

<b>PATENT ASSIGNMENT COVER SHEET</b>
--------------------------------------

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT7575182

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
CARLOS A. CRUZ	10/20/2021
MITCHELL D. REFKVİK	10/21/2021
MAX P. MCDANIEL	10/20/2021
MARK SCOTT	10/21/2021
EVAN MERK	10/21/2021
ROB HART	09/26/2022
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	CHEVRON PHILLIPS CHEMICAL COMPANY LP
<b>Street Address:</b>	10001 SIX PINES DRIVE
<b>City:</b>	THE WOODLANDS
<b>State/Country:</b>	TEXAS
<b>Postal Code:</b>	77380
<b>PROPERTY NUMBERS Total: 2</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	62243228
<b>Application Number:</b>	17942228
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(832)813-6060
<i>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.</i>	
<b>Phone:</b>	832-813-4100
<b>Email:</b>	ipdocketing@cpchem.com
<b>Correspondent Name:</b>	CHEVRON PHILLIPS CHEMICAL COMPANY LP
<b>Address Line 1:</b>	10001 SIX PINES DRIVE
<b>Address Line 4:</b>	THE WOODLANDS, TEXAS 77380
<b>ATTORNEY DOCKET NUMBER:</b>	212179US01-60293.0256USU1
<b>NAME OF SUBMITTER:</b>	MONTE R. RHODES
<b>SIGNATURE:</b>	/Monte R. Rhodes/
<b>DATE SIGNED:</b>	10/05/2022

**Total Attachments: 10**

source=212179US01\_Executed Assignment#page1.tif  
source=212179US01\_Executed Assignment#page2.tif  
source=212179US01\_Executed Assignment#page3.tif  
source=212179US01\_Executed Assignment#page4.tif  
source=212179US01\_Executed Assignment#page5.tif  
source=212179US01\_Executed Assignment#page6.tif  
source=212179US01\_Executed Assignment#page7.tif  
source=212179US01\_Executed Assignment#page8.tif  
source=212179US01\_Executed Assignment#page9.tif  
source=212179US01\_Executed Assignment#page10.tif

**ASSIGNMENT  
AND/OR  
RATIFICATION OF ASSIGNMENT  
OF INTELLECTUAL PROPERTY**

WHEREAS, I/We, the undersigned, hereafter individually and collectively, "**Assignor**," has/have jointly invented and developed certain new and useful methods, devices, and/or systems that are disclosed, taught and/or claimed in one or more of the applications for patent listed below (hereafter, collectively, "**Application**").

Country	Application Number	Filing Date
US	63/243228	September 13, 2021
US	17/942228	September 12, 2022

WHEREAS, **Chevron Phillips Chemical Company LP**, a corporation organized and existing under the laws of the state of Delaware, having a place of business at 10001 Six Pines Dr., The Woodlands, Texas 77380, hereafter "**Assignee**," to the extent not already transferred to **Assignee** by an existing assignment obligation from me/us or by a prior written agreement and/or other legal relationship between **Assignee** and **Assignor**, is desirous of acquiring the entire and exclusive right, title and interest in and to, and possession of: a) the **Application** and all rights thereto; b) the subject matter disclosed, taught and/or claimed in the **Application**; and c) all tangible materials and intangible information concerning the **Application** and its subject matter, including but not limited to, copyrighted materials, know-how, confidential and proprietary information and trade secrets (hereafter, collectively, the "**Intellectual Property**").

NOW, THEREFORE, for one dollar (US\$1.00) and/or other good and valuable consideration, the receipt and sufficiency of which I/We hereby acknowledged, **Assignor** and **Assignee** agree as follows.

1. **Ratification of Prior Assignment.** **Assignor** hereby ratifies and acknowledges his/her/their prior assignment to **Assignee** of the aforesaid **Intellectual Property**, which assignment transferred the entire and exclusive right, title and interest in and to, and possession and use of, the aforesaid **Intellectual Property**, in all countries, regions and political subdivisions throughout the world, including without limitation, as applicable, the right to claim priority thereto or benefit thereof in all future applications for patent; the right to file and prosecute all related applications in the United States, in any foreign country or with any application filing convention or treaty, disclosing and/or claiming the **Intellectual Property**, in whole or in part, including, without limitation, all provisional applications, non-provisional applications, divisional applications, continuation applications, continuation-in-part applications, renewals, reissues, reexaminations, substitutes or extensions thereof; the right to all patents or other related property right that may be issued or granted thereon anywhere in the world; the right to all income, royalties, damages and payments now or hereafter due or payable with respect to any patent or other right described herein; the right to all causes of action (either in law or in equity); the right to sue, counterclaim, and recover for past, present and future infringement of the rights described herein; all as fully and entirely the same as would have been held and enjoyed by **Assignor** if the transfer and assignment described herein had not been made.

