505588064 07/24/2019 PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5634863

04/18/2019

07/02/2019

04/29/2019

05/09/2019

05/16/2019

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
ANTHONY O. BALDRIDGE		04/23/2019
NEAL D. MCDANIEL		04/22/2019
JAMES A. SUTTIL		04/23/2019
SOUMEN KUNDU		04/20/2019

JIANHUA YAO BRUCE B. RANDOLPH

MAZIAR SARDASHTI STEVEN E. LUSK

ROBERT M. WALSTON JR.

RECEIVING PARTY DATA

Name:	PHILLIPS 66 COMPANY
Street Address:	INTELLECTUAL PROPERTY - LEGAL
Internal Address:	P.O. BOX 421959
City:	HOUSTON
State/Country:	TEXAS
Postal Code:	77242-1959

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16364737

CORRESPONDENCE DATA

Fax Number:(832)765-9875Correspondence 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:	832-765-1251			
Email:	RSCLegalpsxip@p66.com			
Correspondent Name:	PHILLIPS 66 COMPANY			
Address Line 1:	INTELLECTUAL PROPERTY - LEGAL			
Address Line 2:	P.O. BOX 421959			
Address Line 4:	HOUSTON, TEXAS 77242-1959			

ATTORNEY DOCKET NUMBER: P66-00257US1

505588064

NAME OF SUBMITTER:	KYLE W. SHERRILL, PH.D
SIGNATURE:	/Kyle Sherrill #62130/
DATE SIGNED:	07/24/2019
Total Attachments: 18	·
source=P66_00257US1_A_Baldridge_	DeclAssign_072419.2#page1.tif
source=P66_00257US1_A_Baldridge_	DeclAssign_072419.2#page2.tif
source=P66_00257US1_NMcDaniel_D	eclAssign_072419.2#page1.tif
source=P66_00257US1_NMcDaniel_D	eclAssign_072419.2#page2.tif
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source=P66_00257US1_R_Walston_D	eclAssign_072419.2#page2.tif

Declaration (37 CFR 1.63) for Utility Patent Application	Docket No.:
and Assignment of Rights, Title and Interest in Invention	P66-00257US1

1 Anthony O. Baldridge (inventor) declare that this declaration is directed to

X	X United States Provisional Patent Application Serial No. 62/648.570 file	d Mərch 27, 2018
	United States Non-Provisional Patent Application submitted herewith	Docket No.:
X	X United States Non-Provisional Patent Application Serial No. 16/364,73	17 filed March 26, 2019
	United States Continuation Patent Application Serial No.	filed
	International (PCT) Patent Application Serial No.	iled
} 	Prior Foreign Application No.:, Country, fi	led
	Olher (specify)	

Direct all correspondence to the address associated with Customer No.: 105261 Title of the Invention

CATALYTIC AC			

The above-identified application was made or authorized to be made by me.

I believe that I am the original and first inventor or an original and first joint inventor of a claimed invention in the application.

I have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment specifically referred to above.

I hereby declare that my residence, mailing address, and citizenship are as stated next to my name.

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WHEREAS, Phillips 66 Company (hereinafter referred to as "ASSIGNEE") having a place of business at: 2331 CityWest Blvd., Houston, Texas 77042 USA, is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;

Now, this indenture witnessed, that for good and valuable consideration, the receipt whereof is hereby acknowledged: I, by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to said invention in the United States and its territorial possessions and in all foreign countries (including the right to claim priority under the terms of the International Convention and other relevant International Treaties and Arrangements from the aforesaid application) and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in all divisional, continuation, substitute, renewal and reissue applications thereof.

I hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my entire right, title and interest in and to the same, for the sole use and benefit of said ASSIGNEE, its successors and assign, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me had this Assignment and sale not been made.

P66-00257US1

Further, I agree that I will communicate to said ASSIGNEE or its representatives any facts known to me respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said ASSIGNEE, make all rightful caths, and, generally do anything possible to aid said ASSIGNEE, its successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.

