

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4994631

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
MATTHEW SQUIRES	04/03/2018
ESTEVAN NUNEZ	03/15/2018
BENJAMIN WATSON	03/16/2018
COLE YARBROUGH	03/28/2018
BRIAN KASCH	04/06/2018
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	THE GOVERNMENT OF THE UNITED STATES AS REPRESENTED BY THE SECRETARY OF THE AIR FORCE
<b>Street Address:</b>	1551 WYOMING BLVD. SE
<b>Internal Address:</b>	AFNWC/JA
<b>City:</b>	KIRTLAND AFB
<b>State/Country:</b>	NEW MEXICO
<b>Postal Code:</b>	87117
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	16001746
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(505)853-8294
<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>Phone:</b>	505-846-5172
<b>Email:</b>	james.skorich@us.af.mil
<b>Correspondent Name:</b>	JAMES M. SKORICH
<b>Address Line 1:</b>	1551 WYOMING BLVD. SE
<b>Address Line 2:</b>	AFNWC/JA
<b>Address Line 4:</b>	KIRTLAND AFB, NEW MEXICO 87117
<b>ATTORNEY DOCKET NUMBER:</b>	PRS274
<b>NAME OF SUBMITTER:</b>	JAMES M. SKORICH
<b>SIGNATURE:</b>	/James M. Skorich/
<b>DATE SIGNED:</b>	06/06/2018

**Total Attachments: 8**

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**ASSIGNMENT**  
**(Government Inventor)**

WHEREAS, I, **Matthew Squires**, while employed by the Government of the United States, made or contributed to an invention described in invention disclosure **PRS 274** entitled "**PIEZOELECTRIC ROTARY OPTICAL MOUNT**", to be filed as an application for Letters Patent of the United States (Application Serial Number \_\_\_\_\_, filed \_\_\_\_\_), and I hereby authorize and request AFNWC/JA to insert here in the above parentheses (Application Serial Number, filed) the filing date and application number of said application when known; and

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

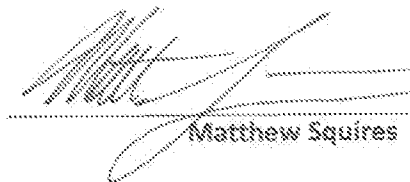
NOW, THEREFORE, to all whom it may concern, be it known that for and in consideration of the premises and other valuable considerations, I, **Matthew Squires**:

HEREBY 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, in and to the aforesaid invention described in the invention disclosure, all subsequent information to support that aforesaid invention, and the resulting application for Letters Patent of the United States including 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;

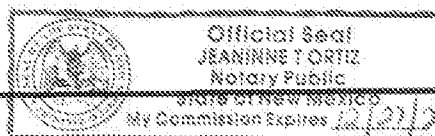
HEREBY AUTHORIZE AND REQUEST any official whose duty it is to issue patents, to issue any patent thereon to the Government of the United States, as represented by the Secretary of the Air Force, and his successors, as assignee of my entire right, title and interest in and to the same, for the sole use 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;

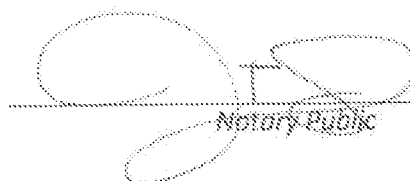
HEREBY ALSO GRANT to the Government of the United States, as represented by the Secretary of the Air Force, the option to take the entire right, title and interest in the invention or all applications for Letters Patent thereon in all countries or jurisdictions foreign to the United States in which the 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 first 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 country or jurisdiction foreign to the United States, 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

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.

  
Matthew Squires

SUBSCRIBED AND ACKNOWLEDGED before me by **Matthew Squires** this 3rd day of April 2018, at the city of Albuquerque in the County of Bernalillo and State of New Mexico.



