

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT3973836

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
ANDREW GUENTHNER	10/30/2013
KEVIN LAMISON	10/30/2013
JOSEPH M. MABRY	10/30/2013
JOSIAH T. REAMS	10/30/2013
ERC, INC.	03/04/2014
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	Government of the United States as Represented by the Secretary of the Air Force
<b>Street Address:</b>	2240 B. Street
<b>Internal Address:</b>	Building 11, Area B
<b>City:</b>	Wright-Patterson AFB
<b>State/Country:</b>	OHIO
<b>Postal Code:</b>	45433-7109
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>PCT Number:</b>	US2014059727
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(937)255-3733
<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>Email:</b>	pamela.kuns@us.af.mil
<b>Correspondent Name:</b>	PAMELA KUNS
<b>Address Line 1:</b>	2240 B. STREET
<b>Address Line 2:</b>	BUILDING 11, AREA B
<b>Address Line 4:</b>	WRIGHT-PATTERSON AFB, OHIO 45433-7109
<b>ATTORNEY DOCKET NUMBER:</b>	AFD-1351PCT
<b>NAME OF SUBMITTER:</b>	CHASTITY D. S. WHITAKER
<b>SIGNATURE:</b>	/ Chastity DS Whitaker /
<b>DATE SIGNED:</b>	07/22/2016
This document serves as an Oath/Declaration (37 CFR 1.63).	

PATENT

**Total Attachments: 9**

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**DECLARATION / ASSIGNMENT**  
(Inventor with Co-Inventors)

**WHEREAS**, I, **Andrew Guenther**, while employed by the Government of the United States, jointly made an invention with **Josiah T. Reams, Joseph M. Mabry Kevin Lamison, and Anish Tuteja** described in invention disclosure AFD 1351P entitled "APPARATUS AND METHOD FOR MOBILE REFINING OF FUEL PRODUCTS", to be filed as an application for Letters Patent of the United States (Application serial number PCT/US14/059727, filed 8 October 2014), and I hereby authorize and request AFMCLO/JAZ to insert here in the above parentheses (Application number, filed) the filing date and application number of said application when known;

**WHEREAS**, The above-identified application for Letters Patent was made or authorized to be made by me;

**WHEREAS**, I believe that I am an original joint inventor of a claimed invention in the application;

**WHEREAS**, I hereby acknowledge that any willful false statement made in this Declaration/Assignment is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both;

**WHEREAS**, the conditions under which said invention was made are such as to entitle the Government of the United States under Paragraph 1(a) of Executive Order 10096, to the entire right, title and interest therein, including foreign rights; and

**NOW, THEREFORE**, to all whom it may concern, be it known that for and in consideration of the premises and other valuable considerations, I, **Andrew Guenther**, have sold, assigned, and transferred, and by these presents do sell, assign, and transfer unto the Government of the United States, as represented by the Secretary of the Air Force, my entire right, title and interest throughout the world in and to the aforesaid invention described in the aforesaid application for Letters Patent of the United States and all Letters Patent issuing thereon and any continuations, continuations-in-part, divisions, and reissues or extensions thereof; and all priority resulting from the filing of the aforesaid application for patent in the United States; I hereby authorize and request any official whose duty it is to issue patents to issue any patent thereon to the Government of the United States, as represented by the Secretary of the Air Force, and his successors, as assignee of my entire right, title and interest in and to the same, for the sole use for the full term or terms for which said patents and any continuations, continuations-in-part, divisions and reissues or extensions thereof are, or may be, granted as fully and entirely as the same would have been held by me had this Assignment not been made; and I do hereby also grant to the Government of the United States, as represented by the Secretary of the Air Force, the option to take the entire right, title and interest in the invention or all applications for Letters Patent thereon in all countries foreign to the United States in which the Government of the United States may file, or cause to be filed, applications for Letters Patent, without payment to me of any further consideration; provided, however, that this grant of an option to take foreign rights in the invention must be exercised by written notice to me within eight months of the filing date of any application for United States Letters Patent covering the invention, or within eight months from the declassification of the invention, whichever is later, and that all foreign rights not exercised under the option are left to me subject to a nonexclusive, irrevocable, royalty-free license to the Government of the United States in any patent which may issue on said invention in any foreign country, including the power to issue sublicenses for use on behalf of the Government of the United States and/or in furtherance of the foreign policies of the United States of America; and I hereby agree to execute any and all applications for Letters Patent, and to furnish all data and documents and to execute any papers which may be necessary or convenient for the preparation, filing, or prosecution of such applications, except it is understood that I shall not be subject to any out-of-pocket expense relative to such action.

