PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT3154231

| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date | |
|------------------|----------------|--|
| YU SHI | 11/17/2014 | |
| GARRY C. GUNTER | 11/21/2014 | |
| BRADLEY M TAYLOR | 11/17/2014 | |

RECEIVING PARTY DATA

| Name: | PHILLIPS 66 COMPANY | |
|---|---------------------|--|
| Street Address: INTELLECTUAL PROPERTY - LEGAL | | |
| Internal Address: P. O. BOX 4428 | | |
| City: | HOUSTON | |
| State/Country: | TEXAS | |
| Postal Code: | 77210 | |

PROPERTY NUMBERS Total: 1

| Property Type | Number | |
|---------------------|----------|--|
| Application Number: | 14551360 | |

CORRESPONDENCE DATA

Fax Number: (832)765-0109

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: 832-765-1251

Email: rsclegalpsxip@p66.com **Correspondent Name:** PHILLIPS 66 COMPANY

INTELLECTUAL PROPERTY - LEGAL Address Line 1:

Address Line 2: P. O. BOX 4428

Address Line 4: HOUSTON, TEXAS 77210

| ATTORNEY DOCKET NUMBER: | 42149US2 |
|-------------------------|--|
| NAME OF SUBMITTER: | KYLE W. SHERRILL |
| SIGNATURE: | /Kyle W. Sherrill, Ph.D/ |
| DATE SIGNED: | 12/18/2014 |
| | This document serves as an Oath/Declaration (37 CFR 1.63). |

Total Attachments: 6

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PATENT REEL: 034548 FRAME: 0421 503107624

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PATENT REEL: 034548 FRAME: 0422

Docket No.: 42149US2

| . 1 3 | ru Sni (inventor) declare that this declaration is directed to: |
|-------|--|
| X | United States Provisional Patent Application Serial No. 61/914,614 filed 12/11/2013 |
| | United States Non-Provisional Patent Application submitted herewith, Docket No.: 42149US2 |
| Х | United States Utility Patent Application Serial Nofiled |
| | International (PCT) Patent Application submitted herewith, Docket No.: |
| Х | International (PCT) Patent Application Serial No. ***** filed ****** |
| | Prior Foreign Application No.:, Country, filed |
| | Other (specify) |
| | In the control of the |

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

Title of the Invention

PROCESSES FOR MAKING HOMOGENEOUS CHARGE COMPRESSION IGNITION ENGINE FUEL BLENDS

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.

I acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information that became available between the filing date of the prior application date and any subsequent application.

I hereby state that I have reviewed and understand the contents of the above-identified application, including the claims of said application. I have reviewed any claim to priority, and I have identified above any prior application number with day, month and year of filing, including any PCT international application designating at least one country other than the United States of America.

WHEREAS, Phillips 66 Company (hereinafter referred to as "ASSIGNEE") having a place of business at: 3010 Briarpark Drive, 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 any and all foreign countries and in and to any 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

Docket No.: 42149US2

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: Yu Shi | Residence: |
| Assigner Inventor: Yu Shi Signature: | Citizenship: <u>China</u> Date: <u>11/17/2014</u> |
| 4 | |
| Notarization | |
| Executed this day of | November in the year port |
| At Partiesille | (city)(State) |
| State of CVNONONO | |
| County of 12 Yearship 200 | |
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| 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 day of in the |
| year 2014 | |
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| | Caro Morgan |
| SOTAR CRIS MO | ORGAN (Notary Public) |
| [SEAL] (SEAL) Notary Public State of Commission | to act on the |
| My Commission ax | 9 2007-884 Giros 2/16/2016 |
| The second secon | and the transfer property |
| | |
| My Commission Expires: | |
| 2/10/2011 | |
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| Assignee | |
| | pts assignment of the above referenced patent application. |
| Name: Phillips 66 Company | Mailing Address: |
| Kyle W. Sherrill, Ph.D | |
| Patent Agent and Attorney-in-Fact | P.O. Box 4428 |
| Registration No. 62,130 | Houston, Texas 77210 |
| Phillips 66 Company | United States of America |

Docket No.: 42149US2

| 1 (| garry C. Gunter (inventor) declare that this declaration is directed to: |
|-----|---|
| Х | United States Provisional Patent Application Serial No. 61/914,614 filed 12/11/2013 |
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| | Other (specify) |
| | |

Direct all correspondence to the address associated with Customer No.: 105261
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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 any and all foreign countries and in and to any and all divisional, continuation, substitute, renewal and reissue applications thereof.