  
Notary Public

**ASSIGNMENT  
(Contractor Inventor)**

WHEREAS, I, ESTEVAN NUNEZ, while employed by Universities Space Research Association ("Contractor"), jointly made or contributed to an invention under contract/subcontract number Contract Number, as described in invention disclosure PRS 274 entitled "PIEZOELECTRIC ROTARY OPTICAL MOUNT," to be filed as an application for Letters Patent of the United States (Application Serial Number \_\_\_\_\_, filed \_\_\_\_\_), and I hereby authorize and request Air Force Patent Counsel to insert here in the above parentheses (Application Serial Number, filed) the filing date and application number of said application when known; and

WHEREAS, Contractor and/or I, ESTEVAN NUNEZ, has indicated its intention to NOT elect title and NOT file an application for Letters Patent on the aforesaid invention;

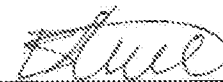
NOW, THEREFORE, to all whom it may concern, be it known that in recognition of my obligation to the Government of the United States under the above contract and by agreement, or in consideration of the premises and other valuable consideration, I, ESTEVAN NUNEZ, elect herein to:

HEREBY 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, in and to the aforesaid invention described in the invention disclosure, all subsequent information to support that aforesaid invention, and the resulting application for Letters Patent of the United States including all Letters Patent issuing thereon, and any continuations, continuations-in-part, divisions, and reissues or extensions thereof; and all patent applications claiming priority resulting from the filing of the aforesaid application for patent in the United States in any jurisdiction throughout the world, subject to the reservation of any license to which Contractor and/or I, ESTEVAN NUNEZ, may be entitled under the above contract;

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

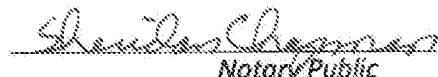
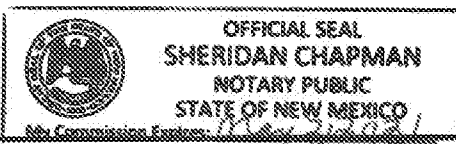
HEREBY AGREE to execute, and assist with executing, any and all applications for Letters Patent, and to furnish all data and documents and to execute any papers which may be necessary or convenient for the preparation, filing, or prosecution of such applications, except it is understood that Contractor and/or I, ESTEVAN NUNEZ, shall not be subject to any out-of-pocket expense relative to such action.

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 its 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.



ESTEVAN NUNEZ

SUBSCRIBED AND ACKNOWLEDGED before me by ESTEVAN NUNEZ this 15<sup>th</sup> day of March 2018, at the city of Albuquerque in the County of Bernalillo and State of New Mexico.

  
Notary Public

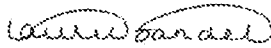
### CONTRACTOR CERTIFICATION

I certify that I am an Officer or Agent of Contractor herein, and that **ESTEVAN NUNEZ**, who signed this assignment on behalf of Contractor, was an employee of said Contractor at the time of invention and was authorized to sign this assignment on his/her own behalf. Contractor, further, herein assigns its rights as the employer of **ESTEVAN NUNEZ** to the Government of the United States as represented by the Secretary of the Air Force, consistent with our rights and obligations under contract and statute, subject to the reservation to Contractor of any license to which 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 CONTRACTOR

ESTEVAN NUNEZ performed work  
under contract number:  
FA9453-13-2-0263

Contractor: Universities Space Research  
Association

By:   
(Signature of officer or agent)

Date: 3/30/2018

Printed Name: Laurie Sandel

Title: Manager II, Contracts & Grants

Business Address: 3600 Bay Area Blvd, Houston, TX 77058

Business Phone: 486-281-2102

**ASSIGNMENT  
(Contractor Inventor)**

WHEREAS, I, BENJAMIN WATSON, while employed by Universities Space Research Association ("Contractor"), jointly made or contributed to an invention under contract/subcontract number Contract Number, as described in invention disclosure PRS 274 entitled "PIEZOELECTRIC ROTARY OPTICAL MOUNT," to be filed as an application for Letters Patent of the United States (Application Serial Number \_\_\_\_\_, filed \_\_\_\_\_), and I hereby authorize and request Air Force Patent Counsel to insert here in the above parentheses (Application Serial Number, filed) the filing date and application number of said application when known; and

WHEREAS, Contractor and/or I, BENJAMIN WATSON, has indicated its intention to NOT elect title and NOT file an application for Letters Patent on the aforesaid invention;

NOW, THEREFORE, to all whom it may concern, be it known that in recognition of my obligation to the Government of the United States under the above contract and by agreement, or in consideration of the premises and other valuable consideration, I, BENJAMIN WATSON, elect herein to:

HEREBY 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, in and to the aforesaid invention described in the invention disclosure, all subsequent information to support that aforesaid invention, and the resulting application for Letters Patent of the United States including all Letters Patent issuing thereon, and any continuations, continuations-in-part, divisions, and reissues or extensions thereof; and all patent applications claiming priority resulting from the filing of the aforesaid application for patent in the United States in any jurisdiction throughout the world, subject to the reservation of any license to which Contractor and/or I, BENJAMIN WATSON, may be entitled under the above contract;

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

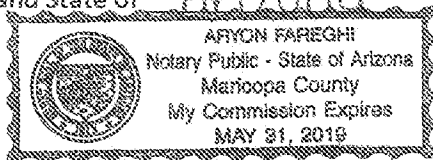
HEREBY AGREE to execute, and assist with executing, any and all applications for Letters Patent, and to furnish all data and documents and to execute any papers which may be necessary or convenient for the preparation, filing, or prosecution of such applications, except it is understood that Contractor and/or I, BENJAMIN WATSON, shall not be subject to any out-of-pocket expense relative to such action.

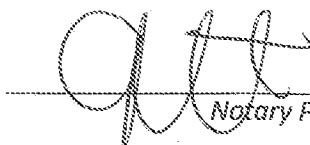
Contractor joins in and agrees to this assignment and, except for the reservation of any license under the above contract, relinquishes and assigns to the Government of the United States, as represented by the Secretary of the Air Force its entire right, title, and interest throughout the world in and 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.



BENJAMIN WATSON

SUBSCRIBED AND ACKNOWLEDGED before me by BENJAMIN WATSON this 16 day of March 2018, at the city of Tempe in the County of Maricopa and State of Arizona



  
Notary Public

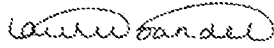
### CONTRACTOR CERTIFICATION

I certify that I am an Officer or Agent of Contractor herein, and that **BENJAMIN WATSON**, who signed this assignment on behalf of Contractor, was an employee of said Contractor at the time of invention and was authorized to sign this assignment on his/her own behalf. Contractor, further, herein assigns its rights as the employer of **BENJAMIN WATSON** to the Government of the United States as represented by the Secretary of the Air Force, consistent with our rights and obligations under contract and statute, subject to the reservation to Contractor of any license to which 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 CONTRACTOR

BENJAMIN WATSON performed work  
under contract number:  
FA9453-13-2-0263

Contractor: Universities Space Research  
Association

By:   
(Signature of officer or agent)

Date: 3/30/2018

Printed Name: Laurie Sandel

Title: Manager II, Contracts & Grants

Business Address: 3600 Bay Area Blvd, Houston, TX 77058

Business Phone: 281-486-2102

**ASSIGNMENT**  
**(Contractor Inventor)**

WHEREAS, I, COLE YARBROUGH, while employed by Universities Space Research Association ("Contractor"), jointly made or contributed to an invention under contract/subcontract number Contract Number, as described in invention disclosure PRS 274 entitled "PIEZOELECTRIC ROTARY OPTICAL MOUNT," to be filed as an application for Letters Patent of the United States (Application Serial Number \_\_\_\_\_, filed \_\_\_\_\_), and I hereby authorize and request Air Force Patent Counsel to insert here in the above parentheses (Application Serial Number, filed) the filing date and application number of said application when known; and

WHEREAS, Contractor and/or I, COLE YARBROUGH, has indicated its intention to **NOT** elect title and **NOT** file an application for Letters Patent on the aforesaid invention;


NOW, THEREFORE, to all whom it may concern, be it known that in recognition of my obligation to the Government of the United States under the above contract and by agreement, or in consideration of the premises and other valuable consideration, I, COLE YARBROUGH, elect herein to:

