## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT2927606

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
KEITH L. GORDON	10/25/2010
PETER T. LILLEHEI	10/22/2010
JOYCELYN S. HARRISON	11/18/2010
NATIONAL INSTITUE OF AEROSPACE ASSOCIATES	10/06/2010

### **RECEIVING PARTY DATA**

Name:	UNITED STATE OF AMERICA AS REPRESENTED BY 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:	14253317		

## **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:** 7578645821

**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-17689-2
NAME OF SUBMITTER:	YVETTE D. MARDIS
SIGNATURE:	/s/ Yvette D. Mardis
DATE SIGNED:	07/07/2014

**Total Attachments: 4** source=20D1321#page1.tif

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> PATENT REEL: 033251 FRAME: 0937



# Assignment to the Government (by Government Employee)

Title of Invention:	Negative Dielectric Constant Material Based on Ion Conducting Materials					
inventor(s):	Keith L. Gordon, Jin I	Ho Kang, Cheol Park, Peter T. Lillehei and Joycelyn S. Harrison				
NASA Case No.:	LAR-17689-1 A	Application No.*: 12/393,289 Filing Date*:09/29/10				
		and Agreement are the undersigned inventor(s) and the United States presented by the Administrator of the National Aeronautics and Space				
WHEREAS, the ma	king of this Assignment	and Agreement is in accordance with 37 CFR Part 501; and				
	dersigned inventor(s) ha e above-entitled inventio	s (have) executed, on the date(s) indicated below, an application for United on.				
<ol> <li>Assign to the America, its territori</li> </ol>	Government my (our) fi es and possessions, and	ployment by the Government, the undersigned hereby: full and exclusive right in and to said invention within the United States of d my (our) entire right, title and interest in and to said application, and any plication(s) and any patent(s) that may issue therefrom.				
with 37 CFR 501.9( Government choose accordance with 37 irrevocable, royalty-	d), including rights of pries not to file an application CFR 501.9(d), and such free license in the inventer.	y (our) full and exclusive foreign rights in and to said invention, in accordance ority under the International Convention of Paris (1883), as amended. If the on in any foreign country, I (we) may request rights in that country, in a rights will be subject to the reservation to the Government of a nonexclusivation with power to grant licenses for all governmental purposes. The terms of able, in any foreign patent which may issue on such invention.				
information to, and		ment, (a) to execute any document for, (b) to deliver any requested nanner with the Government in order to allow the Government to protect any Agreement.				
*4. Authorize an above when require		of record in the application to insert the application number and filing date				
Kely	X	10-25-10				
(Signature of Inventor	)	(Date Assignment Executed) (Date Application Executed)				
Keith L. Gordon		31 Peterborough Drive, Hampton, VA 23666				
(Inventor's Typed Nar	ne)	(Mailing Address - Including Country)				
	5	10/22/10)				
(Signature of Inventor	1	(Date Assignment Executed) (Date Application Executed)				
Peter T. Lillehei	,					
(Inventor's Typed Nan	ne)	108 Paula Court, Yorktown, VA 23693 (Mailing Address - Including Country)				
(Signature of Inventor,	}	(Date Assignment Executed) (Date Application Executed)				
Joycelyn S. Harriso	n	6104 North 22nd Road, Arlington, VA 22205				
(Inventor's Typed Nan		(Mailing Address - Including Country)				

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PATENT REEL: 033251 FRAME: 0938



Patent Application

## Assignment to the Government (by Government Employee)

Title of invention:	Negative Dislectric Constant Material Based on Ion Conducting Materials					
inventor(s):	Keith L. Gordon, Ji	n Ho Kang, Cheol Park, Peter T. Lillehei	and Joycelyn S.	Harrison		
NASA Case No.:	LAR-17689-1	Application No.*: 1 <u>2/393</u> ,289	Filing Date*:	09/29/10		
		nt and Agreement are the undersigned inv represented by the Administrator of the N				

Administration;

WHEREAS, the making of this Assignment and Agreement is in accordance with 37 OFR Part 501; and

WHEREAS, the undersigned inventor(s) has (have) executed, on the date(s) Indicated below, an application for United States Patent on the above-entitled invention.