I declare under penalty of perjury under the laws of the United States of America that the foregoing is true and correct and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment of not more than five (5) years, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Assignor

Inventor: Anthony O. Baldridge Residence: 5618 Nottingham Place, Bartlesville, OK 74006 Signature Difference: Citizenship: US Date: 4/27/19
Notarization Executed this 23^{-1} day of April in the year 2019 At 4125 (City) 0 K (alrewa (State) State of 0 (State)
State of <u>Cikin News</u> County of <u>Cikin News</u> Before me personally appeared: <u>Apply Boldware</u> who acknowledged the foregoing instrument to be a free act and deed and also represented that he or she is authorized to execute the same this <u>22</u> rd day of <u>Apply</u> in the
year 2019 (Notary Public)
[SEAL] CARISSA GINGERICH Notary Public - State of Oklahoma Commission Number 130(02588 My Commission Expires Mar 17, 2021
My Commission Expires: Mawa 17, 2021

Assignce

Phillips 66 Company hereby accepts assignment of the above referenced patent application. Name: Kyle W. Sherrill, Ph.D Mailing Address:

Phillips 66 Company Patent Agent and Attorney-in-Fact Registration No. 62,130

P.O. Box 421959 Houston, Texas 77242-1959 United States of America

I Neal D. McDaniel (inventor) declare that this declaration is directed to:

X	United States Provisional Patent Application Serial	l No. <u>62/648,570</u> filed March 27, 2018
	United States Non-Provisional Patent Application s	
X	United States Non-Provisional Patent Application S	Serial No. <u>16/364,737</u> filed March 26, 2019
	United States Continuation Patent Application Seri	
	International (PCT) Patent Application Serial No.	filed
	Prior Foreign Application No.:	, Country, filed
	Other (specify)	

Direct all correspondence to the address associated with Customer No.: <u>105261</u> Title of the Invention

CATALYTIC ACTIVATION OF ISOPENTANE-ENRICHED MIXTURES

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I declare under penalty of perjury under the laws of the United States of America that the foregoing is true and correct and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment of not more than five (5) years, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Assignor

Inventor: Neal D. McDaniel	Residence: 27251 N. 3979 Dr., Oche	lata, OK 74051
Signature: Marf Down & M. J. O.	Citizenship: US Date:	4-77-19

Notarization

 $\frac{1}{2k}$ in the year $\frac{2}{k}$ Executed this Át. (State) State of - Ob County of Before me personally appeared: who acknowledged the foregoing instrument to be a free act and deed and also represented that he or she is authorized to execute the same this 27 day of in the year 2019

(Notary Public)

VICKI JO BULLEN SE Notary Public, State of Oklahoma Commission # 13003156 My Commission Expires 04-04-2021

My Commission Expires: 4-4-21

Assignee

Phillips 66 Company hereby accepts assignment of the above referenced patent application.

Name: Kyle W. Sherrill, Ph.D. Phillips 66 Company Patent Agent and Attorney-in-Fact Registration No. 62,130

I James A. Suttil (inventor) declare that this declaration is directed to:

X	X United States Provisional Patent Application Serial No. <u>62/648,570</u> filed March	27, 2018
	United States Non-Provisional Patent Application submitted herewith, Docket I	No.:
X	X United States Non-Provisional Patent Application Serial No. <u>16/364,737</u> filed N	Aarch 26, 2019
	United States Continuation Patent Application Serial No filed	
	International (PCT) Patent Application Serial Nofiled	
	Prior Foreign Application No.:, Country, filed	
	Other (specify)	

Direct all correspondence to the address associated with Customer No.: 105261

Title of the Invention

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Assignor

Inventor: James A. Suttil	Residence: 864 County Road 3001, Bar	tlesville, OK 74003
Signature: <u>ASAMM</u>	Citizenship: Australian Date:	4/23/2019
Notarization Executed this 23th day of U	In the year 2019	
	(city) Orla Loura	_(State)
State of <u>Okla houna</u>		
County of Nostrivator		
Before me personally appeared: \bigcirc		
who acknowledged the foregoing instri	ment to be a free act and deed and also	represented that
he or she is authorized to execute the s	ame this 25^{a} day of $(2p \wedge 1)$	in the
year <u>2019</u>	Carissan June (Notary Public)	Jh
[SEAL] CARISSA GINGERICH Notary Public – State of Oklahom Commission Number 13002588 My Commission Expires Mar 17, 20	21	
My Commission Expires: March 17, 2021		

Assignee

Phillips 66 Company hereby accepts assignment of the above referenced patent application.

Name: Kyle W. Sherrill, Ph.D Phillips 66 Company Patent Agent and Attorney-in-Fact Registration No. 62,130

18	Soumen Kundu (inventor) declare that this declaration is directed to:
X	United States Provisional Patent Application Serial No. <u>62/648,570</u> filed March 27, 2018
	United States Non-Provisional Patent Application submitted herewith, Docket No.:
X	United States Non-Provisional Patent Application Serial No. 16/364,737 filed March 26, 2019
	United States Continuation Patent Application Senal Nofied
	International (PCT) Patent Application Serial Nofiledfiled
	Prior Foreign Application No.: Country filed
	Other (specify)

Direct all correspondence to the address associated with Customer No.: <u>105261</u>
Title of the invention
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Declaration (37 CFR 1.63) for Utility Patent Application Docket No.: and Assignment of Rights, Title and Interest in Invention P66-00257US1

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Inventor: Soumen Kundu	Residence: 12305 Silent Creek Dr. Pearland, TX 77584
Signature: Kundu	Citizenship: India Date: 04/20/19
Notarization	O 1
Executed this day of	Appīl in the year 2019
A YEANIANA	(city) <u>16x a S</u> (State)
State of TOXAS	······································
Country of Cons2ns	
Before me personally appeared:	<u>Sourcen Kundy</u>
	nstrument to be a free act and deed and also represented that
	he same this <u>20</u> day of <u>April</u> in the
year 2019	
	- Alfrida Kasin
and the second	(Notary Public)
Notary STATE C My Comm. I	A KASIR / Pusic /* TEXAS Sub. 09: 17-22

My Commission Expires: $g \sim 17 \sim 2022$

Assignee

Phillips 66 Company hereby accepts assignment of the above referenced patent application.

Name: Kyle W. Sherrill, Ph.D Phillips 66 Company Patent Agent and Attorney-in-Fact Registration No. 62,130

Janhua Yao (inventor) declare that this declaration is directed to:

United	States	Frovis	ionai i	Patent.	Applica	ition S	erial No.	-62/648-570	filed	March 27, 2018	

United States Non-Provisional Patent Application submitted herewith, Docket No.

X	United States Non-Provisional Patent Application Serial No.	<u>16/364.737</u>	filled <u>March 26, 20</u>	<u>19</u>
	United States Continuation Patent Application Serial No.	2000 - 2000 - 2000 - 2000 - 2000 	filed	
	International (PCT) Patent Application Serial No.	file	3ď	
*******	Prior Foreign Application No.: Country	y , file	rd	
	Other (specify)			

Direct all correspondence to the address associated with Customer No.: 105261

I WA OF THE HIVENUON	
CATALYTIC ACTIVATION OF ISOPENTANE-ENRICHED MIXTURES	Sector Se
	.cecesceed.

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Assignor

Inventor: Jianhua Yao	Residence: 1532 Whitney Lane, Bartlesville, OK 74006
Signature: , Z	Citizenship: US Date: $\frac{u/i \leq 1}{2 + 2}$
Notarization Executed this 9th day of QQ At 45000000000000000000000000000000000000	$\frac{AJ}{AA}$ in the year $\frac{2017}{AA}$ (State)
State of <u>Alphones</u>	
County of DEcase	
Before me personally appeared:	The Yao
who acknowledged the foregoing instrum	vent to be a free act and deed and also represented that
he or she is authorized to execute the sar	ne this <u>18th</u> day of <u>AAA</u> in the
year_ <u>2019</u>	Was Dobult
TAFAT 1 VICKI JO BULLEN	(Notary Public)
Nofary Public, State of Oklahoms Commission # 1303156 My Commission Expires 04-04-2021	

