503791766 04/20/2016

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3838413

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JOHN W. CONNELL	10/04/2010
JOHN W. HOPKINS	10/06/2010
NATIONAL INSTITUTE OF AEROSPACE ASSOCIATES	10/12/2010
OAK RIDGE ASSOCIATED UNIVERSITIES, INC.	10/11/2010

RECEIVING PARTY DATA

Name:	UNITED STATES OF AMERICA AS REPRESENTED BY THE ADMINISTRATOR OF THE NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
Street Address:	300 E. STREET SW
City:	WASHINGTON
State/Country:	D.C.
Postal Code:	20546

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	14666998	

CORRESPONDENCE DATA

Fax Number: (757)864-9190

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: (757) 864-5821

Email: yvette.d.mardis@nasa.gov

Correspondent Name: NASA LANGLEY RESEARCH CENTER

Address Line 1: OFFICE OF CHIEF COUNSEL

Address Line 2: MAIL STOP 30

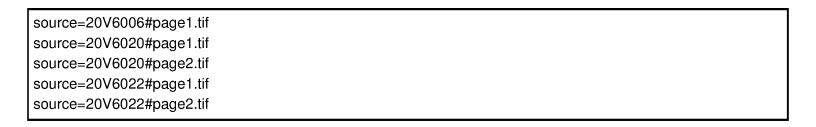
Address Line 4: HAMPTON, VIRGINIA 23681-2199

ATTORNEY DOCKET NUMBER:	LAR-17769-2
NAME OF SUBMITTER:	YVETTE D. MARDIS
SIGNATURE:	/s/ Yvette D. Mardis
DATE SIGNED:	04/20/2016

Total Attachments: 5

PATENT REEL: 038332 FRAME: 0958

503791766



PATENT REEL: 038332 FRAME: 0959



Assignment to the Government (by Government Employee)

Title of Invention:	Modification of Surface Energy via Direct Laser Ablative Surface Patterning					
Inventor(s):	Christopher J. Wohl, J	fr., Marcus A. Bel	cher, John W. Connell	, John W. Hopl	ins	
NASA Case No.:	LAR-17769-1 A	Application No.*:	12/894,279	Filina Date*	9/30/2010	
WHEREAS, the par Government (herea Administration,	ties to this Assignment a fter Government), as rep	and Agreement ar presented by the A	e the undersigned inve administrator of the Na	intoria) and the	I Initari Wiatan	
WHEREAS, the ma	king of this Assignment	and Agreement is	in accordance with 37	CFR Part 501;	and	
WHEREAS, the und	lersigned inventor(s) has above-entitled invention	s (have) executed				
a. Assign to the America, its territoria	, in consideration of emp Government my (our) is se and possessions, and nuation or divisional app	all and exclusive r t my (our) entire ri	ght in and to said inve	ntion within the	United States of plication, and any	
win 37 CFN 301 30 Government choose accordance with 37 rrevocable, royalty-f such reservation will	If to the Government my I), including rights of prices is not to file an application CFR 501.9(d), and such fee license in the inventi- appear, where practical	only under the Interior of in any foreign of inghts will be subject to be in any foreign to ble, in any foreign	imational Convention (ountry, I (we) may requect to the reservation I grant licenses for all go patent which may issu	of Paris (1683), uest rights in the to the Governm overnmental puries on such inver-	as amended, if the at country, in ent of a nonexclusive poses, The terms of ation.	
nominamon w, and u	expense of the Governm i) to cooperate in any m y this Assignment and A	anner with the Ge	e any document for, (b vernment in order to a) to deliver any llow the Govern	requested ment to protect any	
*4. Authorize and above when required	request the attorneys o	of record in the ap	ofication to insert the a	pplication numb	er and filing date	
John Co	rnell		D/04/2010 & Assignment Executed)			
Signature of Inventor)					cation Executed)	
ohn W. Connell Inventor's Typed Name		104 Marlin (Circle, Yorktown, VA	236952		
Marie Comment of the	ry. Simbolis Au		35 - Including Country)			
Litter Comment St.			7-6-10			
Mignature of Inventor)		(Del	e Assignment Executed)		cation Executed)	
ohn W. Hopkins Inventor's Typed Name	rk		oint Drive, Yorktown.	VA 23692		
ananataran mengentah di Kabupatèn dan Kabupatèn Salah Sa Salah Salah Sa	98	(maiing Addre	ss - Including Country)			
Signature of Inventor)		(Oati	Assignment Executed)	(Dale Applic	nation Executed)	
nvenior's Typed Name	}	(Malling Addre.	ss - Including Country)	· · · · · · · · · · · · · · · · · · ·		

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PATENT REEL: 038332 FRAME: 0960



