| Form PTO-1595 (Rev. 08/08)<br>OMB No. 0651-0027 (exp. 9/30/2008) S-108, 76                                                  |                                                                                               |  |
|-----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|--|
| RECORDATION FORM COVER SHEET<br>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(les)                                                   |  |
| UT-BATTELLE, LLC                                                                                                            | Name: U.S. Department of Energy                                                               |  |
|                                                                                                                             | Internal Address: GC-62 6F-067                                                                |  |
| Additional name(s) of conveying party(les) attached?  Yes  No                                                               | Street Address: 1000 Independence Avenue, S.W                                                 |  |
| 3. Nature of conveyance/Execution Date(s):                                                                                  |                                                                                               |  |
| Execution Date(s) 09/12/2008                                                                                                |                                                                                               |  |
| 🗆 Assignment 🛛 Merger                                                                                                       | City: Washington                                                                              |  |
| Security Agreement     Change of Name                                                                                       | State: <u>D.C.</u>                                                                            |  |
| Joint Research Agreement                                                                                                    | Country:Zip: 20585-0162                                                                       |  |
| <ul> <li>Government Interest Assignment</li> <li>Executive Order 9424, Confirmatory License</li> </ul>                      |                                                                                               |  |
|                                                                                                                             | Additional name(s) & address(es) attached? 🔲 Yes 🛛 No                                         |  |
|                                                                                                                             | document is being filed together with a new application.                                      |  |
| A. Patent Application No.(s)                                                                                                | B. Patent No.(s)                                                                              |  |
| 12/111,641                                                                                                                  |                                                                                               |  |
|                                                                                                                             |                                                                                               |  |
| Additional numbers at                                                                                                       | tached? 🗖 Yeş 🛛 No                                                                            |  |
| 5. Name and address to whom correspondence<br>concerning document should be mailed:                                         | 6. Total number of applications and patents involved:                                         |  |
| Name: Brenda K. Banks                                                                                                       | 7. Total fee (37 CFR 1.21(h) & 3.41) \$                                                       |  |
| Internal Address: GC-62 6F-067                                                                                              |                                                                                               |  |
| U.S. Department of Energy                                                                                                   | <ul> <li>Authorized to be charged to deposit account</li> <li>Enclosed</li> </ul>             |  |
| Street Address: 1000 Independence Avenue, S.W.                                                                              | <ul> <li>Enclosed</li> <li>None required (government interest not affecting title)</li> </ul> |  |
|                                                                                                                             | 8. Payment Information                                                                        |  |
| City: Washington                                                                                                            | o. Payment information                                                                        |  |
| State: D.C. Zip: 20585-0162                                                                                                 |                                                                                               |  |
| Phone Number: 202-586-2802                                                                                                  |                                                                                               |  |
| Fax Number: 202-586-2805                                                                                                    | Deposit Account Number                                                                        |  |
| Email Address: <u>brenda.banks@hq.doe.gov</u>                                                                               | Authorized User Name                                                                          |  |
| 9. Signature: MUNACL BUNICO<br>Signature                                                                                    | <u>10/9/08</u><br>Date                                                                        |  |
| · · ·                                                                                                                       | Total number of pages including cover 2                                                       |  |
| Brenda K. Banks Name of Person Signing                                                                                      | 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, VA 22313-1450 10/09/2008 08:17 FAX 2025867127

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## DOE Docket ID1762.1 S-108,763

## **CONFIRMATORY LICENSE**

| Title:             | Device and Method for Detecting Sulfur Dioxide at High Temperatures |
|--------------------|---------------------------------------------------------------------|
| Inventor(s):       | David L. West, Frederick C. Montgomery and Timothy R. Armstrong     |
| Serial No.:        | 12/111,641                                                          |
| Filing Date (U.S.) | April 29, 2008                                                      |
| Contractor:        | UT-Battelle, LLC                                                    |
| DOE Contract No.:  | DE-AC05-00OR22725                                                   |

The invention identified above is a "Subject Invention" under the above-numbered contract. A copy of the provision of the above-numbered contract. (certified on 04-13-00) governing patent rights in the Subject Invention at the time the invention was made, has been submitted to the U.S. Department of Energy.

The Contractor hereby confirms that under the provisions of the above-numbered contract governing patent rights, it has granted to the Government a nonexclusive, nontransferable, irrevocable, paid-up license to practice or have practiced for or on behalf of the United States the subject invention throughout the world. This license applies to the invention in the above-identified patent application and any and all divisions or continuations thereof and any resulting patent or reissue patent which may be granted thereon.

It is understood and agreed that this document does not preclude the Government from asserting rights under the provisions of said contract or any other agent between the Government and the Contractor, or any other rights of the Government with respect to the above-identified invention.

The Contractor hereby grants the Government an irrevocable power to inspect and make copies of the aboveidentified application.

Signed this 12th day of <u>Signed this</u>, 2008.

UT-Battelle, LLC

Mark Reeves Interim Director, Office of Technology Transfer

**RECORDED: 10/09/2008**