#### 504653573 11/21/2017

### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT4700294

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
ARI D. BROWN	09/19/2017
EMILY M. BARRENTINE	11/21/2017
SHAHID ASLAM	11/15/2017

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#### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	15691109

### **CORRESPONDENCE DATA**

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MILELENE GUNYON **Correspondent Name:** 

NASA GODDARD SPACE FLIGHT CENTER Address Line 1: Address Line 2: OFFICE OF PATENT COUNSEL M/S 140.1

GREENBELT, MARYLAND 20771 Address Line 4:

ATTORNEY DOCKET NUMBER:	GSC-17613-1
NAME OF SUBMITTER:	MILELENE GUNYON
SIGNATURE:	/milelene gunyon/
DATE SIGNED:	11/21/2017

**Total Attachments: 3** 

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# Assignment to the Government (by Government Employee)

Title of Invention:	NANOSTRUCTURED VANADIUM OXIDE UNCOOLED BOLOMETERS AND METHOD OF FABRICATION  ARLD BROWN, EMILY M. BARRENTINE, SHAHID ASLAM				
Inventor(s):					
NASA Case No.:	GSC-17613-1	Application No.*:	15691109	Filing Date*: 8/30/2017	
WHEREAS, the part Government (hereaft Administration;	es to this Assignment s er Government), as rep	and Agreement as presented by the .	e the undersigned inven Administrator of the Nati	tor(s) and the United States anal Aeronautics and Space	
WHEREAS, the mak	ing of this Assignment a	and Agreement is	in accordance with 37 (	FR Part 501; and	
	rsigned inventor(s) has above-entitled inventior		, on the date(s) indicated	f below, an application for United	
Assign to the talentories     America, its territories	Sovernment my (our) fu and possessions, and	ill and exclusive i my (our) entire ri	iovernment, the undersig ight in and to said invent ght, title and interest in a y patent(s) that may issu	ion within the United States of and to said application, and any	
accordance with 37 C amended, if the Gove country, in accordance nonexclusive, irrevoca	FR 501.9(d), including mment chooses not to e with 37 CFR 501.9(d) sble, royalty-free license	rights of priority of file an application and such rights in the invention	in any foreign country, will be subject to the res with power to grant licer	nd to said invention, in onvention of Paris (1883), as (we) may request rights in that ervation to the Government of a ses for all governmental patent which may issue on such	
information to, and (c)	xpense of the Governm to cooperate in any ma this Assignment and A	anner with the Go	te any document for, (b) rvernment in order to alic	to deliver any requested w the Government to protect any	
above when required.	request the attorneys o		9/19/17	plication number and filing date $9/19/17$	
(Signature of Inventor) ARLD, BROWN (Inventor's Typed Name		7684 Blue	ete Assignment Executed) perry Hill Lane, Ellicott ess - Including Country)	(Date Application Executed) City MD 21043	
(Signature of Inventor)		(0)	ite Assignment Executed)	(Date Application Executed)	
EMILY M. BARREN (Inventor's Typed Name,		2298 17th	Street NW Apt. 10 Wa sss - Including Country)		
(Signature of Inventor)		Ti i	de Assignment Executed)	(Date Application Executed)	
SHAHID ASLAM (Inventor's Typed Name)			SE Washington DC 2	0003	
	000 PREVIOUS EDITION				