California Notary Certificate  
Attached

 10-30-13  
Andrew Guenther

SUBSCRIBED AND ACKNOWLEDGED before me by **Andrew Guenther** this \_\_\_\_\_ day of \_\_\_\_\_  
2013, at the city of \_\_\_\_\_ in the County of \_\_\_\_\_  
and State of \_\_\_\_\_.

\_\_\_\_\_  
Notary Public

# CALIFORNIA ALL-PURPOSE CERTIFICATE OF ACKNOWLEDGMENT

State of California

County of Los Angeles

On 10/30/2013 before me, Sophia D. Romero, Notary Public  
(Here insert name and title of the officer)

personally appeared Andrew Guenther

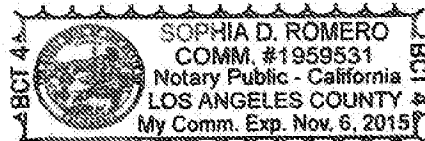
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Sophia D. Romero  
Signature of Notary Public

(Notary Seal)



## ADDITIONAL OPTIONAL INFORMATION

### DESCRIPTION OF THE ATTACHED DOCUMENT

Declaration / Assignment  
(Title or description of attached document)

(Title or description of attached document continued)

Number of Pages 1 Document Date 10/30/13

(Additional information)

### CAPACITY CLAIMED BY THE SIGNER

- ☐ Individual (s)  
☐ Corporate Officer

(Title)

- ☐ Partner(s)  
☐ Attorney-in-Fact  
☐ Trustee(s)  
☐ Other \_\_\_\_\_

### INSTRUCTIONS FOR COMPLETING THIS FORM

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- State and County information must be the State and County where the document signer(s) personally appeared before the notary public for acknowledgment.
- Date of notarization must be the date that the signer(s) personally appeared which must also be the same date the acknowledgment is completed.
- The notary public must print his or her name as it appears within his or her commission followed by a comma and then your title (notary public).
- Print the name(s) of document signer(s) who personally appear at the time of notarization.
- Indicate the correct singular or plural forms by crossing off incorrect forms (i.e. he/she/they- is /are ) or circling the correct forms. Failure to correctly indicate this information may lead to rejection of document recording.
- The notary seal impression must be clear and photographically reproducible. Impression must not cover text or lines. If seal impression smudges, re-seal if a sufficient area permits, otherwise complete a different acknowledgment form.
- Signature of the notary public must match the signature on file with the office of the county clerk.
  - ✦ Additional information is not required but could help to ensure this acknowledgment is not misused or attached to a different document.
  - ✦ Indicate title or type of attached document, number of pages and date.
  - ✦ Indicate the capacity claimed by the signer. If the claimed capacity is a corporate officer, indicate the title (i.e. CEO, CFO, Secretary).
- Securely attach this document to the signed document.

**DECLARATION / ASSIGNMENT**  
**(Inventor with Co-inventors)**

WHEREAS, I, Kevin Lamison, while employed by ERC, Inc. ("Contractor"), jointly made an invention with Andrew Guenthner, Joseph M. Mabry, Joseiah T. Reams, and Anish Tuteja under contract/subcontract number FA9300-06-C-0023 described in invention disclosure AFD 1351 entitled "APPARATUS AND METHOD FOR MOBILE REFINING OF FUEL PRODUCTS", to be filed as an application for Letters Patent of the United States (Application serial number PCT/US14/059727, filed 8 October 2014), and I hereby authorize and request AFMCLO/JAZ to insert here in the above parentheses (Application serial number, filed) the filing date and application number of said application when known;

WHEREAS, The above-identified application for Letters Patent was made or authorized to be made by me;

WHEREAS, I believe that I am an original joint inventor of a claimed invention in the application;

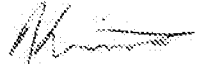
WHEREAS, I hereby acknowledge that any willful false statement made in this Declaration/Assignment is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both; and

