501832754 02/27/2012

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Sergei V. Kalinin	02/10/2012
Nancy J. Dudney	02/23/2012
Stephen Jesse	01/31/2012

RECEIVING PARTY DATA

Name:	UT-Battelle, LLC
Street Address:	One Bethel Valley Road
Internal Address:	4500N, MS-6258
City:	Oak Ridge
State/Country:	TENNESSEE
Postal Code:	37831-6258

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13291480

CORRESPONDENCE DATA

 Fax Number:
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Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

via US Mail.

Correspondent Name: Joseph A. Marasco
Address Line 1: One Bethel Valley Road
Address Line 2: 4500N, MS-6258

Address Line 4: Oak Ridge, TENNESSEE 37831-6258

ATTORNEY DOCKET NUMBER: 2329.1 UTB

NAME OF SUBMITTER: Karen E. Bowman

PATENT

REEL: 027764 FRAME: 0352

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Total Attachments: 5

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PATENT REEL: 027764 FRAME: 0353 Form **PTO-1595** (Rev. 07/05) OMB No. 0651-0027 (exp. 6/30/2008)

RECORDATION FORM COVER SHEET PATENTS ONLY To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below. 1. Name of conveying party(ies) 2. Name and address of receiving party(ies) Sergei V. Kalinin Name: UT-Battelle, LLC Nancy J. Dudney Internal Address: 4500N, MS-6258 Stephen Jesse Additional name(s) of conveying party(ies) attached? 🔛 Yes 🗹 No 3. Nature of conveyance/Execution Date(s): Street Address: One Bethel Valley Road Execution Date(s) 02/23/2012 Merger ✓ Assignment City: Oak Ridge State: TN Government Interest Assignment Zip:37831-6258 Country: USA Executive Order 9424, Confirmatory License Other Additional name(s) & address(es) attached? L Yes V No 4. Application or patent number(s): This document is being filed together with a new application. A. Patent Application No.(s) B. Patent No.(s) 13/291,480 Additional numbers attached? Yes V No 5. Name and address to whom correspondence 6. Total number of applications and patents concerning document should be mailed: involved: 1 Name: Joseph A. Marasco **7. Total fee** (37 CFR 1.21(h) & 3.41) \$ 40.00 Internal Address: UT-Battelle, LLC Authorized to be charged to deposit account **Enclosed** Street Address: One Bethel Valley Road None required (government interest not affecting title) 4500N, MS-6258 8. Payment Information City: Oak Ridge a. Credit Card Last 4 Numbers _____ State: TN Zip:37831-6258 Expiration Date _____ Phone Number: (865) 574-4178 b. Deposit Account Number 13-1958 Fax Number: (865) 574-0381 Authorized User Name Karen E. Bowman Email Address: marascoja@ornl.gov 9. Signature: 02/27/2012 /Joseph A. Marasco/ Signature Date Total number of pages including cover Joseph A. Marasco, Reg. No. 32,798 sheet, attachments, and documents: Name of Person Signing

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to: Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

REEL: 027764 FRAME: 0354

ASSIGNMENT

WHEREAS, we the below-named inventors whose residences are as stated below, have an interest in an invention entitled:

REAL SPACE MAPPING OF IONIC DIFFUSION AND ELECTROCHEMICAL ACTIVITY IN ENERGY STORAGE AND CONVERSION MATERIALS

(hereinafter referred to as "Subject Invention") for which are described in United States Patent Application No. 13/291,480 filed on November 8, 2011, and

WHEREAS, UT-BATTELLE, LLC, a limited liability company of the State of Tennessee, having an office at One Bethel Valley Road, P. O. Box 2008, Oak Ridge, Tennessee 37831-6258, hereinafter referred to as "ASSIGNEE," is desirous of acquiring our entire right, title and interest of the undersigned in the same;

NOW, THEREFORE, in accordance with the terms of our employment agreement with ASSIGNEE and for good and valuable consideration, the receipt of which is hereby acknowledged, we hereby assign and transfer to ASSIGNEE and its successors in interest our entire right, title and interest in the Subject Invention to all rights of priority thereto pursuant to the International Convention for the Protection of Industrial Property, and in any Letters Patent on the Subject Invention that may be granted in the United States of America and in any and all foreign countries, including any and all Letters Patent that are divisions, reissues, continuations, substitutions or extensions of any Letters Patent or patent applications therefor on the Subject Invention.

We hereby authorize and request the Commissioner of the United States Patent and Trademark Office and the officials of any and all foreign countries to issue any and all of said Letters Patent, when granted, to the ASSIGNEE.

Further, we hereby agree to communicate to said ASSIGNEE or its representatives any facts known to us respecting said Subject Invention, to testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, substitution, renewal and reissue applications, to execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said ASSIGNEE, and to make all rightful oaths and generally do everything possible to aid said ASSIGNEE and its representatives to obtain and enforce proper protection for said Subject Invention in the United States of America and in any and all foreign countries.

We further agree that the terms, covenants and conditions of this assignment shall inure to the benefit of ASSIGNEE, its successors, assigns, and legal representatives, and shall be binding on us, our heirs, legal representatives, and assigns.

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PATENT REEL: 027764 FRAME: 0355

Full Name of First In	
Signature:	face Date: 02/10/2012
Residence:	1925 Winding Ridge Trail, Knoxville, Tennessee 37922
State of Tennessee County of Rock On this 10 and State aforesaid, a	day of, 2012, before me, a Notary Public in and for the County appeared SERGEI V. KALININ to me personally known to be the same person whose
name is subscribed t	to the foregoing instrument, and acknowledged that he executed said instrument as his and for the uses and purposes therein expressed.
WITNESS n	ny hand and seal the day and year last above given.
	8.
300 see 44	Notary Public J. Saidder
SEAL	
My Commission Exp	Dires: We Commission Exting Tourism Account 44 4844

Full Name of First Inventor:	Nancy J. Dudney		
Signature: <u>Jano</u> J	Dudny	Date: Jeb o	13,2012
Residence: 4634	South Monticello Driv	e, Knoxville, Tennessee	37922
State of Tennessee) County of Roにより)			
On this 25 day of and State aforesaid, appeared I name is subscribed to the fore free and voluntary act and for the forest and the subscribes are the forest and the subscribes are subscribes and subscribes are subscribes are subscribes are subscribes and subscribes are subscribes are subscribes are subscribes are subscribes are subscribes are subscribes and subscribes are subscr	NANCY J. DUDNEY going instrument, and a	to me personally known acknowledged that he ex	Public in and for the County to be the same person whose xecuted said instrument as his
WITNESS my hand an	d seal the day and year	last above given.	
, 03 8 8 8 8 8 8 8 9 9	M Marie) Sudde.	
	Notary Public) oudden	
	a a		
SEAL			
My Commission Expires:	My Consission Exp	ess Thoroday, August 14, 201	

Full Name of First Inventor	Stephen Jesse			
Signature:	·	Date:	01.31.12	
Residence: 1733	Dancing Light Lane	, Knoxville, Ten	nessee 37922	
State of Tennessee) County of Roswe)				
On this 31 day of and State aforesaid, appeared name is subscribed to the forefree and voluntary act and for	STEPHEN JESSE going instrument, a	to me persona nd acknowledge	d that he executed said inst	person whose
WITNESS my hand a	nd seal the day and y	ear last above g	iven.	
	Notary Public) Said	dia	
SEAL				
My Commission Expires:	W Commission Exp	Fee Thursday, Augu	W 14, 2012.]	

My Commission Expires: