U.S. DEPARTMENT OF COMMERCE Form PTO-1595 (Rev. 07/05) United States Patent and Trademark Office OMB No. 0651-0027 (exp. 6/30/2008) RECORDATION FORM COVER SHEET S-108,848 JP PATENTS ONLY To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below. 2. Name and address of receiving party(les) 1. Name of conveying party(ies) Name: United States Department of Energy SOUTHWEST RESEARCH INSTITUTE Internal Address: Additional name(s) of conveying party(ies) attached? Larges 🗹 No 3. Nature of conveyance/Execution Date(s): Street Address: 1000 Independence Ave., S.W Execution Date(s) 11/15/2006 Assignment Merger City: Washington Security Agreement Joint Research Agreement State: D.C. Government Interest Assignment Zip: 20585 Country: USA ✓ Executive Order 9424, Confirmatory License Additional name(s) & address(es) attached? Tyes Vo No Other 4. Application or patent number(s): This document is being filed together with a new application. B. Patent No.(s) A. Patent Application No.(s) 11/541,008 Additional numbers attached? Yes ✓ No 6. Total number of applications and patents 5. Name and address to whom correspondence concerning document should be mailed: involved: 1 Mark P. Dvorscak 7. Total fee (37 CFR 1.21(h) & 3.41) \$___ Internal Address: U. S. Dept. of Energy, IPLD Authorized to be charged to deposit account Enclosed Street Address: 9800 S. Cass Ave ✓ None required (government interest not affecting title) 8. Payment Information City: <u>Argonne</u> a. Credit Card Last 4 Numbers _____ State: IL Zip:60439 Expiration Date _____ Phone Number: <u>630-252-2393</u> b. Deposit Account Number _____ Fax Number: 630-252-2779 Authorized User Name Email Address: 9. Signature: Signature Total number of pages including cover; Michael J. Dobbs #58.093 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: 018674 FRAME: 0749 Title

CONFIRMATORY LICENSE

(Nonprofit Organizations or Small Business Firms)

Side Branch Absorber for Exhaust Manifold of Two-Stroke

Internal Combustion Engine

Ralph E. Harris; Eugene L. Broerman III; Gary D. Bourn Inventor(s)

Filed Date: September 29, 2006 11/541,008 Application No.

Southwest Research Institute Contractor

DE-FC26-02NT41646 DOE Contract No.

S-108,848 DOE Case No.

FAR 52.227.11 Patent Rights Clause No.:

Foreign Applications filed in or intended to be filed at Contractor's expense in (countries): Foreign filings are not possible because the application has been placed under security review.

The Contractor, having the right to retain title to Subject Inventions as a result of Public Law 96-517, has reported the above-identified invention as a Subject Invention to DOE with its election to retain title thereto.

Accordingly, this document is confirmatory of the nonexclusive, nontransferable, irrevocable, paid-up license to practice or to have practiced for or on behalf of the United States, required by the Public Law and the above-identified contract, in this Subject Invention, patent application, and any resulting patents, as well as any continuation, divisional, reissue, supplemental, or continuation-in-part thereof, throughout the world and of all other rights acquired by the Government by the above-identified patent rights clause, a copy of which is attached hereto and incorporated by reference herein. The undersigned certifies that this license does not preclude the Government from asserting rights under the provisions of said contract or of any other agreement between the Government and the Contractor or from asserting any other rights of the Government with respect to the above-identified Subject Invention.

The Government is hereby granted an irrevocable power to inspect and make copies of the above-identified patent.

Signed this 15 day of November, 2006.

SOUTHWEST RESEARCH INSTITUTE

By:

John W. McLeod

Vice President and General Counsel

6220 Culebra Road

San Antonio, Texas 78238-5166

PATENT

REEL: 018674 $_{*}$ FRAME: 0750 $_{**}$

RECORDED: 12/15/2006

(SEAL)