NOW, THEREFORE, to all whom it may concern, I, Kevin Lamison, in recognition of my obligation as an employee of the Contractor to assign inventions to the Contractor, and pursuant to the obligations of the Contractor to the Government of the United States under the above contract and by agreement, hereby assign to the Government of the United States, as represented by the Secretary of the Air Force, my entire right, title, and interest throughout the world in and to each invention disclosed and claimed in the above application for Letters Patent, made jointly with Andrew Guenthner, Joseph M. Mabry, Joseiah T. Reams, and Anish Tuteja, employee(s) of the Government and Contractor, and all Letters Patent issuing thereon and any continuations, continuations-in-part, divisions, and reissues or extensions thereof, subject to the reservation to the Contractor of any license to which the Contractor may be entitled under the above contract.

I agree to assist the Contractor and the Government of the United States, upon request, by furnishing any available information and documents, performing all acts, and doing all things which may be reasonably necessary to timely prepare, file and prosecute such applications, and make this assignment effective.

The Contractor joins in and agrees to this assignment and, except for the reservation of any license under the above contract, relinquishes and assigns to the Government of the United States, as represented by the Secretary of the Air Force their entire right, title, and interest throughout the world in and to such inventions, and further agrees to furnish to the Government of the United States, upon request, any available information and documents necessary for the timely preparation, filing, and prosecution of such applications, for Letters Patent.

California Notary Certificate  
Attached

  10-30-13  
Kevin Lamison

SUBSCRIBED AND ACKNOWLEDGED before me by Kevin Lamison this \_\_\_\_\_ day of \_\_\_\_\_ 2013, at the city of \_\_\_\_\_ in the County of \_\_\_\_\_ and State of \_\_\_\_\_.

\_\_\_\_\_  
Notary Public

# CALIFORNIA ALL-PURPOSE CERTIFICATE OF ACKNOWLEDGMENT

State of California

County of Los Angeles

On 10/20/2013 before me, Sophia D. Romero, Notary Public  
(Here insert name and title of the officer)

personally appeared Kevin Lamison

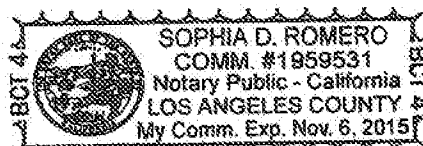
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Sophia D. Romero  
Signature of Notary Public

(Notary Seal)



## ADDITIONAL OPTIONAL INFORMATION

### DESCRIPTION OF THE ATTACHED DOCUMENT

Declaration Assignment  
(Title or description of attached document)

(Title or description of attached document continued)

Number of Pages 1 Document Date 10/30/13

(Additional information)

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☐ Corporate Officer

(Title)

- ☐ Partner(s)  
☐ Attorney-in-Fact  
☐ Trustee(s)  
☐ Other \_\_\_\_\_

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- Securely attach this document to the signed document

**DECLARATION / ASSIGNMENT**  
**(Inventor with Co-Inventors)**

WHEREAS, I, **Joseph M. Mabry**, while employed by the Government of the United States, jointly made an invention with **Josiah T. Reams, Andrew Guenther, Kevin Lamison, and Anish Tuteja** described in invention disclosure AFD 1351P entitled "APPARATUS AND METHOD FOR MOBILE REFINING OF FUEL PRODUCTS", to be filed as an application for Letters Patent of the United States (Application serial number PCT/US14/059727, filed 8 October 2014), and I hereby authorize and request AFMCLO/JAZ to insert here in the above parentheses (Application number, filed) the filing date and application number of said application when known;

WHEREAS, The above-identified application for Letters Patent was made or authorized to be made by me;

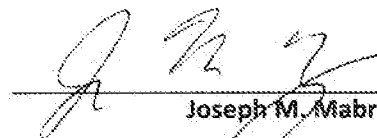
WHEREAS, I believe that I am an original joint inventor of a claimed invention in the application;

WHEREAS, I hereby acknowledge that any willful false statement made in this Declaration/Assignment is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both;

WHEREAS, the conditions under which said invention was made are such as to entitle the Government of the United States under Paragraph 1(a) of Executive Order 10096, to the entire right, title and interest therein, including foreign rights; and

