PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Bruce A. Moyer	12/04/2012
Laetitia H. Delmau	12/04/2012
Peter V. Bonnesen	12/04/2012

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: 2

Property Type	Number
Application Number:	12268189
Patent Number:	8158088

CORRESPONDENCE DATA

Fax Number: 8655740381

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

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ATTORNEY DOCKET NUMBER: 2123

NAME OF SUBMITTER: Karen E. Vance

PATENT

REEL: 029407 FRAME: 0194

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Total Attachments: 5

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PATENT REEL: 029407 FRAME: 0195 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) Bruce A. Moyer Name: UT-Battelle, LLC Laetitia H. Delmau Internal Address: 4500N, MS-6258 Peter V. Bonnesen 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) 12/04/2012 Merger ✓ Assignment City: Oak Ridge State: TN Government Interest Assignment Country: USA Zip:37831-6258 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) 12/268,189 8,158,088 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: Edna I. Gergel **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) 574-0393 b. Deposit Account Number 13-1958 Fax Number: (865) 574-0381 Authorized User Name Karen E. Bowman Email Address: gergelei@ornl.gov 9. Signature: /Edna I. Gergel/ 12/05/2012 Signature Date Total number of pages including cover Edna I. Gergel, Reg. No. 50819 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: 029407 FRAME: 0196

ASSIGNMENT

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

Extractant Compositions for Co-Extracting Cesium and Strontium, a Method of Separating Cesium and Strontium from an Aqueous Feed, and Calixarene Compounds

(hereinafter referred to as "Subject Invention") for which are described in United States Patent Application No. 12/268,189 filed on November 10, 2008, 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.

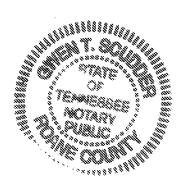
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Full Name of First Inven	tor: Bruce A. Moyer		
Signature:	- Andrews	Date: 04, 2012	
Residence:	112 Westview Lane, Oak Ric	dge, Tennessee 37830	
State of Tennessee County of Kanne)		
and State aforesaid, appe name is subscribed to the	ared BRÜCE A. MÖYER 1	112, before me, a Notary Public in and for the to me personally known to be the same personacknowledged that he executed said instrume herein expressed.	on whose
WITNESS my h	and and seal the day and year	r last above given.	
	Notary Public	Scuddle	
SEAL			
My Commission Expires:	My Commission Expires M	Sonday, September 12, 2016.	

Full Name of First Inve	}		12/04/2012
Residence:	121 Normandy Road, Oak	Ridge, Tenne	ssee 37830
State of Tennessee	>		

On this _____ day of ________, 2012, before me, a Notary Public in and for the County and State aforesaid, appeared LÆTITIA H. DELMAU to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he executed said instrument as his free and voluntary act and for the uses and purposes therein expressed.

WITNESS my hand and seal the day and year last above given.



Notary Public

SEAL

My Commission Expires:

My Commission Expires Monday, September 12, 2018.

Full Name of First Inventor: Peter V. Bonnesen
Signature: <u>12-4-70/2</u> Date: 12-4-70/2
Residence: 406 Moser Lane, Knoxville, Tennessee 37934-4043
State of Tennessee) County of Road ()
On this day of
WITNESS my hand and seal the day and year last above given.
Notary Public

Tray Compression Expires Monday, September 12, 2018.

SEAL

My Commission Expires: