

## PATENT ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT														
NATURE OF CONVEYANCE:	ASSIGNMENT														
CONVEYING PARTY DATA															
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Stuart N. Milligan</td> <td>04/02/2012</td> </tr> <tr> <td>Ray L. Johnston</td> <td>04/02/2012</td> </tr> <tr> <td>Timothy L. Burden</td> <td>04/02/2012</td> </tr> <tr> <td>Wayne R. Dreher</td> <td>04/03/2012</td> </tr> <tr> <td>Kenneth W. Smith</td> <td>04/02/2012</td> </tr> <tr> <td>William F. Harris</td> <td>04/03/2012</td> </tr> </tbody> </table>		Name	Execution Date	Stuart N. Milligan	04/02/2012	Ray L. Johnston	04/02/2012	Timothy L. Burden	04/02/2012	Wayne R. Dreher	04/03/2012	Kenneth W. Smith	04/02/2012	William F. Harris	04/03/2012
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RECEIVING PARTY DATA															
<table border="1"> <tr> <td>Name:</td> <td>ConocoPhillips Company</td> </tr> <tr> <td>Street Address:</td> <td>600 N. Dairy Ashford</td> </tr> <tr> <td>Internal Address:</td> <td>ML 1065</td> </tr> <tr> <td>City:</td> <td>Houston</td> </tr> <tr> <td>State/Country:</td> <td>TEXAS</td> </tr> <tr> <td>Postal Code:</td> <td>77079</td> </tr> </table>		Name:	ConocoPhillips Company	Street Address:	600 N. Dairy Ashford	Internal Address:	ML 1065	City:	Houston	State/Country:	TEXAS	Postal Code:	77079		
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Street Address:	600 N. Dairy Ashford														
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PROPERTY NUMBERS Total: 1															
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13208139</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13208139										
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Application Number:	13208139														
CORRESPONDENCE DATA															
Fax Number:	(281)293-2127														
Phone:	281/293-5523														
Email:	Legal-IP@conocophillips.com														
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>															
Correspondent Name:	ConocoPhillips Company IP Services Group														
Address Line 1:	600 N. Dairy Ashford														
Address Line 2:	Bldg. ML-1065														
Address Line 4:	Houston, TEXAS 77079														

CH \$40.00 13208139

ATTORNEY DOCKET NUMBER:	34240CONT4
NAME OF SUBMITTER:	Richard Y. Yuen
<b>Total Attachments: 7</b> source=34249US_Cont4_Assignment_040312#page1.tif source=34249US_Cont4_Assignment_040312#page2.tif source=34249US_Cont4_Assignment_040312#page3.tif source=34249US_Cont4_Assignment_040312#page4.tif source=34249US_Cont4_Assignment_040312#page5.tif source=34249US_Cont4_Assignment_040312#page6.tif source=34249US_Cont4_Assignment_040312#page7.tif	

**Assignment of Rights, Title and Interest in Invention****Docket No.:****34249US.Cont4**

As the below named inventor(s), I/we declare that this is an Assignment of the rights, title and interest in the following invention:

- ☒ *Rights, title and interest in the invention including United States applications and patents*  
*United States Provisional Patent Application Serial No. \_\_\_/\_\_\_/\_\_\_ filed \_\_\_/\_\_\_/\_\_\_*  
☒ *United States Utility Patent Application Serial No. 11/615,539 filed December 22, 2006*  
☒ *United States Continuation Patent Application Serial No. 13/208,139 filed August 11, 2011*  
*United States Patent No(s). \_\_\_\_\_*  
☒ *Foreign rights, title and interest in the invention including international applications and patents*  
*International (PCT) Patent Application Serial No. \_\_\_\_\_ filed \_\_\_\_\_*  
*Other (specify) \_\_\_\_\_*

**Title of the Invention****DRAG REDUCTION OF ASPHALTENIC CRUDE OILS**

Whereas, I/we, the below-identified Inventors, have invented certain new and useful improvements in the Invention identified above and described in the above-identified patent application(s) and/or patent(s) (hereinafter referred to as "Invention");

I/we desire to assign our above-identified rights, title and interest in the Invention to the below-identified Assignee;

Now, this indenture witnesseth, that for good and valuable consideration, the receipt whereof is hereby acknowledged;

I/we hereby assign, sell and transfer our above-identified rights, title and interest in said Invention, said application(s) as identified above, including any divisions, continuations, and continuations-in-part thereof, and any and all Letters Patent of the United States, and countries foreign thereto, which may be granted or have granted for said Invention, and in and to any and all reissues and reexaminations thereof, and in and to any and all priority rights, Convention rights, and other benefits accruing or to accrue to us with respect to the filing of applications for patents or securing of patents in the United States and countries foreign thereto, unto said Assignee;

I/we hereby authorize and request the Director of the United States Patent and Trademark Office to issue any United States Letters Patent which may issue for said Invention to said Assignee, as assignee of the whole right title and interest thereto;

I/we agree to sign and execute all necessary and lawful documents, including applications for foreign patents, for filing divisions, continuations and continuations-in-part of said application for patent, and/or, for obtaining any reissue or reissues of any Letters Patent which may be granted for my aforesaid Invention, as the Assignee or its Designee(s) may from time to time require and prepare at its own expense.

**PATENT****REEL: 027981 FRAME: 0621**

<b>Assignment of Rights, Title and Interest in Invention</b>	<b>Docket No.:</b> <b>34249US.Cont4</b>
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I/we 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, 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.

