504947884 06/06/2018

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4994631

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	

CONVEYING PARTY DATA

Name	Execution Date
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

RECEIVING PARTY DATA

Name:	THE GOVERNMENT OF THE UNITED STATES AS REPRESENTED BY THE SECRETARY OF THE AIR FORCE	
Street Address:	1551 WYOMING BLVD. SE	
Internal Address:	AFNWC/JA	
City:	KIRTLAND AFB	
State/Country:	NEW MEXICO	
Postal Code:	87117	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16001746

CORRESPONDENCE DATA

Fax Number: (505)853-8294

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: 505-846-5172

Email: james.skorich@us.af.mil
Correspondent Name: JAMES M. SKORICH
Address Line 1: 1551 WYOMING BLVD. SE

Address Line 2: AFNWC/JA

Address Line 4: KIRTLAND AFB, NEW MEXICO 87117

ATTORNEY DOCKET NUMBER:	PRS274
NAME OF SUBMITTER:	JAMES M. SKORICH
SIGNATURE:	/James M. Skorich/
DATE SIGNED:	06/06/2018

PATENT 504947884 REEL: 046006 FRAME: 0475

Total Attachments: 8 source=PRS274_Assignment_all_5_inventors#page1.tif source=PRS274_Assignment_all_5_inventors#page2.tif source=PRS274_Assignment_all_5_inventors#page3.tif source=PRS274_Assignment_all_5_inventors#page4.tif source=PRS274_Assignment_all_5_inventors#page5.tif source=PRS274_Assignment_all_5_inventors#page6.tif source=PRS274_Assignment_all_5_inventors#page7.tif source=PRS274_Assignment_all_5_inventors#page8.tif

ASSIGNMENT (Government inventor)

(2042 miant mann)
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 filled as an application for Letters Patent of the United States (Application Serial Number filed). In all I hereby authorize and request AFNWC/JA to insert here in the above parentheses (Application Serial Number, filled) the filling 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, 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
Matthew Squires
SUBSCRIBED AND ACKNOWLEDGED before me by Matthew Squires this
2018, at the city of (Ougle + γ sec in the County o
April 2018, at the city of <u>Albuquerque</u> in the County of <u>Presentlelia</u> and State of <u>New Medica</u> .
1010/5/2018 8 6 1 NO 10 15/2018 20 NO
JEANINNE TORTIZ NOTOTY Public
My Gommission Expires 22/22/30

ASSIGNMENT (Contractor inventor)

Number, as described in invention disclosure PRS 274 as an application for Letters Patent of the United State), and I hereby authorize and re-	ed to an invention under contract/subcontract number Contract entitled "PIEZOELECTRIC ROTARY OPTICAL MOUNT," to be filed es (Application Serial Number, filed quest Air Force Patent Counsel to insert here in the above	
and	ng date and application number of said application when known;	
WHEREAS, Contractor and/or I, ESTEVAN NUNE application for Letters Patent on the aforesaid inventi-	z, has indicated its intention to NOT elect title and NOT file an	
	n, be it known that in recognition of my obligation to the	
	ntract and by agreement, or in consideration of the premises and	
other valuable consideration, I, ESTEVAN NUNEZ, elect	taran da antara da A	
	FERRED, and by these presents do sell, assign, and transfer unto by the Secretary of the Air Force, my entire right, title, and interest,	
	ention disclosure, all subsequent information to support that	
	etters Patent of the United States including all Letters Patent	
· · · · · · · · · · · · · · · · · · ·	-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;		
	al whose duty it is to issue patents, to issue any patent thereon to by the Secretary of the Air Force, and his successors, as assignee of	
	for the sole use for the full term or terms for which said patents	
and any continuations, continuations-in-part, division	s and reissues or extensions thereof are, or may be, granted as	
fully and entirely as the same would have been held b	y me had this Assignment not been made; and ecuting, any and all applications for Letters Patent, and to furnish	
	nich may be necessary or convenient for the preparation, filing, or	
	od that Contractor and/or I, ESTEVAN NUNEZ, shall not be subject to	
any out-of-pocket expense relative to such action.	and the second of the second o	
Contractor joins in and agrees to this assignm	ent and, except for the reservation of any license under the above of the United States, as represented by the Secretary of the Air	
	e world in and to such inventions, and further agrees to furnish to	
	any available information and documents necessary for the timely	
preparation, filing, and prosecution of such applicatio	ns, for Letters Patent.	
	#1/1/2	
	ESTEVAN NUNEZ	
	₩ •	
SUBSCRIBED AND ACKNOWLEDGED before me by Est	TEVAN NUNEZ this 15 15 15 day of	
Beeng lillo and State of Alexa	<u>Mexica</u>	
OFFICIAL SEAL SHERIDAN CHAPMAN NOTARY PUBLIC	Lew Charges	
STATE OF NEW MEXICO		