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Page 1 of 2

Docket No.: 42149US2

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| Assignor | |
|--|--|
| Inventor: Garry C. Gunter | Residence: <u>100 Tortle Crak, Bartusolle, O/C 1</u> 4008 |
| Signature: <u>Jamy Wetz</u> | Citizenship: USA Date: 11/21/2014 |
| Notarization | |
| Executed this 21 35 day of 1/10 | Clarry L. in the year 2014 city) <u>OKlasarra s</u> (State) |
| At - SAATALIA MA | city) <u>(State)</u> (State) |
| State of AKLALYSSE | |
| County of 41/2 ANT SCHOOL | |
| Before me personally appeared: | Jany C. Sunto |
| who acknowledged the foregoing instric | ment to be a free act and deed and also represented that |
| | ame this <u>I/F</u> day of <u>I/O(12/27/101</u> in the |
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| pared the Armer Constitue (Decolleration of the Constitue | - UU GO Seus |
| VICKI JO SEARS [S A Nijtary Public, State of Oklahoma Commission # 13003156 My Commission Expires April 04, 2017 | (Notary Públic) |
| My Commission Expires: | |
| Assignce | |
| | signment of the above referenced patent application. |
| Name: Phillips 66 Company | Mailing Address: |
| Kyle W. Sherrill, Ph.D | Minus and Burse |
| Patent Agent and Attorney-in-Fact | P.O. Box 4428 |
| Registration No. 62,130 | Houston, Texas 77210 |
| Phillips 66 Company | United States of America |

Docket No.: 42149US2

| 1 1 | Bradley M I aylor (inventor) declare that this declaration is directed to |
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| | Other (specify) |
| | |
| | Direct all correspondence to the address appointed with Customer No. 105964 |

Direct all correspondence to the address associated with Customer No 105261

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| Assignor | 2.13 | 1 18 | ۇ ۋالىنى | 8. | W. |
|--|--|---------------------|---|--|--------------|
| Inventor: Bradley M. Taylor | Residence: | nited | 310455 | 8 K | Honerica |
| Signature: \(\sum_{\text{seekeq}} \) | Residence: <u>V</u> Citizenship: <u>\</u> | <u> 842</u> | Date: _ | <u>ii/i</u> : | 7/2014 |
| | | | | \$ | |
| Notarization | | | á | | |
| Executed this 174 day of 13M | <u>romboc</u> in | the year | 2014 <u> </u> | | |
| At Proceeding | (city) | homa | | _(Sta | te) |
| State of Civilatoorna | | | *************************************** | | 75 |
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| Before me personally appédred: | Throallant III | James James | 5 (° | | |
| who acknowledged the foregoing instru | iment to be a'free a | ict and de | ed and also | repr | esented that |
| he or she is authorized to execute the sa | ame this 😘 | day of | Alexager | in serie | in the |
| year_Qor4_ | | , , , , , , , , | ************************************** | ************************************** | : |
| [SEAL] CHS MORGAN Notice Problem in and for the State of Observance S | | COcyc ry Public) | 5. 43 | | |
| My Commission Expires: | | | | | |
| Assignee Phillips 66 Company hereby accepts as | signment of the abo | ove refere | meed paten | t appl | ication. |
| Name: Phillips 66 Company Kyle W. Sherrill, Ph.D | Maili | ing Addre | SS. | an was | |
| Patent Agent and Attorney-in-Fact | P.O. | Box 4428 | | | |
| Registration No. 62,130 | Hous | ton, Texa | s 77210 | | |
| Phillips 66 Company | Unite | d States o | of America | | |

Page 2 of 2

RECORDED: 12/18/2014