2. **Present Assignment.** To the extent **Assignor** has not already assigned to **Assignee** all or any of the aforesaid **Intellectual Property**, **Assignor** does hereby assign, transfer and forever convey, to **Assignee**, its successors and assigns, the entire and exclusive right, title and interest in and to, and possession and use of, the aforesaid **Intellectual Property**, in all countries, regions and political subdivisions throughout the world, including without limitation, as applicable, the right to claim priority thereto or benefit thereof in all future applications for patent; the right to file and prosecute all related applications in the United States, in any foreign country or with any application filing convention or treaty, disclosing and/or claiming the **Intellectual Property**, in whole or in part, including, without limitation, all provisional applications, non-provisional applications, divisional applications, continuation applications, continuation-in-part applications, renewals, reissues, reexaminations, substitutes or extensions thereof; the right to all patents or other related property right that may be issued or granted thereon anywhere in the world; the right to all income, royalties, damages and payments now or hereafter due or payable with respect to any patent or other right transferred herein; the right to all causes of action (either in law or in equity); the right to sue, counterclaim, and recover for past, present and future infringement of the rights transferred herein; all as fully and entirely the same as would have been held and enjoyed by **Assignor** if the transfer and assignment had not been made.

3. **Issuance to Assignee.** **Assignor** hereby authorizes and requests the appropriate governmental official to issue any and all patents, certificates, registrations, grants or related property right assigned hereunder, to **Assignee**, as the owner of the entire and exclusive right, title and interest in and to the same.

4. **Warranty of Title.** **Assignor** hereby represents, warrants and covenants that **Assignor** had the full right to convey the interest herein ratified and/or has the full right to convey the interest herein assigned; that **Assignor** has not executed and will not execute any agreement, instrument or assignment in conflict herewith; and that the rights ratified and/or assigned herein are not subject to any other grant, license or right, or otherwise encumbered.

5. **Further Actions.** **Assignor** hereby covenants and agrees that **Assignor** will at any time upon request make, execute and deliver without further compensation, any and all other instruments in writing, including further applications, papers, affidavits, powers of attorney, assignments, and other documents; and do all lawful acts and things, which, in the opinion of **Assignee**, its successors and assigns, may in any country be required or necessary more effectively to secure to and vest in **Assignee**, its successors and assigns, the property ratified or transferred herein; and that **Assignor** will execute any application for reissue, division, continuation, continuation-in-part, counterpart, renewal, reexamination, correction, substitute or extension of said **Intellectual Property** or any resulting patent or related property right. **Assignor** covenants and agrees that **Assignor** will at any time upon request communicate to the **Assignee**, its successors, assigns or other legal representatives any facts relating to the aforesaid **Application** and **Intellectual Property** known to him/her, and will testify as to the same in any interference, litigation, mediation, arbitration or other proceeding when requested to do so.

6. **Confidentiality.** **Assignor** hereby covenants and agrees to maintain as confidential all non-public aspects and details of the **Intellectual Property** unless and until such time as such aspects or details become publicly known through no fault of **Assignor**. **Assignor** agrees and understands that this obligation of confidentiality continues to exist regardless of whether **Assignor** is employed by **Assignee** or not. **Assignor** agrees and understands that this obligation of confidentiality is supplemental to all other obligations of confidence that **Assignor**

may now or hereafter owe to Assignee.

7. **Assignee as Attorney-in-fact.** To the extent Assignor is unavailable, unable or unwilling to execute and/or deliver any instrument described in paragraph 5, Assignor hereby appoints each officer of Assignee, and specifically appoints Assignee's general counsel whether or not an officer, as his/her/their limited attorney in fact for the sole and limited purpose of executing such instrument.

8. **No Challenge.** Assignor hereby covenants and agrees that Assignor will never challenge or aid the challenge by another of the validity or enforceability of the Intellectual Property ratified or transferred hereunder.

9. **Choice of Law.** Assignor hereby covenants and agrees that the laws of the State of Texas shall control the interpretation and effect of this document and without application of that state's laws concerning conflict of law.

10. **Severability.** Assignor and Assignee hereby agree that this agreement is severable in the event one or more clauses, covenants or obligations set forth in this agreement are found to be invalid or unenforceable by a court of competent jurisdiction. Assignor and Assignee hereby agree that those clauses, covenants and obligations that are not found to be invalid or unenforceable shall be enforced as if the severed clause, covenant or obligation had never existed.

11. **Legal Counsel.** ASSIGNOR UNDERSTANDS AND ACKNOWLEDGES THAT NEITHER IN-HOUSE LEGAL COUNSEL FOR ASSIGNEE NOR OUTSIDE LEGAL COUNSEL REPRESENTING ASSIGNEE CONCERNING THIS AGREEMENT OR THE INTELLECTUAL PROPERTY REFERENCED IN THIS AGREEMENT, REPRESENT THE INTERESTS OF ASSIGNOR, OR ANY OF THEM, CONCERNING THIS AGREEMENT OR THE INTELLECTUAL PROPERTY REFERENCED IN THIS AGREEMENT. ASSIGNOR FURTHER ACKNOWLEDGES AND AGREES THAT HE/SHE/THEY HAVE HAD THE OPPORTUNITY TO CONSULT WITH LEGAL COUNSEL OF HIS/HER/THEIR OWN CHOOSING AND AT HIS/HER/THEIR OWN COST CONCERNING THE EFFECT AND PURPOSE OF THIS AGREEMENT AND THE SCOPE OF THE RIGHTS TRANSFERRED HEREUNDER, AND THAT ASSIGNOR VOLUNTARILY AND WITHOUT RESERVATION OF ANY KIND AGREES TO BE BOUND BY THE TERMS AND CONDITIONS STATED HEREIN.