NOW THEREFORE, in consideration of employment by the Government, the undersigned hereby:

- Assign to the Government my (our) full and exclusive right in and to said invention within the United States of America, its territories and possessions, and my (our) entire right, title and interest in and to said application, and any corresponding continuation or divisional application(s) and any patent(s) that may issue therefrom.
- 2. Agree to grant to the Government my (our) full and exclusive foreign rights in and to said invention, in accordance with 37 CFR 501.9(d), including rights of priority under the international Convention of Paris (1883), as amended, if the Government chooses not to file an application in any foreign country, I (we) may request rights in that country, in accordance with 37 CFR 501.9(d), and such rights will be subject to the reservation to the Government of a nonexclusive, irrevocable, royalty-free license in the invention with power to grant licenses for all governmental purposes. The terms of such reservation will appear, where practicable, in any foreign patent which may leave on such invention.
- Agree, at the expense of the Government, (s) to execute any document for, (b) to deliver any requested
  information to, and (c) to cooperate in any manner with the Government in order to allow the Government to protect any
  interest transferred by this Assignment and Agreement.
- \*4. Authorize and request the attorneys of record in the application to insert the application number and filling date above when required.

Julil	10-25-10	
(Signeture of Inventor)	(Date Assignment Executed)	(Date Application Executed)
Keith L. Gordon	31 Peterborough Drive, Ham	oton. VA 23666
(Invanior's Typed Name)	(Mailing Address - Including Country)	
ATTER C	10/22/10	
(Signature of Inventor)	(Date Assignment Executed)	(Dete Application Executed)
Peter T. Lillehei	108 Paula Court, Yorktown,	VA 23693
(Inventor's Typed Name))	(Meiling Address - Including Country)	
-traba-Sit	11/18/10	
(Signetyre of infrentor)	(Dafa Assignment Executed)	(Date Application Executed)
Joycelyn S. Harrison	6104 North 22nd Road, Arlin	eton. VA 22205
(Inventor's Typed Name)	(Maliing Address - Including Country)	

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PATENT

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## Assignment to the Government and License to the Small Entity Contractor

Contractor/	Grantee:	National I	nstitute of	Aerospace Ass	ociates (NIAA	A)
Incorporate	d Under th	ne Laws of	£			
Address: 100 Exploration Way						
Hampton, VA 23666						
title, or here made in the the Governi and contract	eby elects of performation of the performation of the performant o	not to retaince of wore United Sentified as:	in title, under a tates of A	der the provis contract/grar merica (Herei	ions of 35 U. It (Hereinafte nafter the Go	Contractor), having elected not to retain S.C. 202 to a SUBJECT INVENTION or a contract) between the Contractor and overnment), the SUBJECT INVENTION
Title of Inve	ntion:	Negative D	ielectric Co	onstant Materia	l Based on Ior	Conducting Materials
Inventors:						
1. Keith L.	Gordon, Pe	ter T. Lillel	hei		Employer	NASA Langley Research Center
2. Joycelyn	S. Harrison	i			Employer	NASA Langley Research Center
3. Jin Ho K	ang, Cheol	Park			Employer	National Institute of Aerospace Associates
4					Employer	
_					Employer	
This assignr	ment is ap	plicable to	INVENTO	ORS ( <i>Check a</i>	ppropriate),	
[] (1),		(2),	(3),	<b>(4)</b> ,	<b>(5)</b> ;	
Contract No	NCC1-0	2043				
NASA Case No. LAR-17689-1		***************************************	Contractor Case No.			
Application Executed on				Application	Serial No.	
Contractor is	a (Check	one):				
Sma	all Busines	ss				
Coll	ege or Un	iversity				
Non	profit Orga	anization				

## 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 INVENTION identified above and disclosed in said application and other rights and benefits herein granted;

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## 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.

	ractor hereby executes this instrument b	y its legally authorized	d representative on
	oth OctoBER, 2010		
Name	KAALL DREW	Signature	1000
Title	VICE PRESIDENT OF OF	remin on (	
	(0	Corporate Office)	
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**RECORDED: 07/07/2014**