NOW, THEREFORE, to all whom it may concern, be it known that for and in consideration of the premises and other valuable considerations, I, **Joseph M. Mabry**, have sold, assigned, and transferred, and by these presents do sell, assign, and transfer unto the Government of the United States, as represented by the Secretary of the Air Force, my entire right, title and interest throughout the world in and to the aforesaid invention described in the aforesaid application for Letters Patent of the United States and all Letters Patent issuing thereon and any continuations, continuations-in-part, divisions, and reissues or extensions thereof; and all priority resulting from the filing of the aforesaid application for patent in the United States; I hereby authorize and request any official whose duty it is to issue patents to issue any patent thereon to the Government of the United States, as represented by the Secretary of the Air Force, and his successors, as assignee of my entire right, title and interest in and to the same, for the sole use for the full term or terms for which said patents and any continuations, continuations-in-part, divisions and reissues or extensions thereof are, or may be, granted as fully and entirely as the same would have been held by me had this Assignment not been made; and I do hereby also grant to the Government of the United States, as represented by the Secretary of the Air Force, the option to take the entire right, title and interest in the invention or all applications for Letters Patent thereon in all countries foreign to the United States in which the Government of the United States may file, or cause to be filed, applications for Letters Patent, without payment to me of any further consideration; provided, however, that this grant of an option to take foreign rights in the invention must be exercised by written notice to me within eight months of the filing date of any application for United States Letters Patent covering the invention, or within eight months from the declassification of the invention, whichever is later, and that all foreign rights not exercised under the option are left to me subject to a nonexclusive, irrevocable, royalty-free license to the Government of the United States in any patent which may issue on said invention in any foreign country, including the power to issue sublicenses for use on behalf of the Government of the United States and/or in furtherance of the foreign policies of the United States of America; and I hereby agree to execute any and all applications for Letters Patent, and to furnish all data and documents and to execute any papers which may be necessary or convenient for the preparation, filing, or prosecution of such applications, except it is understood that I shall not be subject to any out-of-pocket expense relative to such action.

California Notary Certificate  
Attached

 30 Oct 2013  
Joseph M. Mabry

SUBSCRIBED AND ACKNOWLEDGED before me by **Joseph M. Mabry** this \_\_\_\_\_ day of \_\_\_\_\_ 2013, at the city of \_\_\_\_\_ in the County of \_\_\_\_\_ and State of \_\_\_\_\_.

\_\_\_\_\_  
Notary Public

# CALIFORNIA ALL-PURPOSE CERTIFICATE OF ACKNOWLEDGMENT

State of California

County of Los Angeles

On 10/30/2013 before me, Sophia D. Romero, Notary Public  
(Here insert name and title of the officer)

personally appeared Joseph M. Mabry

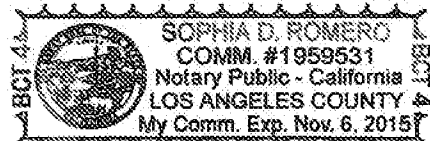
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature of Notary Public

(Notary Seal)



## ADDITIONAL OPTIONAL INFORMATION

### DESCRIPTION OF THE ATTACHED DOCUMENT

Declaration / Assignment  
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### CAPACITY CLAIMED BY THE SIGNER

- ☐ Individual(s)  
☐ Corporate Officer

(Title)

- ☐ Partner(s)  
☐ Attorney-in-Fact  
☐ Trustee(s)  
☐ Other \_\_\_\_\_

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- Securely attach this document to the signed document.



**DECLARATION / ASSIGNMENT**  
**(Inventor with Co-inventors)**

WHEREAS, I, **Josiah T. Reams**, while employed by **ERC, Inc.** ("Contractor"), jointly made an invention with **Andrew Guenther, Joseph M. Mabry, Kevin Lamison, and Anish Tuteja** under contract/subcontract number **FA9300-06-C-0023** described in invention disclosure AFD 1351 entitled "APPARATUS AND METHOD FOR MOBILE REFINING OF FUEL PRODUCTS", to be filed as an application for Letters Patent of the United States (Application serial number **PCT/US14/059727**, filed **8 October 2014**), and I hereby authorize and request AFMCLO/JAZ to insert here in the above parentheses (Application serial number, filed) the filing date and application number of said application when known;

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WHEREAS, I believe that I am an original joint inventor of a claimed invention in the application;

