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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)**  
UT-BATTELLE, LLCAdditional name(s) of conveying party(ies) attached?  Yes  No**3. Nature of conveyance/Execution Date(s):**Execution Date(s) 1/9/2008

- Assignment  Merger  
 Security Agreement  Change of Name  
 Joint Research Agreement  
 Government Interest Assignment  
 Executive Order 9424, Confirmatory License  
 Other

**2. Name and address of receiving party(ies)**Name: U.S. Department of EnergyInternal Address: GC-62 6F-067Street Address: 1000 Independence Avenue, S.W.City: WashingtonState: D.C.Country: \_\_\_\_\_ Zip: 20585-0162Additional name(s) & address(es) attached?  Yes  No**4. Application or patent number(s):** This document is being filed together with a new application.A. Patent Application No.(s)  
11/926934

B. Patent No.(s)

Additional numbers attached?  Yes  No**5. Name and address to whom correspondence concerning document should be mailed:**Name: Brenda K. BanksInternal Address: GC-62 6F-067U.S. Department of EnergyStreet Address: 1000 Independence Avenue, S.W.City: WashingtonState: D.C. Zip: 20585-0162Phone Number: 202-586-2802Fax Number: 202-586-2805Email Address: brenda.banks@hq.doc.gov**6. Total number of applications and patents involved:****7. Total fee (37 CFR 1.21(h) & 3.41) \$** \_\_\_\_\_

- Authorized to be charged by credit card  
 Authorized to be charged to deposit account  
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 None required (government interest not affecting title)

**8. Payment Information**

a. Credit Card Last 4 Numbers \_\_\_\_\_

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b. Deposit Account Number \_\_\_\_\_

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**9. Signature:**Brenda K. Banks  
Signature9/28/08  
DateBrenda K. Banks

Name of Person Signing

Total number of pages including  
cover**2**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

11/926,934

DOE Docket ID1749.0  
S-108,750**CONFIRMATORY LICENSE**

Title: Solid State Transport-Based Thermoelectric Converter  
Inventor(s): Zhiyu Hu  
Serial No.: 11/926,934  
Filing Date (U.S.): October 29, 2007  
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 above-identified application.

Signed this 9<sup>th</sup> day of September, 2008.

UT-Battelle, LLC

By Casey Porto  
Director, Office of Technology Transfer