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
	Ву:	(auxil) fanael)
		(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
), 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.
B. h. Andrews
> presanciases and strates
CHOCPOINCE AND APPAIRANCEMENT Labor was be presented as a second of the
SUBSCRIBED AND ACKNOWLEDGED before me by BENJAMIN WATSON this day of
<u>March</u> 2018, at the city of <u>Tempe</u> in the County of
YY) G.V. CO DO and State of Available and a st
AFYON FAREGHI Notery Public - State of Arizona
Menicopa County
My Commission Expires Notary Public
Applition than the collection than the collection of the collectio

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		Universities Space Research
under contract number: FA9453-13-2-0263	Contractor: ्	Association
	Ву:	Carrier Sander
		(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
Number, as described in it), jointly made or contributed to an invention under contract/subcontract number Contract overtion disclosure PRS 274 entitled "PIEZOELECTRIC ROTARY OPTICAL MOUNT," to be filed as Patent of the United States (Application Serial Number, filed
}, ##	nd I hereby authorize and request Air Force Patent Counsel to insert here in the above
	Serial Number, filed) the filing date and application number of said application when known;
	ictor and/or I, Cots Yararough , has indicated its intention to NOT elect title and NOT file an entention to the aforesaid invention;
NOW, THEREFOR	E, to all whom it may concern, be it known that in recognition of my obligation to the
Government of the United	I States under the above contract and by agreement, or in consideration of the premises and ion, I, Cole YARBROUGH, elect herein to:
 Management of the second of the	LD, ASSIGNED, AND TRANSFERRED, and by these presents do sell, assign, and transfer unto
the Government of the Ur in and to the aforesaid inv aforesaid invention, and t	nited States as represented by the Secretary of the Air Force, my entire right, title, and interest, rention described in the invention disclosure, all subsequent information to support that he resulting application for Letters Patent of the United States including all Letters Patent Continuations, continuations in part, divisions, and reissues or extensions thereof; and all
patent applications claimi	ng priority resulting from the filing of the aforesaid application for patent in the United States
in any jurisdiction through	rout the world, subject to the reservation of any license to which Contractor and/or I, Cou
	ed under the above contract;
the Government of the Ur my entire right, title and i and any continuations, co	IZE AND REQUEST any official whose duty it is to issue patents, to issue any patent thereon to nited States, as represented by the Secretary of the Air Force, and his successors, as assignee of nterest in and to the same, for the sole use for the full term or terms for which said patents ntinuations-in-part, divisions and reissues or extensions thereof are, or may be, granted as
to the control of the	me would have been held by me had this Assignment not been made; and
	execute, and assist with executing, any and all applications for Letters Patent, and to furnish
prosecution of such applic	nd to execute any papers which may be necessary or convenient for the preparation, filing, or sations, except it is understood that Contractor and/or I, COLE YARBROUGH, shall not be subject
	nse relative to such action.
	and agrees to this assignment and, except for the reservation of any license under the above
	assigns to the Government of the United States, as represented by the Secretary of the Air
	and interest throughout the world in and to such inventions, and further agrees to furnish to
	nited States, upon request, any available information and documents necessary for the timely observation of such applications, for Letters Patent.
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	graverii.
	Corlege Commencer Co
	Cole Yarbrough
CHRCERIREN ANN ACKNE	WLEDGED before me by COLE YARRROUGH, this R day of
-711.W.L.	2018, at the city of Aparth in the County of
	and State of 1940 Voye
	ANA CONCEPCION TO A A A A A A A A A A A A A A A A A A
	A Constitution server to the Constitution of t
	Maria Secretary Constitution of the Maria Secretary Fublic

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.

	Universities Space Research
Contractor:	Association
Ву:	(auril fander)
	(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
	By: Date: Printed Name: Title: Business Address:

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

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, Brian Kasch**:

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.

SUBSCRIBED AND ACKNOWLEDGED before me by Brian Kasch this 6th day of April 2018, at the city of Abayerque in the County of Bernallilo and State of New Mexico Notary Public Notary Public Indicated the Mexico Indicated the Indicated th

PATENT REEL: 046006 FRAME: 0484

RECORDED: 06/06/2018