
Patent Number:	10654960
Patent Number:	10696798
Patent Number:	11441065
Patent Number:	11370871
Patent Number:	10941230
Patent Number:	11390696
Patent Number:	11286326
Patent Number:	11168182

#### CORRESPONDENCE DATA

##### Fax Number:

*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: 6173417729

Email: katarzyna.gaysunas@morganlewis.com

Correspondent Name: KATARZYNA GAYSUNAS

Address Line 1: 1 FEDERAL ST

Address Line 2: C/O MORGAN, LEWIS & BOCKIUS LLP

Address Line 4: BOSTON, MASSACHUSETTS 02110-1726

NAME OF SUBMITTER: KATARZYNA GAYSUNAS

SIGNATURE: /Katarzyna Gaysunas/

DATE SIGNED: 03/02/2023

#### Total Attachments: 7

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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 6, 2022 by and from PILOT CHEMICAL CORP., PILOT POLYMER TECHNOLOGIES, INC. and LIQUID MINERALS GROUP LTD. (each a “Grantor”), 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 a Second Amended and Restated Credit Agreement dated as of September 6, 2022 (as may be amended, restated, supplemented or otherwise modified from time to time, the “Credit Agreement”).

WHEREAS, each 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, each 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, the Grantors 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 Grantors all reasonably requested instruments in writing releasing the security interest in the Patents acquired under the Security Agreement and this Confirmatory Grant.

(b) Each Grantor hereby grants to Grantee a security interest in (1) all of such 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 such 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. . Delivery of an executed counterpart of a signature page of this Confirmatory Grant by facsimile or electronic (i.e., "pdf" or "tif") format shall be effective as delivery of a manually executed counterpart of this Confirmatory Grant. The words "execution," "signed," "signature," and words of like import herein shall be deemed to include electronic signatures or the keeping of records in electronic form, each of which shall be of the same legal effect, validity or enforceability as a manually executed signature or the use of a paper-based recordkeeping system, as the case may be, to the extent and as provided for in any Applicable Law, including E-SIGN, the New York State Electronic Signatures and Records Act, or any other similar state laws based on UETA.

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

PILOT CHEMICAL CORP.

By: Michael A. Clark

Print Name: Michael A. Clark

Title: Chief Executive Officer

PILOT POLYMER TECHNOLOGIES, INC.

By: Michael A. Clark

Print Name: Michael A. Clark

Title: Chief Executive Officer

LIQUID MINERALS GROUP LTD.

By: Michael A. Clark

Print Name: Michael A. Clark

Title: Chief Executive Officer

Signature Page to  
Confirmatory Grant of Security Interest in United States Patents

**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>
SYNERGISTIC COMBINATION OF POLYSACCHARIDE-BASED SURFACTANTS AND BIO-BASED SURFACTANTS	Pilot Chemical Corp.	United States	63397058	8/11/2022	Pending
LIQUID CONCENTRATED SURFACTANT COMPOSITIONS	Pilot Chemical Corp.	United States	17603863	10/14/2021	Pending
SURFACTANT COMPOSITIONS FOR IMPROVED HYDROCARBON RECOVERY FROM SUBTERRANEAN FORMATIONS	Pilot Chemical Corp.	United States	17765502	3/31/2022	Pending
SULFONATED AND SULFATED POLYSACCHARIDES	Pilot Chemical Corp.	United States	63269117	3/10/2022	Pending
EMULSIONS HAVING OIL PHASE SURFACTANTS AND WATER PHASE ADDITIVE BLENDS	Pilot Chemical Corp.	United States	16146570	9/28/2018	Pending
PARAFFIN INHIBITOR FORMULATIONS FOR OIL AND GAS APPLICATIONS	Pilot Polymer Technologies, Inc.	United States	17687845	3/7/2022	Pending

**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>
PROCESS FOR PREPARING HIGH CONCENTRATIONS OF MAGNESIUM AND BORON COMBINATION MATERIALS	Liquid Minerals Group Ltd.	United States	12626887	11/28/2009	8426347	4/23/2013	Granted
USE OF COKE COMPOSITIONS FOR ON-LINE GAS TURBINE CLEANING	Liquid Minerals Group Ltd.	United States	13529271	6/21/2012	8535449	9/17/2013	Granted

COKE COMPOSITIONS FOR ON-LINE GAS TURBINE CLEANING	Liquid Minerals Group Ltd.	United States	14017617	9/4/2013	9127234	9/8/2015	Granted
HIGH FLASH POINT ADDITIVES FOR TREATING CARBON-BASED FUELS	Pilot Chemical Corp.	United States	09878899	6/11/2001	6395698	5/28/2002	Granted
ANTIMICROBIAL COMPOSITION	Pilot Chemical Corp.	United States	11426825	6/27/2006	7754770	7/13/2010	Granted
CONTROL OVER CONTROLLED RADICAL POLYMERIZATION PROCESSES	Pilot Polymer Technolo gies, Inc.	United States	12653937	12/18/2009	8815971	8/26/2014	Granted
STAR MACROMOLECULES FOR PERSONAL AND HOME CARE	Pilot Polymer Technolo gies, Inc.	United States	12799411	4/23/2010	8569421	10/29/2013	Granted
STAR MACROMOLECULES FOR PERSONAL AND HOME CARE	Pilot Polymer Technolo gies, Inc.	United States	12926143	10/27/2010	8173750	5/8/2012	Granted
CONTROL OVER CONTROLLED RADICAL POLYMERIZATION PROCESSES	Pilot Polymer Technolo gies, Inc.	United States	12926780	12/8/2010	8822610	9/2/2014	Granted
RHEOLOGY MODIFYING STAR MACROMOLECULES FOR FRACKING FLUIDS AND HOME CARE	Pilot Polymer Technolo gies, Inc.	United States	13410700	3/2/2012	8604132	12/10/2013	Granted
STAR MACROMOLECULES FOR PERSONAL AND HOME CARE	Pilot Polymer Technolo gies, Inc.	United States	14036993	9/25/2013	9399694	7/26/2016	Granted
STAR MACROMOLECULES FOR PERSONAL AND HOME CARE	Pilot Polymer Technolo gies, Inc.	United States	14037031	9/25/2013	9382370	7/5/2016	Granted
CONTROL OVER CONTROLLED RADICAL POLYMERIZATION PROCESSES	Pilot Polymer Technolo gies, Inc.	United States	14175571	2/7/2014	9012528	4/21/2015	Granted
DUAL MECHANISM THICKENING AGENTS FOR HYDRAULIC FRACTURING FLUIDS	Pilot Polymer Technolo gies, Inc.	United States	14424852	2/27/2015	9783628	10/10/2017	Granted
CONTROL OVER CONTROLLED	Pilot Polymer	United States	14459871	8/14/2014	9546225	1/17/2017	Granted

RADICAL POLYMERIZATION PROCESSES	Technologies, Inc.						
CONTROL OVER REVERSE ADDITION FRAGMENTATION TRANSFER POLYMERIZATION PROCESSES	Pilot Polymer Technologies, Inc.	United States	14665777	3/23/2015	9518136	12/13/2016	Granted
CONTROL OVER REVERSE ADDITION FRAGMENTATION TRANSFER POLYMERIZATION PROCESSES	Pilot Polymer Technologies, Inc.	United States	14666946	3/24/2015	9856331	1/2/2018	Granted
SALT-TOLERANT STAR MACROMOLECULES	Pilot Polymer Technologies, Inc.	United States	14765452	8/3/2015	9587064	3/7/2017	Granted
OIL SOLUBLE RHEOLOGY MODIFYING STAR MACROMOLECULES	Pilot Polymer Technologies, Inc.	United States	15174727	6/6/2016	10221285	3/5/2019	Granted
OIL SOLUBLE RHEOLOGY MODIFYING STAR MACROMOLECULES	Pilot Polymer Technologies, Inc.	United States	15189763	6/22/2016	10899863	1/26/2021	Granted
SURFACTANT-COMPATIBLE STAR MACROMOLECULES	Pilot Polymer Technologies, Inc.	United States	15322967	12/29/2016	10336848	7/2/2019	Granted
SALT-TOLERANT STAR MACROMOLECULES	Pilot Polymer Technologies, Inc.	United States	15415371	1/25/2017	10259901	4/16/2019	Granted
DUAL-MECHANISM THICKENING AGENTS FOR HYDRAULIC FRACTURING FLUIDS	Pilot Polymer Technologies, Inc.	United States	15697179	9/6/2017	10654960	5/19/2020	Granted
STAR MACROMOLECULES FOR PERSONAL AND HOME CARE	Pilot Polymer Technologies, Inc.	United States	16286267	2/26/2019	10696798	6/30/2020	Granted
COMBINATION OF A SULFONATED SURFACTANT COMPOSITION AND STAR MACROMOLECULES	Pilot Polymer Technologies, Inc.	United States	16338864	4/2/2019	11441065	9/13/2022	Allowed
SALT-TOLERANT STAR MACROMOLECULES	Pilot Polymer Technologies, Inc.	United States	16383387	4/12/2019	11370871	6/28/2022	Granted
SURFACTANT-COMPATIBLE STAR MACROMOLECULES	Pilot Polymer Technologies, Inc.	United States	16458920	7/1/2019	10941230	3/9/2021	Granted



CONTROL OVER CONTROLLED RADICAL POLYMERIZATION PROCESSES	Pilot Polymer Technolo gies, Inc.	United States	16525289	7/29/2019	1139069 6	7/19/2022	Granted
DUAL MECHANISM THICKENING AGENTS FOR HYDRAULIC FRACTURING FLUIDS	Pilot Polymer Technolo gies, Inc.	United States	16875946	5/15/2020	1128632 6	3/29/2022	Granted
STAR MACROMOLECULES FOR PERSONAL AND HOME CARE	Pilot Polymer Technolo gies, Inc.	United States	16914056	6/26/2020	1116818 2	11/9/2021	Granted