PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Lynn A. Boatner	06/30/2011
John T. Mihalczo	06/30/2011

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:	13101741

CORRESPONDENCE DATA

Fax Number: (865)574-0381

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

Phone: (865) 574-4178 Email: bowmanke@oml.gov 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:	2479

NAME OF SUBMITTER: Karen E. Bowman

Total Attachments: 4

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REEL: 026528 FRAME: 0384

PATENT 501582036

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: Pleas	e record the attached documents or the new address(es) below.		
1. Name of conveying party(ies)	2. Name and address of receiving party(ies)		
Lynn A. Boatner John T. Mihalczo	Name: UT-Battelle, LLC		
	Internal Address: 4500N, MS-6258		
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) 06/30/2011			
Assignment Merger	City: Oak Ridge		
Security Agreement Change of Name			
Joint Research Agreement	State: TN		
Government Interest Assignment Executive Order 9424, Confirmatory License	Country: <u>USA</u> <u>Zip: 37831-6258</u>		
Executive Order 9424, Confirmatory License			
Other	Additional name(s) & address(es) attached? Yes No		
4. Application or patent number(s): A. Patent Application No.(s)	document is being filed together with a new application. B. Patent No.(s)		
13/101,741			
Additional numbers att	ached? Yes VNo		
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 by credit card		
	Authorized to be charged to deposit account		
Street Address: One Bethel Valley Road	Enclosed		
4500N, MS-6258	None required (government interest not affecting title)		
City: Oak Ridge	8. Payment Information		
State: TN Zip:37831-6258	a. Credit Card Last 4 Numbers Expiration Date		
Phone Number: <u>(865)</u> 574-4178	b. Deposit Account Number _13-1958		
Fax Number: (865) 574-0381	· ·		
Email Address: marascoja@ornl.gov	Authorized User Name Karen E. Bowman		
9. Signature: /Joseph A. Marasco/	06/30/2011		
Signature	Date		
Joseph A. Marasco, Reg. No. 32,798 Name of Person Signing	Total number of pages including cover sheet, attachments, and documents:		

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: 026528 FRAME: 0385

ASSIGNMENT

WHEREAS, we the below-named inventors whose residences and post office are as stated below, have invented certain new and useful improvements in

HIGH SPATIAL RESOLUTION PARTICLE DETECTORS

(hereinafter referred to as "Subject Invention") for which are described in United States Patent Application No. 13/101,741 filed on May 5, 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 the entire right, title and interest of the undersigned in the Subject Invention and to any Letters Patent that may be granted therefore in the United States of America and in any and all foreign countries.

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 to ASSIGNEE 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 applications therefore 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.

1

PATENT REEL: 026528 FRAME: 0386

Full name of inventor: Lynn A. Boatner
Signature: Jynn a. Boalne Date: 30 June 2011
Residence: 112 Greystone Drive, Oak Ridge, Tennessee 37830
Post Office Address: 112 Greystone Drive, Oak Ridge, Tennessee 37830
State of Tennessee) County of 图 (COUNT)
On this day of day of 2011, before me, a Notary Public in and for the County and State aforesaid, LYNN A. BOATNER, appeared 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.
TENNESSEE Notary Public VE COMMIN
SEAL
SEAL
My Commission Expires: My Commission Expires Thursday, August 14, 2012.

Full name of inventor:	John T. Mihalczo
Signature:	Wilneley Date: 6/30/2011
V Residence:	114 Lehigh Lane, Oak Ridge, Tennessee 37830
Post Office Address:	114 Lehigh Lane, Oak Ridge, Tennessee 37830
State of Tennessee County of <u>Roque</u>	
and State aforesaid, a whose name is subscrias his free and voluntar	day of, 2011, before me, a Notary Public in and for the Countreared JOHN T. MIHALCZO to me personally known to be the same personal to the foregoing instrument, and acknowledged that he executed said instrumely act and for the uses and purposes therein expressed. The provided Hamber of the uses and purposes therein expressed.
WH NESS BLY	nanu and seal the day and year last above given.
	Notary Public
SEAL .	
My Commission Expire	S. Wy Comprise to English the second