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UT-BATTELLE, LLC

2. Name and address of receiving party(ies)Name: U.S. Department of EnergyInternal Address: GC-62 6F-067Additional name(s) of conveying party(ies) attached? ☐ Yes ☐ No**3. Nature of conveyance/Execution Date(s):**Execution Date(s) 10/27/2006

- ☐ Assignment ☒ Merger
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Street 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)

11/536,988

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.doe.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
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2

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Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, VA 22313-1450

11/536,988

DOE Docket ID1535.0
S-105,137**CONFIRMATORY LICENSE**

Title: Liquid Metal Heat Exchanger for Efficient Heating of Soils and Geologic Formations
Inventor(s): Robert C. DeVault and David J. Wesolowski
Serial No.: 11/536,988
Filing Date (U.S.): September 29, 2006
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 27th day of October, 2006.

UT-Battelle, LLCBy Casey Porto
Director, Office of Technology Transfer