Assignment to the Government and License to the Small Entity Contractor

Vssociates
ereinafter the Contractor), having elected not to retain visions of 35 U.S.C. 202 to a SUBJECT INVENTION and (Hereinafter a contract) between the Contractor and reinafter the Government), the SUBJECT INVENTION
a Direct Luser Ablative Surface Patterning
Employer Oak Ridge Associated Universities, Inc.
Employer National Institute of Aerospace Assoc.
Employer NASA Langley Research Center
Employer
Employer
appropriate),
(5);
Contractor Case No.
Application Serial No.
ha Grivarnmant

WHEREAS, the Government as represented by the Administrator of the National Aeronautics and Space Administration (NASA), is desirous of acquiring an assignment of the SUBJECT INVENTION identified above and disclosed in said application and other rights and benefits herein granted;

NASA FORM 1639 OCT 02 PREVIOUS EDITIONS ARE OBSOLETE.

PAGE 1 OF 2 PAGES

Assignment to the Government (continued)

NOW THEREFORE, in consideration of the contract and other benefits attributable to the contractual relationship, the Contractor hereby assigns and transfers to the Government the full and exclusive right in and to said SUBJECT INVENTION within the United States of America, its territories and possession, and the entire right, title, and interest in and to said patent application, and any applications continuing therefrom and such Letters Patent as may issue therefrom.

The Contractor also grants to the Government, an assignment of the foreign rights in and to the said invention including rights of priority under the International Convention of Paris (1883), as amended.

The Contractor hereby covenants that it has the right to grant the foregoing assignments.

The Contractor further agrees to make, execute and/or deliver to the Government, upon request, but at the expense of the Government, any and all data, drawings, notes, reports, information, papers, documents, affidavits, statements, or other items necessary in the prosecution of said application and of any applications continuing therefrom or applications for reissue or reexamination of said Letters Patent, or of any foreign patent application or any application continuing therefrom, and to assist the Government in every way in protecting said invention as may be requested, provided that any expense arising through such assistance will be paid by the Government.

License to the Contractor

FURTHER, the Contractor hereby retains, pursuant to the Federal Acquisition Regulation clause 52.227-11 entitled "Patent Rights - Retention by the Contractor (Short Form)," a revocable, nonexclusive, royalty-free license throughout the world in the SUBJECT INVENTION in each patent application filed in any country on the invention and in any resulting patent in which the Government acquires title. The license extends to the Contractor's domestic subsidiaries and affiliates, if any, within the corporate structure of which the Contractor is a part and includes the right to grant sublicenses of the same scope to the extent the Contractor was legally obligated to do so at the time the contract was awarded. The license is transferable only with the approval of the National Aeronautics and Space Administration except when transferred to the successor of the part of the Contractor's business to which the invention pertains. The Contractor's domestic license may be revoked or modified by the National Aeronautics and Space Administration to the extent necessary to achieve the expeditious practical application of the SUBJECT INVENTION pursuant to an application for an exclusive license submitted in accordance with the Department of Commerce Patent Licensing Regulations. This ficense will not be revoked in that field of use or the geographical areas in which the Contractor has achieved practical application and continues to make the benefits of the invention reasonably accessible to the public. The license in any foreign country may be revoked or modified at the discretion of the National Aeronautics and Space Administration to the extent the Contractor, its licensees, or its domestic subsidiaries or affiliates have failed to achieve practical application in that foreign country. Before revocation or modification of the license, the National Aeronautics and Space Administration will furnish the Contractor a written notice of its intention to revoke or modify the license, and the Contractor will be allowed 30 days (or such other time as may be authorized by the National Aeronautics and Space Administration for good cause shown by the Contractor) after the notice to show cause why the license should not be revoked or modified. The Contractor has the right to appeal, in accordance with the procedures set forth in the Department of Commerce Paterics SAAR Licensing Regulations, from any decision concerning the revocation or modification of its license

The Co	ontractor hereby executes this instrument by its 【2 ⁺¹ OCTOBER、こう1○	legally authoric	zed representative on	S SCHILLING TO
Name	KARLL. DREWS	Signature	Kallela	CONT. COLOR
Title	VISE RESIDENT OF OFFICE	ELANS ale Office)	ina dipandidi hipi yanini kasinini diba ya dipiki wa diki a uzu ya waza a uza a uza a uza a za za za za za za	ner i a tilabana i tarja sama manang

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PAGE 2 OF 2 PAGES



Assignment to the Government and License to the Small Entity Contractor

Contractor/	Grantee: Oak Ridge Associated Universities,	Inc.		
Incorporate	d Under the Laws of:			
Address:	dress: P.O. Box 117			
	Oak Ridge, TN 37831-0117			
title, or here made in the the Governi	the above named Contractor/Grantee (Hereby elects not to retain title, under the provise performance of work under a contract/grantent of the United States of America (Hereby theing identified as:	ions of 35 U. nt (Hereinafte	S.C. 202 to a SUBJECT INVENTION r a contract) between the Contractor and	
Title of Inve	ention: Modification of Surface Energy via I	Direct Laser Al	blative Surface Patterning	
inventors:				
1. Christopi	her J. Wohl, Jr.	Employer	Oak Ridge Associated Universities, Inc.	
2. Marcus /	\. Belcher	Employer	National Institute of Aerospace Assoc.	
3. John W.	Connell, and John W. Hopkins	Employer	NASA Langley Research Center	
		Employer		
5.		Employer		
This assign:	ment is applicable to INVENTORS (Check a	appropriate).		
X (1).	· · · · · · · · · · · · · · · · · · ·	(5);		
Contract No	NNH06CC03B	Province of the Control of the Contr		
NASA Case	No. <u>LAR-17769-1</u>	Contractor	Case No.	
	Executed on	and the state of t		
Contractor is	s a (Check one):			
Sm	all Business			
Col	lege or University			
X Nor	nprofit Organization			
	the transpirate	a Cousenm	ant	

Assignment to the Government

WHEREAS, the Government as represented by the Administrator of the National Aeronautics and Space Administration (NASA), is desirous of acquiring an assignment of the SUBJECT (NVENTION identified above and disclosed in said application and other rights and benefits herein granted;

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PAGE 1 OF 2 PAGES

PATENT REEL: 038332 FRAME: 0963

Assignment to the Government (continued)

NOW THEREFORE, in consideration of the contract and other benefits attributable to the contractual relationship, the Contractor hereby assigns and transfers to the Government the full and exclusive right in and to said SUBJECT INVENTION within the United States of America, its territories and possession, and the entire right, title, and interest in and to said patent application, and any applications continuing therefrom and such Letters Patent as may issue therefrom.

The Contractor also grants to the Government, an assignment of the foreign rights in and to the said invention including rights of priority under the International Convention of Paris (1883), as amended.

The Contractor hereby covenants that it has the right to grant the foregoing assignments.

The Contractor further agrees to make, execute and/or deliver to the Government, upon request, but at the expense of the Government, any and all data, drawings, notes, reports, information, papers, documents, affidavits, statements, or other items necessary in the prosecution of said application and of any applications continuing therefrom or applications for reissue or reexamination of said Letters Patent, or of any foreign patent application or any application continuing therefrom, and to assist the Government in every way in protecting said invention as may be requested, provided that any expense arising through such assistance will be paid by the Government.

License to the Contractor

FURTHER, the Contractor hereby retains, pursuant to the Federal Acquisition Regulation clause 52,227-11 entitled "Patent Rights - Retention by the Contractor (Short Form)," a revocable, nonexclusive, royalty-free license throughout the world in the SUBJECT INVENTION in each patent application filed in any country on the invention and in any resulting patent in which the Government acquires title. The license extends to the Contractor's domestic subsidiaries and affiliates, if any, within the corporate structure of which the Contractor is a part and includes the right to grant sublicenses of the same scope to the extent the Contractor was legally obligated to do so at the time the contract was awarded. The license is transferable only with the approval of the National Aeronautics and Space Administration except when transferred to the successor of the part of the Contractor's business to which the invention pertains. The Contractor's domestic license may be revoked or modified by the National Aeronautics and Space Administration to the extent necessary to achieve the expeditious practical application of the SUBJECT INVENTION pursuant to an application for an exclusive license submitted in accordance with the Department of Commerce Patent Licensing Regulations. This license will not be revoked in that field of use or the geographical areas in which the Contractor has achieved practical application and continues to make the benefits of the invention reasonably accessible to the public. The license in any foreign country may be revoked or modified at the discretion of the National Aeronautics and Space Administration to the extent the Contractor, its licensees, or its domestic subsidiaries or affiliates have failed to achieve practical application in that foreign country. Before revocation or modification of the license, the National Aeronautics and Space Administration will furnish the Contractor a written notice of its intention to revoke or modify the license, and the Contractor will be allowed 30 days (or such other time as may be authorized by the National Aeronautics and Space Administration for good cause shown by the Contractor) after the notice to show cause why the license should not be revoked or modified. The Contractor has the right to appeal, in accordance with the procedures set forth in the Department of Commerce Patent Licensing Regulations, from any decision concerning the revocation or modification of its license.

Tue Co	ontractor hereby executes this instrument by its	legally authori	ized representa	dive on
*******	October 11, 2010			
Name	Ivan & Boatner	Signature	3A.	Burn
Tille	Vice President and General Counsel			
	(Corpor	ate Office)		and and and the first of an an arising the same and an and an arising the same and an arising the same and are
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