

Form PTO-1595 (Rev. 07/05)
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JP	RECORDATION FORM COVER SHEET PATENTS ONLY	S-110,612
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3. Nature of conveyance/Execution Date(s): Execution Date(s) <u>09/25/2007</u> <input type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Joint Research Agreement <input type="checkbox"/> Government Interest Assignment <input checked="" type="checkbox"/> Executive Order 9424, Confirmatory License <input type="checkbox"/> Other _____	4. Application or patent number(s): <input type="checkbox"/> This document is being filed together with a new application. A. Patent Application No.(s) <u>11/728,884</u> B. Patent No.(s) _____ Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Name and address to whom correspondence concerning document should be mailed: Name: <u>Mark P. Dvorscak</u> Internal Address: <u>U. S. Dept. of Energy, IPLD</u> Street Address: <u>9800 S. Cass Ave</u> City: <u>Argonne</u> State: <u>IL</u> Zip: <u>60439</u> Phone Number: <u>630-252-2393</u> Fax Number: <u>630-252-2779</u> Email Address: _____	6. Total number of applications and patents involved: <u>1</u> 7. Total fee (37 CFR 1.21(h) & 3.41) \$ _____ <input type="checkbox"/> Authorized to be charged by credit card <input type="checkbox"/> Authorized to be charged to deposit account <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> None required (government interest not affecting title)	
8. Payment Information a. Credit Card Last 4 Numbers _____ Expiration Date _____ b. Deposit Account Number _____ Authorized User Name _____		
9. Signature: <u>Michael J. Dobbs</u> <u>10/3/07</u> <div style="display: flex; justify-content: space-between;"> Signature Date </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> Michael J. Dobbs #58,093 Name of Person Signing <div style="text-align: right;"> Total number of pages including cover sheet, attachments, and documents: 2 </div> </div>		

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 1460, Alexandria, V.A. 22313-1460

CONFIRMATORY LICENSE**Title of Invention:** Wavy Flow Cooling Concept for Turbine Airfoils**Inventor(s):** George Liang**Patent Application Serial No:** 11/728, 884**Filing Date** 03/27/2007**Patent Number:** not yet issued**Issue Date:** not yet issued**Name of Contractor** (i.e. Contractor, Subcontractor, Grant, or Cooperative Agreement, as applicable):
Siemens Power Generation, Inc.**DOE Contract No.** (i.e. Contract, Subcontract, Grant, or Cooperative Agreement, as applicable):
DE-FC26-05NT42644**DOE Case No.:** S-110, 612**Contractor Docket No.:** 2007P05503US (formerly 2006E03336US)

The Contractor has reported the above-identified invention as a Subject Invention to DOE and has elected to retain title thereto.

Accordingly, this document is confirmatory of the nonexclusive, nontransferable, irrevocable, paid-up, worldwide license in this subject invention, patent application and any resulting patent, including any continuation, divisional, reissue, or supplemental application thereof, to practice or to have practiced for or on behalf of the United States throughout the world; and of all other rights acquired by the Government by the patent rights clause in the above-identified contract.

It is understood and agreed 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 application.

Signed this 25 day of September, 2007

Siemens Power Generation, Inc.

Contractor Name

By:

Daniel J. Staudt, Asst. Secretary

4400 N. Alafaya Trail, Orlando, FL 32826-2399

Business Address