IN WITNESS WHEREOF, Assignor and Assignee have hereunto set his/her/its hand and seal.

ASSIGNEE  
*Chad E. Walter*

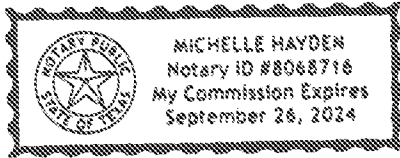
Signature

Chad E. Walter, Assistant General Counsel  
Intellectual Property Department  
Name and Title

10001 Six Pines Drive,  
The Woodlands, Texas 77380

June 1, 2022

Date of Execution



\*\*\* NOTARIZATION IS PREFERRED, BUT NOT REQUIRED \*\*\*

STATE OF TEXAS §  
§  
COUNTY OF MONTGOMERY §

BEFORE ME, the undersigned authority, on this day personally appeared CHAD E. WALTER, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

GIVEN UNDER MY HAND and seal of office this 1st day of June, 2022.

*Michelle Hayden* [NOTARY STAMP]



ASSIGNOR

Mitchell D. Refvik  
Signature

Mitchell D. Refvik  
~~2445 Prim Water Court~~  
~~Kingwood, Texas 77349~~  
2124 Turtle Creek  
BARTLESVILLE, OK 74006

10/21/2021  
Date of Execution

\*\*\* NOTARIZATION IS PREFERRED, BUT NOT REQUIRED \*\*\*

STATE OF Oklahoma §  
COUNTY OF Washington §

BEFORE ME, the undersigned authority, on this day personally appeared MITCHELL D. REFVIK, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

GIVEN UNDER MY HAND and seal of office this 21 day of Oct, 2021.

Jennifer Anne Jackson  
[NOTARY STAMP]  
JENNIFER ANNE JACKSON  
Notary Public - State of Oklahoma  
Commission Number 13003365  
My Commission Expires Apr 10, 2025



ASSIGNOR

Max P. McDaniel  
Signature

Max P. McDaniel  
1601 Melmart Drive  
Bartlesville, Oklahoma 74006

10-20-2021  
Date of Execution


\*\*\* NOTARIZATION IS PREFERRED, BUT NOT REQUIRED \*\*\*

STATE OF Oklahoma §  
COUNTY OF Washington §

BEFORE ME, the undersigned authority, on this day personally appeared MAX P. MCDANIEL, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

GIVEN UNDER MY HAND and seal of office this 20 day of Oct., 2021.

[NOTARY STAMP]

 TERI L. BALDWIN  
Notary Public  
State of Oklahoma  
Commission #07003875 Exp: 04/19/23

ASSIGNOR

Mark W. Scott  
Signature

Mark Scott  
105 Strathmore Avenue  
Fort Thomas, Kentucky 40175

10/21/21  
Date of Execution

\*\*\* NOTARIZATION IS PREFERRED, BUT NOT REQUIRED \*\*\*

STATE OF Ohio §  
COUNTY OF Hamilton §  
§

BEFORE ME, the undersigned authority, on this day personally appeared **MARK SCOTT**, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

GIVEN UNDER MY HAND and seal of office this 21 day of Oct, 2021.

[NOTARY STAMP]

STEPHANIE DOWNS  
Notary Public, State of Ohio  
My Commission Expires 04-18-2022  
*Stephanie Downs*

*Evan Merk*  
ASSIGNOR  
Signature

Evan Merk  
3116 Epworth Avenue  
Cincinnati, Ohio 45211

10/21/21  
Date of Execution

\*\*\* NOTARIZATION IS PREFERRED, BUT NOT REQUIRED \*\*\*

STATE OF Ohio §  
COUNTY OF Hamilton §  
§

BEFORE ME, the undersigned authority, on this day personally appeared EVAN MERK, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

GIVEN UNDER MY HAND and seal of office this 21 day of Oct., 2021.

[NOTARY STAMP]

STEPHANIE DOWNS  
Notary Public, State of Ohio  
My Commission Expires 04-18-2022

*Stephanie Downs*

\*\*\* NOTARIZATION IS PREFERRED, BUT NOT REQUIRED \*\*\*

ASSIGNOR

Rob Hart  
Signature

Rob Hart  
7290 Berwood Drive  
Cincinnati, Ohio 45243

STATE OF \_\_\_\_\_ §  
COUNTY OF \_\_\_\_\_ §

26 September 2022  
Date of Execution

BEFORE ME, the undersigned authority, on this day personally appeared **ROB HART**, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

GIVEN UNDER MY HAND and seal of office this \_\_\_\_ day of \_\_\_\_\_, 202\_\_.

[NOTARY STAMP]