My Commission Expires: <u>
4-4-21</u>

Assignce

Phillips 66 Company hereby accepts assignment of the above referenced patent application.Name:Kyle W. Sherrill, Ph.DMailing Address:Phillips 66 CompanyP.O. Box 421959Patent Agent and Attorney-in-FactHouston, Texas 77242-1959Registration No. 62,130United States of America

<u>I Bruce B. Randolph (inventor) declare that this declaration is directed to:</u>

X	United States Provisional Patent Application Serial No	. <u>62/648,570 filed March 27, 2018</u>
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[Other (specify)	

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WHEREAS, Phillips 66 Company (hereinafter referred to as "ASSIGNEE") having a place of business at: 2331 CityWest Blvd., Houston, Texas 77042 USA, is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;

Now, this indenture witnessed, that for good and valuable consideration, the receipt whereof is hereby acknowledged: I, by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to said invention in the United States and its territorial possessions and in all foreign countries (including the right to claim priority under the terms of the International Convention and other relevant International Treaties and Arrangements from the aforesaid application) and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and all divisional, continuation, substitute, renewal and reissue applications thereof.

I hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my entire right, title and interest in and to the same, for the sole use and benefit of said ASSIGNEE, its successors and assign, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me had this Assignment and sale not been made.

Further, I agree that I will communicate to said ASSIGNEE or its representatives any facts known to me respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do anything possible to aid said ASSIGNEE, its successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.

I declare under penalty of perjury under the laws of the United States of America that the foregoing is true and correct and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment of not more than five (5) years, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

	Assignor
	Inventor: Bruce B. Randolph Residence: 2700 Roanoke Ridge Rd., Bartlesville, OK 74006
	Signature: <u>Luces & Hand for</u> Citizenship: <u>US</u> Date: <u>Quity 2,2019</u>
	Notarization
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	Executed this and day of Jule in the year 2019 At Gardlesully (city) Ohlahoma (State)
	State of Oulahome
	County of Usage
	Before me personally appeared: KAUCA JS. Kandolph
	who acknowledged the foregoing instrument to be a free act and deed and also represented that
	he or she is authorized to execute the same this 2nd day of July in the
	year 2019
	Martin BRAD, ""
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	(Notary Public)
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My Commission Expires:

Assignee

Phillips 66 Company hereby accepts assignment of the above referenced patent application. Name: Kyle W. Sherrill, Ph.D Mailing Address: P.O. Box 421959 Phillips 66 Company Houston, Texas 77242-1959 Patent Agent and Attorney-in-Fact United States of America Registration No. 62,130

us Maziar

Merd Sardashti (inventor) declare that this declaration is directed to:

X	United States Provisional Patent Application Serial No. 62/648,570 filed March 27, 2018
-	United States Non-Provisional Patent Application submitted herewith, Docket No.:
X	United States Non-Provisional Patent Application Serial No. 16/364,737 filed March 26, 2019
	United States Continuation Patent Application Serial No filed
	International (PCT) Patent Application Serial Nofiled
	Prior Foreign Application No.:, Country, filed
	Other (specify)

Direct all correspondence to the address associated with Customer No. <u>105261</u> Title of the Invention

CATALYTIC ACTIVATION OF ISOPENTANE-ENRICHED MIXTURES

The above-identified application was made or authorized to be made by me.

I believe that I am the original and first inventor or an original and first joint inventor of a claimed invention in the application.

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Declaration (37 CFR 1.63) for Utility Patent Application	Docket No.:
and Assignment of Rights, Title and Interest in Invention	P66-00257US1

Further, I agree that I will communicate to said ASSIGNEE or its representatives any facts known to me respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do anything possible to aid said ASSIGNEE, its successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreian countries.

