

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT3738746

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
DR. ROBERT M. ZUBRIN	02/03/2016
DR. BORIS NIZAMOV	02/03/2016
DR. THOMAS L. HENSHAW	02/08/2016
DR. ADAM M. KORTAN	02/10/2016
MR. JAMES SIEBARTH	02/03/2016
MR. COLIN APKE	02/11/2016
MR. MARK BERGGREN	02/03/2016
RECEIVING PARTY DATA	
Name:	PIONEER ENERGY, INC.
Street Address:	11111 WEST 8TH AVENUE, UNIT B
City:	LAKEWOOD
State/Country:	COLORADO
Postal Code:	80215
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15043558
CORRESPONDENCE DATA	
Fax Number:	(866)755-5714
<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>	
Phone:	14086204272
Email:	shirley@apvusa.com
Correspondent Name:	AMERICAN PATENT AGENCY PC
Address Line 1:	845 THIRD AVENUE, 6TH FLOOR
Address Line 4:	NEW YORK, NEW YORK 10022
ATTORNEY DOCKET NUMBER:	PE-1003
NAME OF SUBMITTER:	XIAOMENG SHI
SIGNATURE:	/Xiaomeng Shi/
DATE SIGNED:	02/14/2016

Total Attachments: 7

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ASSIGNMENT OF PATENT APPLICATIONS

WHEREAS, we, **ROBERT M. ZUBRIN**, a citizen of the United States, residing at 834 Braun Ct., Golden, CO 80401, **BORIS NIZAMOV**, a citizen of the United States, residing at 9285 Windsor Way, Highlands Ranch, CO 80126, **THOMAS L. HENSHAW**, a citizen of the United States, residing at 17085 Snowwood Dr., Monument, CO 80132, **ADAM M. KORTAN**, a citizen of the United States, residing at 13872 W. 68th Way, Arvada, CO 80004, **JAMES SIEBARTH**, a citizen of the United States, residing at 881 S. Foothill Dr., Lakewood, CO 80228, **COLIN APKE**, a citizen of the United States, residing at 795 Canyon Drive, Castle Rock, CO 80104, and **MARK BERGGREN**, a citizen of the United States, having a mailing address at P.O. Box 1570, Golden, CO 80402, have invented certain inventions and improvements disclosed in the provisional and non-provisional applications for utility patent as listed in Exhibit A, appended hereto and incorporated by reference herein;

WHEREAS, **PIONEER ENERGY, INC.**, a corporation of the State of Colorado having a principal place of business at 11111 West 8th Avenue, Unit B, Lakewood, CO 80215, is desirous of acquiring an interest in the same;

NOW, THEREFORE, for and in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which we hereby acknowledge, we, **ROBERT M. ZUBRIN, BORIS NIZAMOV, THOMAS L. HENSHAW, ADAM M. KORTAN, JAMES SIEBARTH, COLIN APKE, and MARK BERGGREN**, by these presents do sell, assign and transfer unto **PIONEER ENERGY, INC.**, the full, exclusive and entire right, title, and interest in and to said applications, in and to any non-provisional(s), divisions, continuations, and reissues thereof, and in and to all inventions and improvements disclosed and described in said applications, preparatory to obtaining Patents of the United States therefor; and we hereby request the Commissioner of Patents and Trademarks to assign any and

all Patents of the United States resulting from said applications, or from a non-provisional(s), division, continuation, or reissue thereof, to **PIONEER ENERGY, INC.**, as the assignee, for its interest and for the sole use and benefit of **PIONEER ENERGY, INC.**, and its assigns and legal representatives;

For the same consideration, we, by these presents do sell, assign, and transfer to **PIONEER ENERGY, INC.**, the full, exclusive, and entire right, title and interest in and to any foreign application or applications corresponding to said applications, in whole or in part, in countries other than the United States, in and to any Patents and similar protective rights granted on said foreign applications, and in and to the right to claim any applicable priority rights arising from or required for said foreign applications under the terms of any applicable conventions, treaties, statutes, or regulations; said foreign applications to be filed and issued in the name of **PIONEER ENERGY, INC.**, or its designee insofar as permitted by applicable law.

AND, for the same consideration, we agree to sign all lawful papers, execute all division, continuing, reissue and other applications, make all assignments and rightful oaths, and generally do everything possible to aid **PIONEER ENERGY, INC.**, its successors, assigns, and nominees, to obtain and enforce proper protection for all said inventions and improvements in all countries throughout the world.




