

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT4040336

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
HUIMIN LUO	08/02/2016
BRUCE A. MOYER	08/02/2016
SHENG DAI	08/02/2016
RECEIVING PARTY DATA	
Name:	UT-Battelle, LLC
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Internal Address:	4500N, MS-6258
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State/Country:	TENNESSEE
Postal Code:	37831-6258
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15135753
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<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
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Address Line 4:	OAK RIDGE, TENNESSEE 37831-6258
ATTORNEY DOCKET NUMBER:	3247.1 (UTB)
NAME OF SUBMITTER:	KAREN E. VANCE
SIGNATURE:	/KE Vance/
DATE SIGNED:	09/07/2016
Total Attachments: 3	
source=3247.1 UTB Assignment#page1.tif	
source=3247.1 UTB Assignment#page2.tif	

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)

Huimin Luo
Bruce A. Moyer
Sheng Dai

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) 08/02/2016

- 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)

B. Patent No.(s)

15/135,753

Additional numbers attached? Yes No

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

Name: Edna I. Gergel

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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. Vance

9. Signature:

/Edna I. Gergel/
Signature

09/07/2016
Date

Edna I. Gergel, Reg. No. 50819
Name of Person Signing

Total number of pages including cover sheet, attachments, and documents: 3

ASSIGNMENT

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

Methods for Liquid Extraction of Rare Earth Metals Using Ionic Liquids

(hereinafter referred to as "Subject Invention") for which are described in United States Patent Application No. 15/135,753 filed on April 22, 2016, 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.

Name of Inventor: **Huimin Luo**

Signature: Huimin Luo Date: 8-2-16

Residence: 698 Brochardt Boulevard, Knoxville, Tennessee 37934

Name of Inventor: **Bruce A. Moyer**

Signature: Bruce A. Moyer Date: 2-Aug-2016

Residence: 112 Westview Lane, Oak Ridge, Tennessee 37830

Name of Inventor: **Sheng Dai**

Signature: Sheng Dai Date: 8-2-16

Residence: 698 Brochardt Boulevard, Knoxville, Tennessee 37934