

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Kirk T Lowe	04/02/2009
RECEIVING PARTY DATA	
Name:	University of Tennessee Research Foundation
Street Address:	1534 White Ave., Suite 403
City:	Knoxville
State/Country:	TENNESSEE
Postal Code:	37996
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	12400081
CORRESPONDENCE DATA	
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Address Line 4:	Oak Ridge, TENNESSEE 37831-6258
ATTORNEY DOCKET NUMBER:	2040.1 UTRF
NAME OF SUBMITTER:	Karen E. Bowman
<p>Total Attachments: 4 source=2040.1 UTRF Assignment#page1.tif source=2040.1 UTRF Assignment#page2.tif source=2040.1 UTRF Assignment#page3.tif</p>	

CH \$40.00 12400081

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)

Kirk T. Lowe

Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies)

Name: Univeristy of Tennessee Research Foundation

Internal Address: _____

Street Address: 1534 White Ave., Suite 403

City: Knoxville

State: TN

Country: USA Zip: 37996

Additional name(s) & address(es) attached? Yes No

3. Nature of conveyance/Execution Date(s):

Execution Date(s) 4/2/2009

- Assignment Merger
 Security Agreement Change of Name
 Joint Research Agreement
 Government Interest Assignment
 Executive Order 9424, Confirmatory License
 Other _____

4. Application or patent number(s):

This document is being filed together with a new application.

A. Patent Application No.(s)

12/400,081

B. Patent No.(s)

Additional numbers attached? Yes No

5. Name and address to whom correspondence concerning document should be mailed:

Name: Joseph A. Marasco

Internal Address: UT-Battelle, LLC

Street Address: One Bethel Valley Road

4500N, MS-6258

City: Oak Ridge

State: TN Zip: 37831-6258

Phone Number: (865) 574-4178

Fax Number: (865) 574-0381

Email Address: marascoja@ornl.gov

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00

- Authorized to be charged by credit card
 Authorized to be charged to deposit account
 Enclosed
 None required (government interest not affecting title)

8. Payment Information

a. Credit Card Last 4 Numbers _____
Expiration Date _____

b. Deposit Account Number 13-1958

Authorized User Name Joseph A. Marasco

9. Signature:

/Joseph A. Marasco/

Signature

4/7/2009

Date

Joseph A. Marasco, Reg. No. 32798

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents:

4

ASSIGNMENT

WHEREAS, I the below-named inventor whose residence and post office is stated below, have invented certain new and useful improvements in;

HEREBY sell, assign and transfer to the University of Tennessee Research Foundation (UTRF), a non-profit corporation of Tennessee having a place of business at 1534 White Avenue, Suite 403, Knoxville, Tennessee 37996, its successors, assigns and legal representatives, the entire right, title and interest for the United States and all foreign countries, in and to any and all improvements which are disclosed in the application for United States Letters Patent which has been executed by the undersigned concurrently herewith, and which is entitled

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and in and to said application and all divisional, continuation, substitute, renewal, reissue, and other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of said improvements, including the right to claim in other countries the right of priority of any of said applications under the (Paris) International Convention; and in and to all original and reissued patents which have been or shall be issued in the United States and all foreign countries on said improvements;

AGREE THAT said Assignee may apply for and receive Letters Patent for said improvements in its own name, and that when requested, without charge to but at the legal expense of said Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all divisional, continuation, substitute, renewal, reissue, and all other patent applications on any and all said improvements, execute all rightful oaths, Assignments, Powers of Attorney and other papers, communicate to said Assignee, its successors, assigns and all legal representatives, all facts known to the undersigned relating to said improvements and the history thereof and generally do everything possible which said Assignee, its successors, assigns and legal representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements and all applications for patents and all patents on said improvements, in said Assignee, its successors, assigns and legal representatives;

COVENANT WITH said Assignee, its successors, assigns and legal representatives that no Assignment, grant, mortgage, license or other Agreement affecting the rights and property herein conveyed have been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned; and

AUTHORIZE Assignee, its employees, its successors, assigns and all legal representatives to enter in the blank spaces provided below the Serial Number and filing date of the United States Patent Application to which this document applies, when that information becomes known.

Patent Application Serial Number: 12/400,081

Patent Application Filing Date: 3/9/2009

Full name of inventor: Kirk T. Lowe

Inventor's Signature: K.T. Lowe Date: 4/2/09

Resident: 2304 Cecil Avenue Knoxville TN 37917

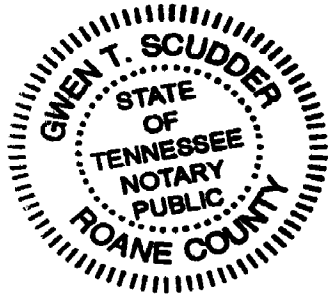
Post Office Address: 2304 Cecil Avenue Knoxville TN 37917

Citizenship: United States

State of Tennessee
County of Knox

This 2 day of APRIL, 2009, before me, a Notary Public in and for the County and State aforesaid, **KIRK T. LOWE** appeared before me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he executed said instrument as my free and voluntary act and for the uses and purposes therein expressed.

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



Gwen T. Scudder
Notary Public

My Commission Expires: August 14, 2012

SEAL