504673961 12/06/2017

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JOSEPH G. SMITH, JR.	12/17/2015
CHRISTOPHER J. WOHL, JR.	12/18/2015

RECEIVING PARTY DATA

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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14976700

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ATTORNEY DOCKET NUMBER:	LAR-18585-1
NAME OF SUBMITTER:	YVETTE D. MARDIS
SIGNATURE:	/s/Yvette D. Mardis
DATE SIGNED:	12/06/2017

Total Attachments: 2 source=2191091#page1.tif source=2191091#page2.tif

PATENT 504673961 REEL: 044314 FRAME: 0814



NASA Form 430 12/00 (1.1)

Assignment to the Government (by Government Employee)

Title of Invention:	Hydrogen-Bonding Surfaces for Ice Mitigation					
Inventor(s):	Joseph G. Smith, Jr. and Christopher J. Wohl, Jr.					
NASA Case No.:	LAR-18585-1	Application No.*:	14/976,700	Filing Date*:	December 21, 2015	
		nd Agreement are the un ne Administrator of the N				
WHEREAS, the makin	g of this Assignment a	nd Agreement is in acco	rdance with 37 CFR I	Part 501; and		
WHEREAS, the unders		(have) executed, on the	date(s) indicated bel	ow, an application for U	United States	
Assign to the Gor territories and possess	vernment my (our) full ions, and my (our) enti	oyment by the Governm and exclusive right in an re right, title and interest ny patent(s) that may iss	d to said invention wind in and to said application	thin the United States		
CFR 501.9(d), includin chooses not to file an a 501.9(d), and such right the invention with power practicable, in any fore 3. Agree, at the exp	g rights of priority under application in any foreignts will be subject to the er to grant licenses for ign patent which may in vense of the Governme manner with the Gove	our) full and exclusive for for the International Convig gn country, I (we) may re- e reservation to the Gove all governmental purpos ssue on such invention, nt, (a) to execute any do mment in order to allow	ention of Paris (1883 quest rights in that of ernment of a nonexo ses. The terms of suc coument for, (b) to de), as amended, if the Country, in accordance lusive, irrevocable, royeth reservation will appear the reservation will appear to the country requested information will appear the country requested information will appear the country requested information will be considered in the country requested information will be considered in the country requested in the country re	Sovernment with 37 CFR alty-free license in ear, where ormation to, and	
		record in the application	to insert the applicati	on number and filling d	ate above when	
Joseph G. Smith, dr. (Inventor's Typed Nam		208 Smith	ate Assignment Exec Drive, Smithfield, Iress - Including Cou		7-29/J cation Executed)	
(Signature of Inventor) Christopher J. Wohl (Inventor's Typed Nam	, Jr.	5831 Woo	ate Assignment Exec dside Lane, Portsn dress - Including Cou	nouth, VA 23703	cation Executed)	
(Signature of Inventor)		7,50	ate Assignment Exec	uted) (Date Appli	cation Executed)	
(Inventor's Typed Nam	e)	(Mailing Add	lress - Including Cou	ntry)		

PREVIOUS EDITIONS ARE OBSOLETE

PATENT REEL: 044314 FRAME: 0815

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Assignment to the Government (by Government Employee)

		forth mars .	TATABONERAN TOOLEAN TERRAN	2	
Title of Invention:	Hydrogen-Bonding	Surfaces for Ice Mi	tigation		
Inventor(s):	Joseph G. Smith, Jr.	and Christopher J.	Wehi, Jr.		
NASA Case No.:	LAR-18585-1	Application No.*;	14/976,700	Filing Date*:	December 21, 20
WHEREAS, the parties (hereafter Government	s to this Assignment and), as represented by the	Agreement are the un Administrator of the N	dersigned inventor(s) am ational Aeronautics and t	d the United States Space Administrati	Government on;
WHEREAS, the makin	g of this Assignment and	i Agreement is in acco	rdança with 37 CFR Part	501; and	
WHEREAS, the under Patent on the above-e	signed inventor(s) has (f ntitled invention.	nave) executed, on the	date(s) indicated below,	an application for C	Inited States
 Assign to the Go authories and possess 	morning that the marganese	nd exclusive right in an a right, title and interest	ent, the undersigned hen d to said invention within in and to said application we therefrom.	THE CLITTER STRIPE	of America, its onding
CFR 501.9(d), including thooses not to like an a 501.9(d), and such right the invention with now in the invention in the invent	g rights of priority under application in any foreign we will be exhibed to the	the international Convictional Conviction (we) may represent to the Governmental purpose i governmental purpose	eign rights in and to said ention of Paris (1883), as quest rights in that coun enment of a nonexclush ses. The terms of such re	try, in accordance tree, irrevocable, roy:	with 37 CFR With 17 CFR Wiy-free license in
3. Agree, at the exp (c) to cooperate in any Assignment and Agree	manner with the Govern	, (a) io execute any do iment in order to allow	cument for, (b) to defiver the Government to prote	any requested info of any interest tran	ormation to, and sferred by this
*4. Authorize and re- equired.	quest the attorneys of re	cord in the application	to insert the application n	umber and illing d	ate above when
Signature of Inventor) Ioseph G. Smith, Jr.	and the second s		ite Assignment Executed Drive, Smithfield, VA		ration Executed)
Inventor's Typed Nam	3)		iress - including Country)		
1	- material professional profess		2/18/15 He Assignment Executed	× [2/18]	
Signature of Invegitor)	the state of the s		ne Assignment Executed	(Date Applic	valion Executed)
Christopher J. Woll	, Jr.		dside Lane, Portsmout		
(Inventor's Typed Nam		(walling Add	iress - Including Country)		***************************************
Signature of Inventor)		700	ale Assignment Executed	n (Dale Appli	cation Executed)

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(Mailing Address - Including Country)

PATENT REEL: 044314 FRAME: 0816

RECORDED: 12/06/2017

(Inventor's Typed Name)

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