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Assignor Mazine	
Inventor: Mazi Sardashti	Residence: 1003 Terrace View St. Timnath, CO 80547
Signature: Mon Salash	Citizenship: US Date: 4/29/2019

Notarization

all the state of t	1
Executed this <u>29</u> day of <u>April</u>	in the year <u>2D1 9</u> Olorad 5(State)
AI Fort Collins (City)	<u>Colorado</u> (State)
State of <u>Colorado</u>	
County of <u>Larimer</u>	
Before me personally appeared: <u>Mazia</u>	Sardashfi
who acknowledged the foregoing instrument to be	e a free act and deed and also represented that
he or she is authorized to execute the same this	<u>29</u> day of <u>April</u> in the
year <u>7019</u>	
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	Notary Politicy //

JOSEPHINE GUZMAN [S&AL] NOTARY PUBLIC STATE OF COLORADO NOTARY ID 20114052690 MY COMMISSION EXPIRES 8-23-2019

My Commission Expires: 08-23-20

Assignee

Phillips 66 Company hereby accepts assignment of the above referenced patent application. Name: Kyle W. Sherrill, Ph.D. Mailing Address: Phillips 66 Company P.O. Box 421959 Patent Agent and Attorney-in-Fact Houston, Texas 77242-1959 Registration No. 62,130 United States of America

Declaration (37 CFR 1.63) for Utility Patent Application Docket No.: and Assignment of Rights, Title and Interest in Invention P66-00257US1

I Steven E. Lusk (inventor) declare that this declaration is directed to:

X United States Provisional Patent Application Serial No. 62/648,570 filed March 27, 2018

United States Non-Provisional Patent Application submitted herewith, Docket No : _____

X United States Non-Provisional Patent Application Serial No. 16/364,737 filed March 26, 2019

United States Continuation Patent Application Serial No. ______filed _____

International (PCT) Patent Application Serial No.______filed______

Prior Foreign Application No.:______, Country _____, filed _____

Other (specify)

Direct all correspondence to the address associated with Customer No.: 105261

Title of the Invention

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Assignor

Inventor: Steven E. Lusk	Reside	nce: <u>1775 N. U</u>	Street, Ponca C	ity, OK 74601	
Signature: Stang Cark	Citizen	ship: <u>US</u>	Date:	5/9/18	
Notarization				5/9/19	Sev
Executed this <u>440</u> day of <u>4</u> At <u>Partuall</u>	<u>May</u> (city)	in the s Clarts	vear <u>2019</u> - 1900 -	(State)	
State of Ullansmu				and a second	
County of <u>Oine</u> Before me personally appeared:	Squan	E. Lus	K		
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$\frac{\text{My Commission Expires:}}{\mu + o - 2o 2}$					
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Assignce

Phillips 66 Company hereby accepts assignment of the above referenced patent application.Name:Kyle W. Sherrill, Ph.DMailing Address:Phillips 66 CompanyP.O. Box 421959Patent Agent and Attorney-in-FactHouston, Texas 77242-1959Registration No. 62,130United States of America

Robert M. Walston, Jr. (inventor) declare that this declaration is directed to:

X	United States Provisional Patent Application Serial No. 6	<u>2/648,570</u> filed <u>March 27, 2018</u>
	United States Non-Provisional Patent Application submitt	ed herewith, Docket No.:
X	United States Non-Provisional Patent Application Serial I	No. <u>16/364,737</u> filed <u>March 26, 2019</u>
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Assignor

· · · · · · · · · · · · · · · · · · ·				
Inventor: Robert M. Walston, Jpg	N Resid	lence: 14455 N 30th Ea	ast Ave., Skiatook,	OK 74070
Signature: Lot Michel	A-> Citiz	enship: <u>US</u>	Date: 5-14	1750
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Notarization				
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Executed this 1 & day of		in the year		
Executed this <u>I le</u> day of <u>AI Barklewille</u>	(ċiby)	04 ohour	(Stat	e)
State of				
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Before me personally appeared:	Zahand	M. Walshing d	hun	
who acknowledged the foregoing				wanted that
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My Commission Expires Feb 26, 2022				
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3 X 23 1 2 3 1 2				
My Commission Expires:				
02-24-22				

Assignee

Phillips 66 Company hereby accepts assignment of the above referenced patent application.

Name: Kyle W. Sherrill, Ph.D Phillips 66 Company Patent Agent and Attorney-in-Fact Registration No. 62,130