505832634 12/20/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5879567

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JOSEPH M MABRY	09/20/2012
SEAN RAMIREZ	09/20/2012
TIMOTHY S HADDAD	09/20/2012
ERC. INC.	09/20/2012

RECEIVING PARTY DATA

Name:	GOVERNMENT OF THE UNITED STATES AS REPRESENTED BY THE SECRETARY OF THE AIR FORCE
Street Address:	2240 B STREET
Internal Address:	AREA B, BUILDING 11
City:	WRIGHT-PATTERSON AFB
State/Country:	OHIO
Postal Code:	45044-7109

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16722770

CORRESPONDENCE DATA

Fax Number:

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: 937-904-5077

Email: usaf.patent.correspondence@gmail.com

Correspondent Name: DEPARTMENT OF THE AIR FORCE AFMCLO/JAZ

Address Line 1: 2240 B STREET
Address Line 2: BUILDING 11

Address Line 4: WRIGHT-PATTERSON AFB, OHIO 45433-7109

ATTORNEY DOCKET NUMBER:	AFD 1206DIV3
NAME OF SUBMITTER:	CHASTITY D. S. WHITAKER, PH.D.
SIGNATURE:	/ Chastity DS Whitaker /
DATE SIGNED:	12/20/2019
	This document serves as an Oath/Declaration (37 CFR 1.63).

PATENT 505832634 REEL: 051345 FRAME: 0441

Total Attachments: 5 source=16722770_Assign+Decl#page1.tif source=16722770_Assign+Decl#page2.tif source=16722770_Assign+Decl#page3.tif

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PATENT REEL: 051345 FRAME: 0442

DECLARATION / ASSIGNMENT

WHEREAS, I, Joseph M. Mabry, while employed by the Government of the United States, jointly made an invention with Timothy S. Haddad and Sean Ramirez described in invention disclosure AFD 1206 entitled "SYNTHESIS OF FUNCTIONAL FLUORINATED POLYHEDRAL OLIGOMERIC SILSESQUIOXANE (F-POSS)", to be filed as an application for Letters Patent of the United States (Application serial number 16/722,770, filed $20 \, \mathrm{Dec} \, 2019$), 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 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 any and all applications for patent and patents in any and all countries foreign to the United States, and all Letters Patent issuing thereon and any continuations, continuations-inpart, 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 United States of America, 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 United States of America 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 United States of America 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 United States of America 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.

Joseph	YN Mabry
SUBSCRIBED AND ACKNOWLEDGED before me by Joseph M. Mabry this	day of
2012, at the city of	in the County of
and State of	
KREAGESTEANACI	ment +
Note	arv Public

12992

CALIFORNIA JURAT WITH AFFIANT STATEMENT ✓ See Attached Document (Notary to cross out lines 1–6 below) See Statement Below (Lines 1-5 to be completed only by document signer[s], not Notary) Signature of Document Signer No. 1 State of California County of LOS ANGERES Subscribed and swom to (or affirmed) before me on this proved to me on the basis of satisfactory evidence to be the person who appeared before me (.) (.) Jennifer ann Patterson (and Commission # 1845665 Name of Signer Notary Public - California Los Angeles County My Comm. Expires Apr 20, 2013 proved to me on the basis of satisfactory evidence to be the person who appeared before me 1 Signature Place Notary Seal Above OPTIONAL -Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and realtachment of this form to another document. Too of thumb here Further Description of Any Attached Document

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Signer(s) Other Than Named Above:

DECLARATION / ASSIGNMENT

WHEREAS, I, Sean Ramirez, while employed by ERC, Inc. ("Contractor"), jointly made an invention with Joseph M. Mabry and Timothy S. Haddad under contract/subcontract number FA9300-06-C-0023 described in invention disclosure AFD 1206 entitled "SYNTHESIS OF FUNCTIONAL FLUORINATED POLYHEDRAL OLIGOMERIC SILSESQUIOXANE (F-POSS)", to be filed as an application for Letters Patent of the United States (Application serial number $\frac{16/722,770}{1}$, filed $\frac{20~\text{Dec}~2019}{1}$), 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;

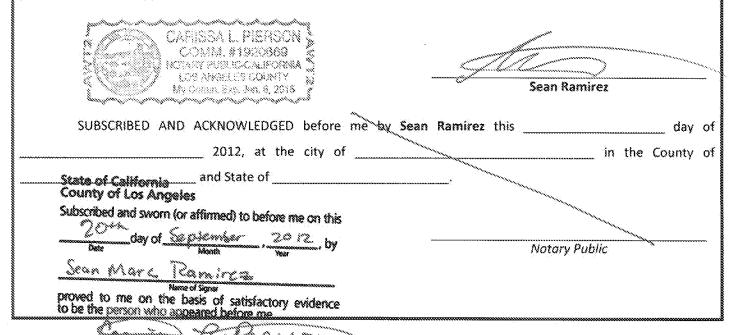
WHEREAS, I believe that I am an original joint inventor of a claimed invention in the application;

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, Sean Ramirez, 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 United States of America, 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 Joseph M. Mabry and Timothy S. Haddad, 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, 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 United States of America 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, upon request, any available information and documents necessary for the timely preparation, filing, and prosecution of such applications, for Letters Patent.



PATENT REEL: 051345 FRAME: 0445

DECLARATION / ASSIGNMENT

WHEREAS, I, Timothy S. Haddad, while employed by ERC, Inc. ("Contractor"), jointly made an invention with Joseph M. Mabry and Sean Ramirez under contract/subcontract number FA9300-06-C-0023 described in invention disclosure AFD 1206 entitled "SYNTHESIS OF FUNCTIONAL FLUORINATED POLYHEDRAL OLIGOMERIC SILSESQUIOXANE (F-POSS)", to be filed as an application for Letters Patent of the United States (Application serial number $\pm 16/722,770$, filed ± 20 Dec ± 2019), 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, Timothy S. Haddad, 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 United States of America, 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 Joseph M. Mabry and Sean Ramírez, 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, 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 United States of America 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, upon request, any available information and documents necessary for the timely preparation, filing, and prosecution of such applications, for Letters Patent.

CAFISSA L. PIERSON COMM. #1920#89 STORY PURCH CAUFORNA	TUHLI	
LOS ANGELES COUNTY I	Timothy S. Haddad	
SUBSCRIBED AND ACKNOWLEDGED before me by Timoth	hy S. Haddad this	day of
2012, at the city of	in the	County of
State of California and State of California and State of County of Los Angeles		
Subscribed and sworn (or affirmed) to before me on this		
	Notary Public	
Timothy Samir Haddad		1
proved to me on the basis of satisfactory evidence to be the province appeared before ma		

PATENT REEL: 051345 FRAME: 0446

CONTRACTOR CERTIFICATION:

I certify that I am an officer or agent of the Contractor herein; and that **Timothy S. Haddad and Sean Ramirez** 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 **Timothy S. Haddad and Sean Ramirez** 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	FOR	THE	CONTR	EACTOR
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Contractor:	ERC, Inc.
By:	
	(Signature of Officer or agent)
Date:	20 September 2012
Printed Name:	David H. Campbell
Title:	
Business Address:	AFRI/RORP 10 E Satura Blud Edwards AFB, CA 93534
Business Phone:	661-275-6178 CA 93534

PATENT REEL: 051345 FRAME: 0447

RECORDED: 12/20/2019