PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:		NEW ASSIGNMENT					
NATURE OF CONVEYANCE:		ASSIGNMENT					
CONVEYING PARTY DATA							
Name Execution Date							
Edward Chaum				04/01/2010			
RECEIVING PARTY DATA							
Name:	University of	University of Tennessee Research Foundation					
Street Address:	1534 White A	1534 White Ave., Suite 403					
City:	Knoxville						
State/Country:	TENNESSEE	TENNESSEE					
Postal Code:	37996						
PROPERTY NUMBERS Total: 1							
Property Type			Number				
Application Number: 12		12052	052992				
Application Number: 12052992 8652902 CORRESPONDENCE DATA 7							
Fax Number: (865)574-0381							
Correspondence will be sent via US Mail when the fax attempt is unsuccessful.							
Phone: (865) 574-0393				\$40.00			
Email: bowmanke@orn Correspondent Name: Edna I. Gergel			-	E			
Address Line 1: One Bethel Valley Road				Ĕ			
Address Line 2: 4500N, MS-625			-				
Address Line 4: Oak Ridge, TENNESSEE 37831-6258							
ATTORNEY DOCKET NUMBER:			1572 UTRF				
NAME OF SUBMITTER:			Karen E. Bowman				
Total Attachments: 4							
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3. Nature of conveyance/Execution Date(s): Street Address: 1534 White Ave, Suite 403 Execution Date(s): Execution Date(s): Execution Date(s): Merger Assignment Image: Change of Name Joint Research Agreement Change of Name Government Interest Assignment City: Knowille State: TN Country: USA A Application or patent number(s): This document is being filed together with a new application A. Patent Application No.(s) This document is being filed together with a new application 12:052,992 Additional numbers attached? Yes Additional numbers attached? Yes Ne 5. Name and address to whom correspondence concerning document should be mailed: 6. Total number of applications and patents involved: 1 Name: Edna I. Gergel Authorized to be charged by credit card Internal Address: <u>UT-Batelle, LLC</u> Authorized to be charged to deposit account State: TN Zip:37831-6258 Phone Number: (a65) 574-0393 Fax Number: (a65) 574-0393 Fax Number: (a65) 574-0393 Authorized User Name Joseph A. Marasco 9. Signature: /Edna I. Gergel/ 04/26/2010 Signature: /Edna I. Gergel/ 04/26	RECORDATION FORM COVER SHEET PATENTS ONLY					
Edward Chaum Name: University of Tennessee Research Foundation Internal Address:	To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.					
Execution Date(s) <u>04/01/2010</u> Assignment Assignment Joint Research Agreement Government Interest Assignment City: Knoxville State: TN Country: USA Application or patent number(s): A. Patent Application No.(s) 12/052.992 Additional numbers attached? Yes Assignment Internal Address to whom correspondence concerning document should be mailed: Name: Ednal. Gergel Internal Address: UT-Battelle, LLC Internal Address: City: 37831-6258 City: Cadditoral numbers State: TN Zip:37831-6258 Phone Number: Zip:37831-6258 Signature:		Name: Univeristy of Tennessee Research Foundation				
Security Agreement Change of Name Joint Research Agreement City: Knoxville Government Interest Assignment State: TN Country: USA Zip:37996 Additional name(s) & address(es) attached? Yes 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) 12052,992 Additional numbers attached? Yes Ame: Edna I. Gergel 6. Total number of applications and patents 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 by credit card ✓ Authorized to be charged by credit card Authorized to be charged by credit card ✓ Authorized to be charged by credit card Authorized to be charged to deposit account State: TN Zip:37831-6258 Phone Number: (#85) 574-0381 B. Payment Information Fax Number: (#85) 574-0381 Authorized User Name Joseph A. Marasco 9. Signature: ////////////////////////////////////	3. Nature of conveyance/Execution Date(s): Execution Date(s) 04/01/2010					