**Assignors**

<b>First Inventor:</b> <u>Stuart N. Milligan</u> <b>Signature:</b> <u><i>Stuart N. Milligan</i></u>	<b>Residence:</b> <u>78 Overcrest Road, Ponca City, OK 74604</u> <b>Citizenship:</b> <u>US</u> <b>Date:</b> <u>04/02/12</u>
<b>Second Inventor:</b> <u>Ray L. Johnston</u> <b>Signature:</b> <u><i>Ray L. Johnston</i></u>	<b>Residence:</b> <u>800 Michael Lane, Ponca City, OK 74604</u> <b>Citizenship:</b> <u>US</u> <b>Date:</b> <u>04/02/12</u>
<b>Third Inventor:</b> <u>Timothy L. Burden</u> <b>Signature:</b> <u><i>Timothy L. Burden</i></u>	<b>Residence:</b> <u>2400 Chapel Hill Road, Ponca City, OK 74604</u> <b>Citizenship:</b> <u>US</u> <b>Date:</b> <u>4/2/12</u>
<b>Fourth Inventor:</b> <u>Wayne R. Dreher</u> <b>Signature:</b> _____	<b>Residence:</b> <u>4802 Wayne Ct., College Station, TX 77845</u> <b>Citizenship:</b> <u>US</u> <b>Date:</b> _____
<b>Fifth Inventor:</b> <u>Kenneth W. Smith</u> <b>Signature:</b> <u><i>Kenneth W. Smith</i></u>	<b>Residence:</b> <u>302 Main Street, Tonkawa, OK 74653</u> <b>Citizenship:</b> <u>US</u> <b>Date:</b> <u>4/2/12</u>
<b>Sixth Inventor:</b> <u>William F. Harris</u> <b>Signature:</b> _____	<b>Residence:</b> <u>3501 Fairway Forest Drive, Palm Harbor, FL 34685</u> <b>Citizenship:</b> <u>US</u> <b>Date:</b> _____

**Assignee**

<b>Name:</b> <u>ConocoPhillips Company</u> _____	<b>Mailing Address:</b> <u>600 North Dairy Ashford</u> <u>Houston, Texas 77079-1175</u> <u>United States of America</u>
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Assignment of Rights, Title and Interest in Invention

Docket No.:  
34249US.Cont4

Notarization

Executed this 2<sup>nd</sup> day of April in the year 2012  
At Perca City (city) Oklahoma (State)

State of Oklahoma  
County of Kay

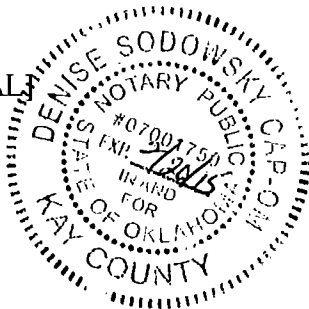
Before me personally appeared

Stuart N. Milligan  
Kay L. Johnston  
Timothy L. Johnston  
Kenneth W. Smith

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 2<sup>nd</sup> day of April in the year 2012

Denise Sadowsky CAP-OM  
(Notary Public)

[SEAL]



My Commission Expires:

2/20/2015

## Assignment of Rights, Title and Interest in Invention

Docket No.:

34249US.Cont4

I/we 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, 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.

## Assignors

First Inventor: <u>Stuart N. Milligan</u>	Residence: <u>78 Overcrest Road, Ponca City, OK 74604</u>
Signature: _____	Citizenship: <u>US</u> Date: _____
Second Inventor: <u>Ray L. Johnston</u>	Residence: <u>800 Michael Lane, Ponca City, OK 74604</u>
Signature: _____	Citizenship: <u>US</u> Date: _____
Third Inventor: <u>Timothy L. Burden</u>	Residence: <u>2400 Chapel Hill Road, Ponca City, OK 74604</u>
Signature: _____	Citizenship: <u>US</u> Date: _____
Fourth Inventor: <u>Wayne R. Dreher</u>	Residence: <u>4802 Wayne Ct., College Station, TX 77845</u>
Signature: <u>WD</u>	Citizenship: <u>US</u> Date: <u>4/3/12</u>
Fifth Inventor: <u>Kenneth W. Smith</u>	Residence: <u>302 Main Street, Tonkawa, OK 74653</u>
Signature: _____	Citizenship: <u>US</u> Date: _____
Sixth Inventor: <u>William F. Harris</u>	Residence: <u>3501 Fairway Forest Drive, Palm Harbor, FL 34685</u>
Signature: _____	Citizenship: <u>US</u> Date: _____

## Assignee

Name: ConocoPhillips Company

Mailing Address: 600 North Dairy Ashford  
Houston, Texas 77079-1175  
United States of America

PATENT

REEL: 027981 FRAME: 0624

## Notarization

Executed this 3<sup>rd</sup> day of April in the year 2012  
At Bryan (city) Texas (State)

State of Texas

County of BRAZOS

Before me personally appeared

Wayne R. Drener

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 3<sup>rd</sup> day of April in the year 2012

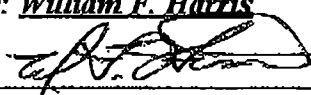
Julia A. Odeski  
(Notary Public)

[SEAL]



My Commission Expires:

8/22/2012

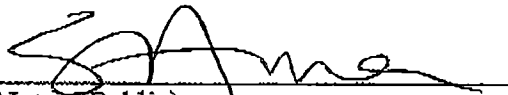
Assignment of Rights, Title and Interest in Invention	Docket No.: 34249US.Cont4
<p>I/we declare under penalty of perjury under the laws of the United States of America that the foregoing is true and correct and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, 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.</p>	
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<b>Assignee</b>	
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At Palm Harbor (city) Florida (State)  
State of FL  
County of Pinellas  
Before me personally appeared  
William Franklin Harris Jr.

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authorized to execute the same this 3<sup>rd</sup> day of April in the year 2012

  
(Notary Public)



My Commission Expires:  
1/8/16