Form <sup>1</sup>	PTO	)-1595	(Rev.	. 03-09	<del>)</del> )	
OMB	No.	0651	-0027	(exp.	03/31/2009	)
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U.S.	DEPAR	RTMENT	r of	COMMER	CE
United	States	Patent :	and T	rademark	Office

RECORDATION FORM COVER SHEET  PATENTS ONLY  ARL 10-21				
To the Director of the U.S. Patent and Trademark Office: Pleas	e record the attached documents or the new address(es) below.			
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General Technical Services, LLC	Name: The United States of America as represented by the			
	Internal Address: <u>Secretary of the Army</u>			
Additional name(s) of conveying party(ies) attached? Yes X No  3. Nature of conveyance/Execution Date(s):	Street Address: 101 Army Pentagon			
Execution Date(s) 1/28/2011				
Assignment Merger				
Security Agreement Change of Name	City: Washington			
Joint Research Agreement	State: DC			
Government Interest Assignment	Country: USA Zip: 20310			
Executive Order 9424, Confirmatory License				
Other	Additional name(s) & address(es) attached? Yes No			
A. Patent Application No.(s)  13/471,490	document is being filed together with a new application.  B. Patent No.(s)			
Additional numbers att	ached? Yes No			
5. Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved:			
Name: U.S. Army Research Laboratory	7. Total fee (37 CFR 1.21(h) & 3.41) \$_40.00			
Internal Address: Attn: RDRL-LOC-I/Alan I, Kalb	[32] A with a size of the transfer of the deposit apparent			
	Authorized to be charged to deposit account  Enclosed			
Street Address: 2800 Powder Mill Road	None required (government interest not affecting title)			
City: Adelphi	8. Payment Information			
State: Maryland Zip: 20783				
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Fax Number: 301-394-3972	•			
Email Address: nadine.l.loman.civ@mail.mil	Authorized User Name Alan I. Kalb			
9. Signature: Han S. Zelle	1 d 31, 2012			
Signature	Date			
Alan I. Kalb, 52,486  Name of Person Signing	Total number of pages including cover sheet, attachments, and documents:  4			

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:
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**PATENT REEL: 028724 FRAME: 0374** 

# ASSIGNMENT TO THE GOVERNMENT and LICENSE TO THE CONTRACTOR

Contractor / Grantee:	General To	echnical Service	s, LLC	
Incorporated Under the I	Laws of:	New Jersey		
Address: 31	00 Rte. 138, Wa	all, NJ 07719		
WHEREAS the above na not to retain title, or here "Patent Rights—Retention INVENTION made in the Contract) between the Co (Hereinafter the Government)	by elects not to a on by the Contra e performance of ontractor and the	retain title, unde ctor (Long Form f work under a c Government of	r the provisions a)(Jan 1997)" to contract / grant of the United State	of FAR 52.227-12 of a SUBJECT (Hereinafter the tes of America
Title of Invention: FUI				
BYLAYER GRAPHENE	HETEROGEN	EOUS WITH L	EAD-ZIRCON	ATE-TITANATE
Inventors: 1. <u>Dr. Osama M. Na</u>	yfeh	Employer	General Tecl	nnical Services, LLC
2. Dr. James Wilson				
3. <u>Dr. Stephen Kilpa</u>	trick	Employer	Army Resear	rch Laboratory
4. Dr. Madan Dubey				
5. <u>Dr. Ronald Polcav</u>	vich	Employer	Army Resear	ch Laboratory
This assignment is applica		• • •	•	
$\sqrt{(1)}, \qquad \sqrt{(2)},$	□ <b>(3)</b> ,	□ <b>(4)</b> ,	□ <b>(5)</b> :	
Contract/P.O. NoARL Case NoARL	, 10-21	Contractor Application	Case No. <u>W15</u> on Serial No	5P7T-06-D-E402 13/471,490
Application Executed on	5/15/	/2012		
(*Data not knov	vn at execution .	may be added la	ter for better id	lentification.)

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#### Assignment to the Government

WHEREAS, the Government as represented by the Secretary of the Army and his successors in office, is desirous of acquiring an assignment of the SUBJECT INVENTION identified above and disclosed in said application and other rights and benefits herein granted;

#### 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 possessions, 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 SUBJECT INVENTION including the 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.

### License to the Contractor

FUTHER, the Contractor hereby retains, pursuant to FAR 52.227-12, 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 Army 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 Army 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 Licensing Regulations. This license will not be revoked in that field of use or the geographic 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 Army 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 Army will furnish the Contractor with 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 Army 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.

Page 2 of 3

PATENT REEL: 028724 FRAME: 0376

## Assignment to the Government (continued)

The Contractor hereby executes this instrument by its legally authorized representative:
Name Parto J. M. Givre Signature B. She J. (Printed or Typed Name)
Title Contracts Almi Date: 7/17/12
· *********
State of: New Server ss
On the above date Sweet Medical Medica
Les Flores
(SEAL)  My Commission expires on

ly Commission Expires 3/27/2017

Page 3 of 3

**PATENT** 

REEL: 028724 FRAME: 0377