□ Executive Order 9424, Confirmatory License Country: USA Zip: 37996 □ Other Additional name(s) & address(es) attached? Yes ✓ 4. Application or patent number(s): A. Patent Application No.(s) This document is being filed together with a new application 8. Patent Application No.(s) 12/052,992 Additional numbers attached? Yes ✓ Additional numbers attached? Yes ✓ No S. Name and address to whom correspondence concerning document should be mailed: 6. Total number of applications and patents involved; 1 Name: Ednal. Gergel 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 □ None required (government interest not affecting ti Gity: Oak Ridge 8. Payment Information a. Credit Card Last 4 Numbers	Security Agreement Change of Name					
4. Application or patent number(s):	Executive Order 9424, Confirmatory License	Country: USA Zip: <u>37996</u>				
5. Name and address to whom correspondence concerning document should be mailed: 6. Total number of applications and patents involved:	A. Patent Application No.(s) 12/052,992	document is being filed together with a new application. B. Patent No.(s)				
Internal Address: UT-Battelle, LLC Authorized to be charged by credit card	5. Name and address to whom correspondence	6. Total number of applications and patents				
Street Address: One Bethel Valley Road 4500N, MS-6258 City: Oak Ridge State: TN Zip:37831-6258 Phone Number: (865) 574-0393 Fax Number: (865) 574-0381 Email Address: gergelei@ornl.gov 9. Signature: /Edma I. Gergel/ Oate		7. Total fee (37 CFR 1.21(h) & 3.41) \$ <u>40.00</u>				
4500N, MS-6258 Image: State: TN Zip:37831-6258 State: TN Zip:37831-6258 Phone Number: (865) 574-0393 a. Credit Card Last 4 Numbers Fax Number: (865) 574-0393 b. Deposit Account Number _13-1958 Fax Number: (865) 574-0381 Authorized User Name Joseph A. Marasco 9. Signature: /Edna I. Gergel/ 04/26/2010 Signature Date	Internal Address: UT-Battelle, LLC					
City: Oak Ridge 8. Payment Information State: TN Zip:37831-6258 Phone Number: (865) 574-0393 a. Credit Card Last 4 Numbers Fax Number: (865) 574-0381 b. Deposit Account Number _13-1958 Fax Number: (865) 574-0381 Authorized User Name 9. Signature: /Edna I. Gergel/ Od/26/2010 Date		Enclosed None required (government interest not affecting title)				
State: TN Zip:37831-6258 Phone Number: (865) 574-0393 Fax Number: (865) 574-0381 Email Address: gergelei@ornl.gov 9. Signature: /Edna I. Gergel/ VEdna I. Gergel/ 04/26/2010 Signature Date		8. Payment Information				
Fax Number: (865) 574-0381 Email Address: gergelei@ornl.gov 9. Signature: /Edna I. Gergel/ VEdna I. Gergel/ 04/26/2010 Signature Date	·					
Fax Number: (865) 574-0381 Authorized User Name Joseph A. Marasco Email Address: gergelei@ornl.gov Authorized User Name Joseph A. Marasco 9. Signature: /Edna I. Gergel/ 04/26/2010 Signature Date	Phone Number: (865) 574-0393	b. Deposit Account Number 13-1958				
Email Address: gergelei@ornl.gov	Fax Number: (865) 574-0381					
/Edna I. Gergel/ 04/26/2010 Signature Date	Email Address: gergelei@ornl.gov	Authorized Oser Marine <u>Joseph A. Marasco</u>				
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Zana n. dorgon, nog. nog. nog. do or do da	Edna I. Gergel, Reg. No. 50819	Total number of pages including cover \int_{A}				
Name of Person Signing sheet, attachments, and documents: Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:		sheet, attachments, and documents:				

PATENT REEL: 024285 FRAME: 0213

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 an filing date of the United States Patent Application to which this document applies, when that information becomes known.

PATENT REEL: 024285 FRAME: 0214 Patent Application Serial Number: 12/052,992

Patent Application Filing Date: March 21, 2008

PATENT REEL: 024285 FRAME: 0215

Full name of inventor: Edward Chaum

	- Ch / M	4/1/2010				
Inventor's Signature:	A View	Date:Date:				
Resident: 6415 River T	ide Drive, Memphis, Tennessee	e 38120				
Post Office Address: 6415 River Tide Drive, Memphis, Tennessee 38120						
Citizenship: US						

State of Tennessee County of Roane

This day of day of , 2010, before me, a Notary Public in and for the County and State aforesaid, EDWARD CHAUM 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.

NotaryPublic No Commission Expires: May 11, 2011

