### PATENT ASSIGNMENT

# Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
Jeffrey A. Chapman	04/16/2012
John E. Gunning	03/27/2012
Daniel F. Hollenbach	03/23/2012
Larry J. Ott	04/02/2012

## **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:	13288168

# **CORRESPONDENCE DATA**

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via US Mail.

Correspondent Name: Colin L. Cini

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Address Line 4: Oak Ridge, TENNESSEE 37831-6258

ATTORNEY DOCKET NUMBER: 2457.1

NAME OF SUBMITTER: Karen E. Vance

501888824 REEL: 028049 FRAME: 0255

<u>PATENT</u>

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# Total Attachments: 6 source=2457.1 Assignment#page1.tif source=2457.1 Assignment#page2.tif source=2457.1 Assignment#page3.tif source=2457.1 Assignment#page4.tif source=2457.1 Assignment#page5.tif source=2457.1 Assignment#page6.tif

PATENT REEL: 028049 FRAME: 0256 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) Jeffrey A. Chapman Name: UT-Battelle, LLC John E. Gunning Daniel F. Hollenbach Internal Address: 4500N, MS-6258 Larry J. Ott 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) 04/16/2012 Merger ✓ Assignment City: Oak Ridge State: TN Government Interest Assignment Country: <u>USA</u> 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) 13/288,168 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:Colin L. Cini **7. Total fee** (37 CFR 1.21(h) & 3.41) \$ 40.00 Internal Address: UT-Battelle, LLC Authorized to be charged by credit card 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) 574-4179 b. Deposit Account Number 13-1958 Fax Number: (865) 574-0381 Authorized User Name Karen E. Bowman Email Address: cinicl@ornl.gov 9. Signature: 04/16/2012 /Colin L. Cini/ Signature Date Total number of pages including cover Colin L. Cini, Reg. No. 51,563 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: 028049 FRAME: 0257

## **ASSIGNMENT**

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

### X-Ray Backscatter Imaging of Nuclear Materials

(hereinafter referred to as "Subject Invention") for which are described in United States Patent Application No. 13/288,168 filed on November 3, 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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Full Name of First Inventor: Signature:	Chapanine .		
Residence: 392	Axton Drive, Knoxville, To	ennessee 379	
and State aforesaid, appeared whose name is subscribed to as his free and voluntary act a	I JEFFREY A. CHAPMA the foregoing instrument,	AN to me pe and acknowl es therein exp	
	Notary Public	<u>Lead Cla</u>	
SEAL  My Commission Expires:		**************************************	

Full Name of First Inve	ntor:/ John E. Gunning
Signature:	Date: 2012/03/27
Residence:	107 Greywood Place, Oak Ridge, Tennessee 37830
State of Tennessee County of	)
name is subscribed to t	day of
WITNESS my	hand and seal the day and year last above given.
TENNESSEE TO THE POPULATION OF	Notary Public
My Commission Expire	s:
	My Commission Expires Sunday, May 31, 2015

Full Name of First Inventor: Daniel F. Hollenbach
Signature: Daniel My Holle Josh Date: 3/23/2012
Residence: 221 Briarcliff Avenue, Oak Ridge, Tennessee 37830
State of Tennessee ) County of )
On this 23 day of, 2012, before me, a Notary Public in and for the County and State aforesaid, appeared <b>DANIEL F. HOLLENBACH</b> 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.
Pamela Sue Stegall  Notary Public  STATE OF TENNESSEE NOTARY PUBLIC SEAGE Expires Macon SEAGE Expires Maco

My Commission Expires: 3(25)2015

Full Name of First Inventor:	Larry J. Ott		
Signature:	2/. GH	Date:	2 April 2012
Residence: 608	Ensley Drive, Knox	cville, Tennessee 3	7920-911 <b>8</b>
State of Tennessee ) County of 民さなみと )			
and State aforesaid, appeare	d LARRY J. OTT t g instrument, and acl	o me personally k knowledged that h	e, a Notary Public in and for the County nown to be the same person whose name e executed said instrument as his free and
WITNESS my hand	and seal the day and	l year last above g	iven.
SEAL	Notary Public	<u>0. 2au</u>	
My Commission Expires:	My Commission E	chies Thursday, Augu	