

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
NISAR ULLAH	08/09/2021
MUHAMMAD MANSHA	08/09/2021
RECEIVING PARTY DATA	
Name:	KING FAHD UNIVERSITY OF PETROLEUM & MINERALS
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PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	17454705
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NAME OF SUBMITTER:	JEFFREY S. BERGMAN
SIGNATURE:	/Jeffrey S. Bergman/
DATE SIGNED:	11/22/2021
Total Attachments: 2	
source=18733451001_Assignment as filed_KFUPM#page1.tif	
source=18733451001_Assignment as filed_KFUPM#page2.tif	

DECLARATION AND ASSIGNMENT – WORLDWIDE

Whereas, the undersigned individual(s) (referred to herein as the “INVENTOR(S)”) has/have invented:

The attached application to be filed as a United States application or PCT international application, or

United States application or PCT international application number 17/454,705 filed on November 12, 2021; and, entitled: PIPERAZINE-BASED VISCOELASTIC SURFACTANTS FOR HYDRAULIC FRACTURING APPLICATIONS

Regarding that application, each of the INVENTOR(S) declares the following:

- The above-identified application was made or authorized to be made by me.
- I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.
- I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the INVENTOR(S) hereby assign, transfer, and set over to:

KING FAHD UNIVERSITY OF PETROLEUM & MINERALS

having the following address:

Academic Belt Rd.
Dhahran, Saudi Arabia 31261

(referred to herein as “COMPANY”), its successors, and assigns, the entire right, title, and interest, worldwide, in and to the invention described in the patent application identified above (referred to herein as “INVENTION”), together with said patent application, all divisions, continuations, continuations-in-part, reissues, and extensions thereof, and all Letters Patent (domestic and foreign) that may be granted therefor. Such interest represents the entire ownership of said applications and Letters Patent when granted and is to be owned by COMPANY, its successors, and assigns, or their legal representatives, for the full and entire term for which such Letters Patent may be granted or extended, as fully and entirely as the same would have been enjoyed by the INVENTOR(S) if this assignment had not been made.

In addition, the undersigned INVENTOR(S) each hereby agrees:

1. To sign and execute any further documents that may be necessary or desirable, lawful, and proper in connection with the prosecution of all applications for patent(s) on the INVENTION in the United States, including without limitation said application and all divisions, continuations, continuations-in-part, amendments thereof, and all interference proceedings associated therewith, or otherwise necessary or desirable to secure the title thereto to COMPANY;

2. To execute all papers and documents and to perform all lawful acts that may be necessary in connection with claims to priority or otherwise under the International Convention for the Protection of Industrial Property or similar treaties or agreements;
3. To perform all lawful affirmative acts that may be necessary to obtain the grant of valid and enforceable patents to COMPANY.

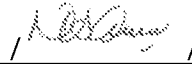
The undersigned INVENTOR(S) each hereby authorizes and requests the Commissioner of Patents and Trademarks in the United States to issue any and all Letters Patent resulting from said application, including without limitation any division, continuation, continuation-in-part, or reissue thereof to COMPANY.

The undersigned INVENTOR(S) each hereby grants to the firm of OSHA BERGMAN WATANABE & BURTON LLP the power to insert on this Assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for the recordation of this document.

IN WITNESS WHEREOF, this Assignment has been executed by each of the undersigned individuals on the date appearing by such individual's signature:

1st Inventor Signature:

August 09, 2021

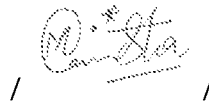


Date

Print or Type Name: Nisar Ullah

2nd Inventor Signature:

August 09, 2021



Date

Print or Type Name: Muhammad Mansha