PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
RICHARD M. BUCK	05/24/2018
QING YANG	05/24/2018

RECEIVING PARTY DATA

Name:	CHEVRON PHILLIPS CHEMICAL COMPANY LP
Street Address:	10001 SIX PINES DRIVE
City:	THE WOODLANDS
State/Country:	TEXAS
Postal Code:	77380

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	17460400

CORRESPONDENCE DATA

Fax Number: (832)813-6060

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: 832-813-4100

Email: ipdocketing@cpchem.com

Correspondent Name: CHEVRON PHILLIPS CHEMICAL COMPANY LP

Address Line 1: 10001 SIX PINES DRIVE

Address Line 4: THE WOODLANDS, TEXAS 77380

ATTORNEY DOCKET NUMBER:	211993US04-60293.0136USD2	
NAME OF SUBMITTER:	MONTE R. RHODES	
SIGNATURE:	/Monte R. Rhodes/	
DATE SIGNED:	08/30/2021	

Total Attachments: 2

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PATENT 506843499 REEL: 057326 FRAME: 0515

ASSIGNMENT

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and adequacy of which are hereby acknowledged, the undersigned, do hereby:

SELL, ASSIGN AND TRANSFER to Chevron Phillips Chemical Company LP (the "Assignee"), a corporation of the State of Delaware, having a place of business at 10001 Six Pines Drive, The Woodlands, Texas 77380, the entire right, title and interest for the United States and all foreign countries in and to any and all improvements which are disclosed in the application for United States Letters Patent, which has been executed by the undersigned concurrently herewith and is entitled "Methods for Determining Transition Metal Compound Concentrations in Multicomponent Liquid Systems," with joint inventors Richard M. Buck and Qing Yang, filed in the U.S. Patent and Trademark Office on March 29, 2018, and assigned Serial No. 15/939,446; such application and all divisional, continuing, substitute, renewal, reissue and all other applications for patent which have been or shall be filed in the United States and all foreign countries on any of such improvements; all original and reissued patents which have been or shall be issued in the United States and all foreign countries on such improvements; and specifically including the right to file foreign applications under the provisions of any convention or treaty and claim priority based on such application in the United States;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such improvements to the Assignee;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by the undersigned, and that the full right to convey the same as herein expressed is possessed by the undersigned;

COVENANT, when requested and at the expense of the Assignee, to carry out in good faith the intent and purpose of this assignment, the undersigned will (1) execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all such improvements; (2) execute all rightful oaths, declarations, assignments, powers of attorney and other papers; (3) communicate to the Assignee all facts known to the undersigned relating to such improvements and the history thereof; (4) cooperate with the Assignee in any interference, opposition, dispute, or litigation involving any of the applications or patents for such improvements; and (5) generally do everything possible which the Assignee shall consider desirable for vesting title to such improvements in the Assignee, and for securing, maintaining and enforcing proper patent protection for such improvements;

TO BE BINDING on the heirs, assigns, representatives and successors of the undersigned and extend to the successors, assigns and nominees of the Assignee.

May 24, 2013 (Signature); Name: RICHARD M. BUCK § SS. BEFORE ME, the undersigned authority, on this 2 , 2018, personally appeared day of

RICHARD M. BUCK, known to me to be the person whose name subscribed to the foresching instrument and acknowledged to me that he executed the same of his own free will for the purposes and consideration therein expressed.

Notary of Consular Officer

D. RENEE GAGAN Notary Public - State of Oklahoma Commission Number 10003898 Commission Expires May 11, 2022

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PATENT REEL: 057326 FRAME: 0516 (Signature):

Date Dray 24, 2018

STATE OF Welch

Julahome :

COUNTY OF Washington

BEFORE ME, the undersigned authority, on this 24 day of 2/2, 2018, personally appeared QING YANG, known to me to be the person whose name subscribed to the foregoing intrument and acknowledged to me that he executed the same of his own free will for the purposes and consideration therein expressed.

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[SEAL]

Notary or Consular Officer

D. NENEE GAGAM Notary Public - State of Chiahoma Commission Number 10003898 My Commission Espires, May 31, 2022