ROBERT M. ZUBRIN

Feb 3, 2016

STATE OF COLORADO

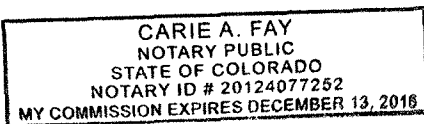
Before me, a Notary Public in and for the State of Colorado, on this 3rd day of February 2016, personally appeared **ROBERT M. ZUBRIN**, who being duly sworn, signed and acknowledged the foregoing Assignment as his free act and deed.



NOTARY PUBLIC

(SEAL)

My Commission Expires:



B Nizamov 2/3/2016

BORIS NIZAMOV

STATE OF COLORADO

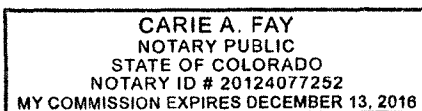
Before me, a Notary Public in and for the State of Colorado, on this 3rd day of February 2016, personally appeared **BORIS NIZAMOV**, who being duly sworn, signed and acknowledged the foregoing Assignment as his free act and deed.



NOTARY PUBLIC

(SEAL)

My Commission Expires: *December 13, 2016*



Thomas L. Henshaw 2/8/2016
THOMAS L. HENSHAW

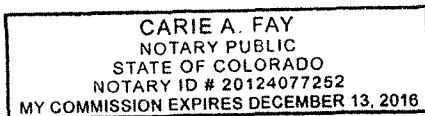
STATE OF COLORADO

Before me, a Notary Public in and for the State of Colorado, on this 8th day of February 2016, personally appeared **THOMAS L. HENSHAW**, who being duly sworn, signed and acknowledged the foregoing Assignment as his free act and deed.

Carie A. Fay
NOTARY PUBLIC

(SEAL)

My Commission Expires: December 13, 2016



Adam M. Kortan 2-10-16
ADAM M. KORTAN

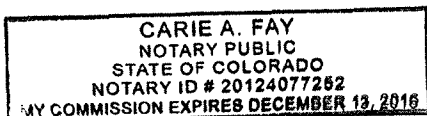
STATE OF COLORADO

Before me, a Notary Public in and for the State of Colorado, on this 10th day of February 2016, personally appeared **ADAM M. KORTAN**, who being duly sworn, signed and acknowledged the foregoing Assignment as his free act and deed.

Carie A. Fay
NOTARY PUBLIC

(SEAL)

My Commission Expires: December 13, 2016



James E. SiebARTH 2-3-16
JAMES SIEBARTH

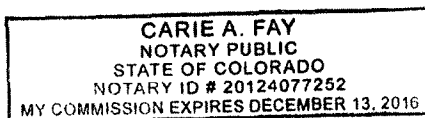
STATE OF COLORADO

Before me, a Notary Public in and for the State of Colorado, on this 3rd day of February 2016, personally appeared **JAMES SIEBARTH**, who being duly sworn, signed and acknowledged the foregoing Assignment as his free act and deed.

Carie A. Fay
NOTARY PUBLIC

My Commission Expires: December 13, 2016

(SEAL)



Colin Apke 2-11-16
COLIN APKE

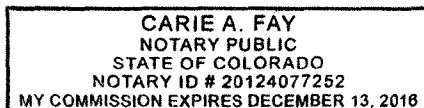
STATE OF COLORADO

Before me, a Notary Public in and for the State of Colorado, on this 11th day of February 2016, personally appeared **COLIN APKE**, who being duly sworn, signed and acknowledged the foregoing Assignment as his free act and deed.

Carie A. Fay
NOTARY PUBLIC

My Commission Expires: December 13, 2016

(SEAL)



Mark Berggren 2/3/2016
MARK BERGGREN

STATE OF COLORADO

Before me, a Notary Public in and for the State of Colorado, on this 3rd day of February 2016, personally appeared **MARK BERGGREN**, who being duly sworn, signed and acknowledged the foregoing Assignment as his free act and deed.

Carie A. Fay
NOTARY PUBLIC

(SEAL)

My Commission Expires: December 13, 2016

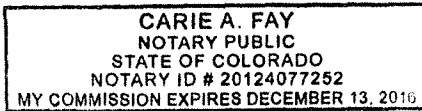


Exhibit A

Agent Docket Number	PE-1002P
Title	DIMETHYL ETHER (DME), A DIESEL-SUBSTITUTE LIQUID FUEL, FROM NATURAL GAS AND FLARE GAS FEEDSTOCK
Application Type	Provisional
Application Number	62/085,391
Filing Date	11-28-2014

Agent Docket Number	PE-1002
Title	SYSTEMS AND METHODS FOR MANUFACTURE OF DIMETHYL ETHER (DME) FROM NATURAL GAS AND FLARE GAS FEEDSTOCK
Application Type	Utility
Application Number	14/953,268
Filing Date	11-27-2015