WHEREAS, I hereby acknowledge that any willful false statement made in this Declaration/Assignment is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both; and

NOW, THEREFORE, to all whom it may concern, I, **Josiah T. Reams**, in recognition of my obligation as an employee of the Contractor to assign inventions to the Contractor, and pursuant to the obligations of the Contractor to the Government of the United States under the above contract and by agreement, hereby assign to the Government of the United States, as represented by the Secretary of the Air Force, my entire right, title, and interest throughout the world in and to each invention disclosed and claimed in the above application for Letters Patent, made jointly with **Andrew Guenther, Joseph M. Mabry, Kevin Lamison, and Anish Tuteja**, employee(s) of the Government and Contractor, and all Letters Patent issuing thereon and any continuations, continuations-in-part, divisions, and reissues or extensions thereof, subject to the reservation to the Contractor of any license to which the Contractor may be entitled under the above contract.

I agree to assist the Contractor and the Government of the United States, upon request, by furnishing any available information and documents, performing all acts, and doing all things which may be reasonably necessary to timely prepare, file and prosecute such applications, and make this assignment effective.

The Contractor joins in and agrees to this assignment and, except for the reservation of any license under the above contract, relinquishes and assigns to the Government of the United States, as represented by the Secretary of the Air Force their entire right, title, and interest throughout the world in and to such inventions, and further agrees to furnish to the Government of the United States, upon request, any available information and documents necessary for the timely preparation, filing, and prosecution of such applications, for Letters Patent.

California Notary Certificate  
Attached

  
\_\_\_\_\_  
Josiah T. Reams

10/30/13

SUBSCRIBED AND ACKNOWLEDGED before me by **Josiah T. Reams** this \_\_\_\_\_ day of

\_\_\_\_\_, 2013, at the city of \_\_\_\_\_ in the County of

\_\_\_\_\_ and State of \_\_\_\_\_.

\_\_\_\_\_  
Notary Public

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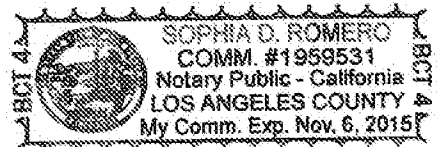
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

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Signature of Notary Public

(Notary Seal)



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- Date of notarization must be the date that the signer(s) personally appeared which must also be the same date the acknowledgment is completed.
- The notary public must print his or her name as it appears within his or her commission followed by a comma and then your title (notary public).
- Print the name(s) of document signer(s) who personally appear at the time of notarization.
- Indicate the correct singular or plural forms by crossing off incorrect forms (i.e. he/she/they- is /are ) or circling the correct forms. Failure to correctly indicate this information may lead to rejection of document recording.
- The notary seal impression must be clear and photographically reproducible. Impression must not cover text or lines. If seal impression smudges, re-seal if a sufficient area permits, otherwise complete a different acknowledgment form.
- Signature of the notary public must match the signature on file with the office of the county clerk.
  - ❖ Additional information is not required but could help to ensure this acknowledgment is not misused or attached to a different document.
  - ❖ Indicate title or type of attached document, number of pages and date.
  - ❖ Indicate the capacity claimed by the signer. If the claimed capacity is a corporate officer, indicate the title (i.e. CEO, CFO, Secretary).
- Securely attach this document to the signed document.

**CONTRACTOR CERTIFICATION:**

I certify that I am an officer or agent of the Contractor herein; and that Josiah T. Reams and Kevin Lamison who signed this assignment on behalf of the Contractor was then an employee of said Contractor at the time of invention. The Contractor further herein assigns their rights as the employer of Josiah T. Reams and Kevin Lamison to the Government of the United States consistent with our rights and obligations under contract and statute, subject to the reservation to the Contractor of any license to which the Contractor may be entitled under the above contract or statute. This assignment is duly signed below by Contractor's Officer or Agent for and on behalf of said Contractor by authority of its governing body, and is within the scope of the Officer's or Agent's corporate powers.

**FOR THE CONTRACTOR**Contractor: ERC, Inc.By:   
(Signature of officer or agent)Date: March 4, 2014Printed Name: Kenneth T LylesTitle: Chief Administrative OfficerBusiness Address: 308 Voyager Way, Huntsville, ALBusiness Phone: 256-327-9170