## Assignment to the Government (by Government Employee)

Title of Invention:	NANOSTRUCTURED VANADIUM OXIDE UNCOOLED BOLOMETERS AND METHOD OF FABRICATION						
Inventor(s):	ARLO BROWN, EMILY M. BARRENTINE, SHAHID ASLAM						
NASA Case No.:	GSC-17613-1	Application No.*:	15691109	Filing Date*:	8/30/2017		
WHEREAS, the part Government (hereaft Administration;	ies to this Assignmer er Government), as i	nt and Agreement are represented by the A	the undersigned inveding the National Investment of the National Investment	antor(s) and the U dional Aeronautic	Inited States s and Space		
WHEREAS, the mak	ing of this Assignmen	nt and Agreement is	in accordance with 37	CFR Part 501; a	nd		
WHEREAS, the unde States Patent on the	rsigned inventor(s) f above-entitled inven	nas (have) executed, tion.	on the date(s) indicat	ted bélow, an app	fication for United		
NOW THEREFORE, 1. Assign to the America, its territorie: corresponding contin	Sovernment my (our) s and possessions, a	) full and exclusive rig nd my (our) entire rig	ght in and to said inve ght, title and interest in	intion within the U rand to said appl	nited States of ication, and any		
<ol> <li>Agree to grant accordance with 37 C amended. If the Gove country, in accordance nonexclusive, irrevocus purposes. The terms invention.</li> </ol>	FR 501.9(d), includir Imment chooses not e with 37 CFR 501.9 Ible, royalty-free lice	ig rights of priority ur to file an application (d), and such rights v nse in the invention v	in any foreign country vill be subject to the re vith power to grant lice	Convention of Pa r. I (we) may requi eservation to the re enses for all gove	ris (1883), as est rights in that Government of a mmental		
Agree, at the e information to, and (c) interest transferred by	to cooperate in any	manner with the Gov	any document for, (tremment in order to a	o) to deliver any n llow the Governm	equested ent to protect any		
*4. Authorize and above when required.	request the attorneys	of record in the app	lication to insert the a	pplication numbe	r and filing date		
(Signeture of Inventor)		(Dei	e Assignment Executed	) (Dete Acolic	ation Executed)		
ARI D. BROWN (Inventor's Typed Name	7684 Blueberry Hill Lane, Ellicott City MD 21043						
(Signature, et i) ventor)	( <b>.</b>		21/2017 e Assignment Executed)		7 ation Executed)		
EMILY M. BARREN (Inventor's Typed Name,			itreet NW Apt. 10 W ss - Including Country)	/ashington DC	20009		
(Signature of Inventor)		/Den	Assignment Executed)	(Date Applic	stion Executed)		
SHAHID ASLAM (Inventor's Typed Name)		406 G. St. S	E Washington DC	• • •			

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## Assignment to the Government (by Government Employee)

Title of Invention:	NANOSTRUCTURED VANADIUM OXIDE UNCOOLED BOLOMETERS AND METHOD OF FABRICATION						
inventor(s):	_ARLD_BROWN, EMILY M_BARRENTINE, SHAHID ASLAM						
NASA Case No.:	GSC-17613-1	Application No.*:	15891109	Filing Date*:	8/30/2017		
WHEREAS, the parti Government (hereaft Administration;							
WHEREAS, the mak	ng of this Assignmen	t and Agreement is	in accordance with	37 CFR Part 501; a	nd		
WHEREAS, the unde States Patent on the			on the date(s) indic	ated below, an app	lication for United		
NOW THEREFORE, 1. Assign to the C America, its territories corresponding continu	Bovernment my (our) and possessions, ar	full and exclusive ri id my (our) entire rip	ght in and to said in pht, title and interes	vention within the U in and to said appl			
<ol> <li>Agree to grant accordance with 37 C amended. If the Gove country, in accordanc nonexclusive, irrevocu purposes. The terms invention.</li> </ol>	rnment chooses not t e with 37 CFR 501.9( able, royalty-free licen	g rights of priority us to file an application d), and such rights tise in the invention	nder the Internation in any foreign coun will be subject to the with power to grant	al Convention of Pa try, I (we) may requ reservation to the icenses for all gove	ris (1883), as lest rights in that Government of a immental		
information to, and (c) interest transferred by		nanner with the Go Agreement.	vernment in order to	allow the Governm	ent to protect any		
(Signature of Inventor)		706	te Assignment Execut	ed) (Date Apolic	sation Executed)		
ARIN BROWN	)	7684 Blueb	erry Hill Lane, Ell ess - <i>Induding Count</i> ry	icott City MD 210			
(Signature of Inventor)		(Da	te Assignment Execut	ed) (Date Applic	ation Executed)		
EMILY M. BARREN (Inventor's Typed Name	}		Street NW Apt. 10 ess - Including Country		20009		
Shahid A.		//Da	le Assignment Execut	in man seem	ation Executed)		
(Signature of Inventor) SHAHID ASLAM (Inventor's Typed Name)	*	406 G. St. S	s Asspriment Execut 3E Washington Di 3s - <i>Including Coun</i> try	C 20003	mante suktrussibilij		

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PATENT REEL: 044194 FRAME: 0629

**RECORDED: 11/21/2017**