

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
KAI HE	05/19/2023
LINH DO	05/19/2023
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	CHAMPIONX USA INC.
<b>Street Address:</b>	11177 S. STADIUM DRIVE
<b>City:</b>	SUGAR LAND
<b>State/Country:</b>	TEXAS
<b>Postal Code:</b>	77478
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	17785643
<b>CORRESPONDENCE DATA</b>	
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<b>ATTORNEY DOCKET NUMBER:</b>	20504.1103
<b>NAME OF SUBMITTER:</b>	KEITH C. RAWLINS
<b>SIGNATURE:</b>	/Keith C. Rawlins/
<b>DATE SIGNED:</b>	12/28/2023
<b>Total Attachments: 4</b>	
source=PCTUS2032848 Assignment#page1.tif	
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ASSIGNMENT

We, Kai He and Linh Do (each individually referred to as "I" or "INVENTOR" and collectively as "We" or "INVENTORS") are the inventors of **Surface-Modified Nanoparticle Compositions and Related Applications In Subterranean Hydrocarbon Recovery** (the "Invention"), disclosed in International Patent Application No. PCT/US20/32848, filed on May 14, 2020, also known as ChampionX docket number N11433WOU1; and

WHEREAS ChampionX USA Inc. (hereinafter "COMPANY"), a corporation created and existing under and by virtue of the laws of Delaware and having a mailing address of 11177 S. Stadium Drive, Sugar Land TX 77478, is desirous of acquiring the entire right, title and interest in, to and under any and all Letters Patent of the United States and all other countries throughout the world;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I hereby sell, assign, transfer and set over to COMPANY, all right, title and interest in and to the said Invention, including any right of priority, throughout the world and said application for U.S. Letters Patent, and any and all other applications for said invention, including divisional, continuation, provisional, non-provisional, regular, and reissue applications, and any and all Letters Patent of the United States and foreign countries which may be granted therefor, the same to be held and enjoyed by COMPANY for its own use and benefit, and for the use and benefit of its successors, assigns, or other legal representatives, to the end of the term or terms for which said Letters Patent of the United States or foreign countries are or may be granted or reissued, as fully and entirely as the same would have been held and enjoyed if this assignment and sale had not been made.

And I hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all Letters Patent of the United States on said invention or resulting from said application and from any and all divisions, continuations, and reissues thereof, to COMPANY, as assignee of my entire interest, and hereby covenant that I have the full right to convey the entire interest herein assigned, and that I have not executed and will not execute any agreement in conflict herewith.

And I further covenant and agree that I will, at any time, upon request, execute and deliver any and all papers that may be necessary or desirable to perfect the title of said invention and to such Letters Patent as may be granted therefor, to COMPANY, its successors, assigns, or other legal representatives and that if COMPANY, its successors, assigns or other legal representatives shall desire to file any divisional or continuation applications or to secure a reissue of such Letters Patent, or to file a disclaimer relating thereto, I will upon request, sign all papers, make all rightful oaths and do all lawful acts requisite for the filling of such divisional or continuation application, or such application for reissue and the procuring thereof, and for the filling of such disclaimer, without further compensation but at the expense of said company, its successors, or other legal representatives.

And I do further covenant and agree that I will at any time upon request, communicate to COMPANY, its successors, assigns or other legal representatives, such facts relating to said Invention and Letters Patent or the file history thereof as may be known to me, and testify as to

the same in any interference or other litigation when requested so to do, without further compensation but at the expense of said company, its successors, or other legal representatives.

INVENTOR: Kai He

Kai He  
Signature

5/19/23  
Date

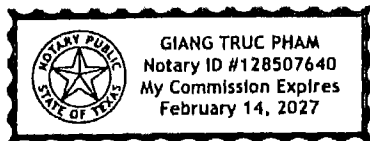
State of Texas

County of Harris

This instrument was acknowledged before me on May 19, 2023 by Kai He.

(Personalized Seal)

Giang T. Pham  
Notary Public's Signature



INVENTOR: Linh Do

Signature

Date

05/19/2023

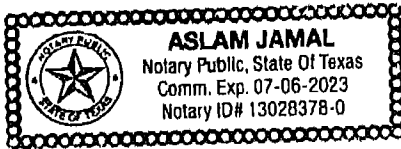
State of Texas

County of \_\_\_\_\_

This instrument was acknowledged before me on 05/19/2023 by Linh Do.

(Personalized Seal)

Notary Public's Signature



COMPANY: ChampionX USA Inc.

  
Signature

Mark Eley  
Printed Name

Sr. VP  
Title

June 6, 2023  
Date