HEREBY 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, in and to the aforesaid invention described in the invention disclosure, all subsequent information to support that aforesaid invention, and the resulting application for Letters Patent of the United States including all Letters Patent issuing thereon, and any continuations, continuations-in-part, divisions, and reissues or extensions thereof; and all patent applications claiming priority resulting from the filing of the aforesaid application for patent in the United States in any jurisdiction throughout the world, subject to the reservation of any license to which Contractor and/or I, COLE YARBROUGH, may be entitled under the above contract;

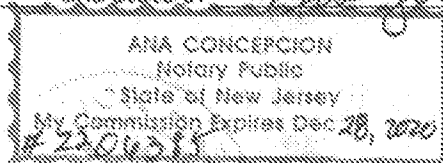
HEREBY AUTHORIZE AND REQUEST any official whose duty it is to issue patents, to issue any patent thereon to the Government of the United States, as represented by the Secretary of the Air Force, and his successors, as assignee of my entire right, title and interest in and to the same, for the sole use 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

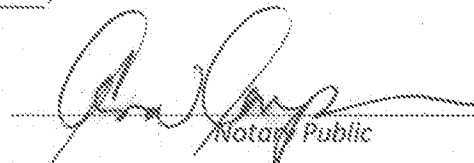
HEREBY AGREE to execute, and assist with executing, any and all applications for Letters Patent, and to furnish all data and documents and to execute any papers which may be necessary or convenient for the preparation, filing, or prosecution of such applications, except it is understood that Contractor and/or I, COLE YARBROUGH, shall not be subject to any out-of-pocket expense relative to such action.

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 its 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.

  
\_\_\_\_\_  
COLE YARBROUGH

SUBSCRIBED AND ACKNOWLEDGED before me by COLE YARBROUGH this 28 day of March 2018, at the city of Hoboken in the County of Hudson and State of New Jersey



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



### CONTRACTOR CERTIFICATION

I certify that I am an Officer or Agent of Contractor herein, and that **COLE YARBROUGH**, who signed this assignment on behalf of Contractor, was an employee of said Contractor at the time of invention and was authorized to sign this assignment on his/her own behalf. Contractor, further, herein assigns its rights as the employer of **COLE YARBROUGH** to the Government of the United States as represented by the Secretary of the Air Force, consistent with our rights and obligations under contract and statute, subject to the reservation to Contractor of any license to which 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 CONTRACTOR

COLE YARBROUGH performed work  
under contract number:  
FA9453-13-2-0263

Universities Space Research  
Association

Contractor: \_\_\_\_\_

By: 

(Signature of officer or agent)

Date: 3/30/2018

Printed Name: Laurie Sandel

Title: Manager II, Contracts & Grants

Business Address: 3600 Bay Area Blvd, Houston, TX 77058

Business Phone: 281-486-2102

**ASSIGNMENT**  
**(Government Inventor)**

WHEREAS, I, Brian Kasch, while employed by the Government of the United States, made or contributed to an invention described in invention disclosure PRS 274 entitled "PIEZOELECTRIC ROTARY OPTICAL MOUNT", to be filed as an application for Letters Patent of the United States (Application Serial Number \_\_\_\_\_, filed \_\_\_\_\_), and I hereby authorize and request AFNWC/JA to insert here in the above parentheses (Application Serial Number, filed) the filing date and application number of said application when known; and

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HEREBY 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, in and to the aforesaid invention described in the invention disclosure, all subsequent information to support that aforesaid invention, and the resulting application for Letters Patent of the United States including 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;

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;

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 or jurisdictions 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 first 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 country or jurisdiction foreign to the United States, 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

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.

  
\_\_\_\_\_  
Brian Kasch

SUBSCRIBED AND ACKNOWLEDGED before me by Brian Kasch this 6<sup>th</sup> day of

April

2018, at the city of Albuquerque

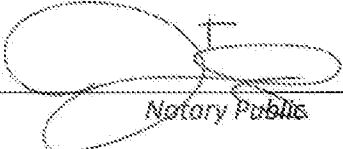
in the County of

Bernalillo

and State of New Mexico.



Official Seal  
JEANNINE T. ORTIZ  
Notary Public  
State of New Mexico  
Commission Expires 12/31/2020

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

**PATENT**

**RECORDED: 06/06/2018**

**REEL: 046006 FRAME: 0484**