

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT								
NATURE OF CONVEYANCE:	ASSIGNMENT								
CONVEYING PARTY DATA									
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Nagraj S. Kulkarni</td> <td>03/05/2013</td> </tr> <tr> <td>Mirosław S. Gruszkiewicz</td> <td>03/05/2013</td> </tr> <tr> <td>Boyd M. Evans III</td> <td>03/21/2013</td> </tr> </tbody> </table>		Name	Execution Date	Nagraj S. Kulkarni	03/05/2013	Mirosław S. Gruszkiewicz	03/05/2013	Boyd M. Evans III	03/21/2013
Name	Execution Date								
Nagraj S. Kulkarni	03/05/2013								
Mirosław S. Gruszkiewicz	03/05/2013								
Boyd M. Evans III	03/21/2013								
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									
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13724489</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13724489				
Property Type	Number								
Application Number:	13724489								
CORRESPONDENCE DATA									
Fax Number:	8655740381								
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>									
Phone:	(865) 574-4178								
Email:	vanceke@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:	2623								
NAME OF SUBMITTER:	Karen E. Vance								
Total Attachments: 5									

CH \$40.00 13724489

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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)
 Nagraj S. Kulkarni
 Mirosław S. Gruszkiewicz
 Boyd M. Evans, III

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

2. Name and address of receiving party(ies)
 Name: UT-Battelle, LLC
 Internal Address: 4500N, MS-6258
 Street Address: One Bethel Valley Road
 City: Oak Ridge
 State: TN
 Country: USA Zip: 37831-6258

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

3. Nature of conveyance/Execution Date(s):
 Execution Date(s) 03/21/2013

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)
13/724,489

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 Karen E. Bowman

9. Signature: _____ /Joseph A. Marasco/ _____ 04/02/2013
 Signature Date

Joseph A. Marasco, Reg. No. 32,798
 Name of Person Signing

Total number of pages including cover sheet, attachments, and documents: 5

ASSIGNMENT

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

Method and Apparatus for Controlling Stoichiometry in Multicomponent Materials

(hereinafter referred to as "Subject Invention") for which are described in United States Patent Application No. 13/724,489 filed on December 21, 2012, 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.

Full Name of Inventor: Nagraj S. Kulkarni

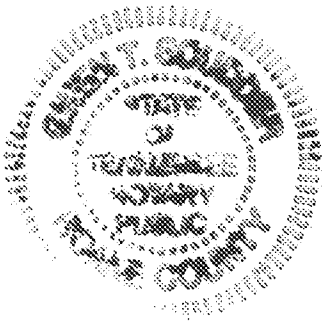
Signature: [Handwritten Signature] Date: March 5, 2013

Residence: 9635 Cedar Valley Way, Knoxville, Tennessee 37931

State of Tennessee)
County of Rowe)

On this 5 day of March, 2013, before me, a Notary Public in and for the County and State aforesaid, appeared **NAGRAJ S. KULKARNI** 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.



Doreen J. Scudder
Notary Public

SEAL

My Commission Expires:

My Commission Expires Monday, September 12, 2016.

Full Name of Inventor: Miroslaw S. Gruskiewicz

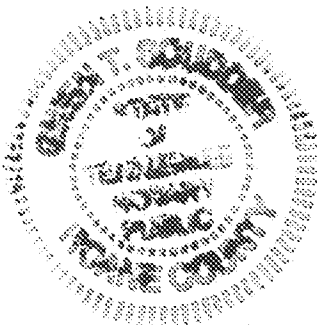
Signature: M. Gruskiewicz Date: 03-05-2013

Residence: 1600 Cheney Road, Knoxville, Tennessee 37922

State of Tennessee)
County of Rowan)

On this 5 day of March, 2013, before me, a Notary Public in and for the County and State aforesaid, appeared **MIROSLAW S. GRUSZKIEWICZ** 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.



Diana J. Scudder
Notary Public

SEAL

My Commission Expires:

My Commission Expires Monday, September 12, 2016.

Full Name of Inventor: Boyd M. Evans, III

Signature: Boyd M. Evans III Date: 3-21-2013

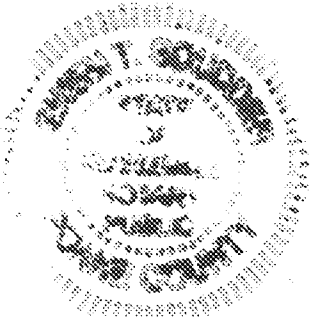
Residence: 949 West Outer Drive, Oak Ridge, Tennessee 37830

State of Tennessee)
County of Rowe)

On this 21 day of March, 2013, before me, a Notary Public in and for the County and State aforesaid, appeared **BOYD M. EVANS, III** 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.

James J. Sudder
Notary Public



SEAL

My Commission Expires:

My Commission Expires Monday September 12, 2016.