# PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

| SUBMISSION TYPE:      | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT     |

# **CONVEYING PARTY DATA**

| Name                   | Execution Date |
|------------------------|----------------|
| David L West           | 10/14/2008     |
| Frederick C Montgomery | 10/14/2008     |
| Timothy Armstrong      | 11/06/2008     |

#### **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: | 12111641 |  |

# **CORRESPONDENCE DATA**

Fax Number: (865)574-0381

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

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Correspondent Name: Joseph A. Marasco

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Address Line 4: Oak Ridge, TENNESSEE 37831-6258

ATTORNEY DOCKET NUMBER: 1762.1

NAME OF SUBMITTER: Karen E. Bowman

**Total Attachments: 5** 

PATENT REEL: 021815 FRAME: 0250

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> PATENT REEL: 021815 FRAME: 0251

#### 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) 2. Name and address of receiving party(ies) David L. West Name: UT-Battelle, LLC Frederick C. Montgomery Internal Address: 4500N, MS-6258 Timothy Armstrong 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) 11/6/2008 ✓ Assignment Merger City: Oak Ridge J Security Agreement \_\_\_ Change of Name State: TN\_\_\_\_ Government Interest Assignment **Zi**p:37831-6258 Country: USA Executive Order 9424, Confirmatory License Other Additional name(s) & address(es) attached? Yes Vo 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) 12/111,641 Additional numbers attached? Yes V No 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 Enclosed Street Address: One Bethel Valley Road None required (government interest not affecting title) 4500N, MS-6258 8. Payment Information City: Oak Ridge a. Credit Card Last 4 Numbers \_\_\_\_\_ Zip:37831-6258 State: TN Expiration Date Phone Number: (865) 574-4178 b. Deposit Account Number 13-1958 Fax Number: (865) 574-0381 Authorized User Name Joseph A. Marasco Email Address: marascoja@ornl.gov 9. Signature: /Joseph A. Marasco/ 11/11/2008 Date Signature Total number of pages including cover Joseph A. Marasco, Reg. No. 32798 sheet, attachments, and documents: Name of Person Signing

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

PATENT

REEL: 021815 FRAME: 0252

#### **ASSIGNMENT**

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

#### DEVICE AND METHOD FOR DETECTING SULFUR DIOXIDE AT HIGH TEMPERATURES

(hereinafter referred to as "Subject Invention") for which are described in United States Patent Application No. 12/111,641 filed on April 29, 2008, 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 therefor 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 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.

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| Full name of inventor:                             | David L. West  |
|--|--|
| Signature: Oa                                      | 12 West Date: 10/14/08   |
| Residence:   | 790 Emory Valley Road, Apt. 322, Oak Ridge, Tennessee 37830  |
| Post Office Address:                               | 790 Emory Valley Road, Apt. 322, Oak Ridge, Tennessee 37830  |
| State of Tennessee<br>County of <u>アゥ</u> ムハイ      | )<br>)   |
| and State aforesaid, ap<br>name is subscribed to t | day of Oto Dec, 2008, before me, a Notary Public in and for the County peared DAVID L. WEST to me personally known to be the same person whose he foregoing instrument, and acknowledged that he executed said instrument as his nd for the uses and purposes therein expressed. |
| WITNESS my   | hand and seal the day and year last above given.   |
| MINIMIN.   |  |

My Commission Expires:

My Commission Expires June 5, 2010

| Full name of inventor:                              | Free         | lerick C. Montgomery           |                  |  |
|---|--------------|--------------------------------|------------------|--|
| Signature: Frederick                                | c.           | montgomery                     | Date:            | 10-14-08   |
| Residence:  | 102          | Halsted Court, Oak Ridge, T    | ennessee         | 37830  |
| Post Office Address:                                | 102          | Halsted Court, Oak Ridge, T    | ennessee`        | 37830  |
| State of Tennessee<br>County of <b>Rogne</b>        | )            |                                |                  |  |
| and State aforesaid, appe<br>person whose name is s | arec<br>subs | FREDERICK C. MONTO             | GOMERY rument, a | e, a Notary Public in and for the County of to me personally known to be the same and acknowledged that he executed said es therein expressed. |
| WITNESS my h  | and          | and seal the day and year last | above gi         | ven.   |
| William F. There                                    |              |                                |                  |  |

My Commission Tuning June 5, 2010

Docket No. 1762.1

| Full name of inventor:                             | Timothy Armstrong  |
|--|--|
| Signature: Lux                                     | HRAET Date: /1-6-08  |
| Residence:   | 150 Quail Hollow Lane, Clinton, Tennessee 37716  |
| Post Office Address:                               | 150 Quail Hollow Lane, Clinton, Tennessee 37716  |
| State of Tennessee<br>County of                    |  |
| and State aforesaid, app<br>whose name is subscrib | day of, 2008, before me, a Notary Public in and for the County peared TIMOTHY ARMSTRONG to me personally known to be the same person red to the foregoing instrument, and acknowledged that he executed said instrument y act and for the uses and purposes therein expressed. |

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

Notary Public

SEAL

My Commission Expires:

COMMONWEALTH OF PENNSYLVANIA

Notarial Seal Kelly Himmelberger, Notary Public West Reading Boro, Berks County My Commission Expires June 14, 2010

Member, Pennsylvania Association of Notaries

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PATENT REEL: 021815 FRAME: 0256