

FORM PTO-1619A
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OMB 0651-0027

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5-99367

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FORM PTO-1619B
Expires 06/30/99
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U.S. Department of Commerce
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PATENT

Correspondent Name and Address

Area Code and Telephone Number

202-586-2810

Name Betty A. Winchester

Address (line 1) U. S. Department of Energy

Address (line 2) 1000 Independence Avenue, S.W.

Address (line 3) Washington, D. C. 20585-0162

Address (line 4)

Pages Enter the total number of pages of the attached conveyance document including any attachments.

1

Application Number(s) or Patent Number(s)

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Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

Patent Application Number(s)

Patent Number(s)

10/618,372						

If this document is being filed together with a new Patent Application, enter the date the patent application was

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Patent Cooperation Treaty (PCT)

Enter PCT application number only if a U.S. Application Number has not been assigned.

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Number of Properties

Enter the total number of properties involved.

1

Fee Amount

Fee Amount for Properties Listed (37 CFR 3.41): \$ 0.00

Method of Payment: Enclosed Deposit Account

Deposit Account

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Brenda K. Banks

Brenda K Banks

11/3/03

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Signature

Date

10/618372

Docket No. 1193.1
DOE S-99,367

CONFIRMATORY LICENSE

Application for: Methods and Apparatus for Thermal Management of Vehicle Systems and Components

Inventors: John Sheungchun Hsu, Donald Joe Adams, Gui-Jia Su, Laura D. Marlino, Curtis W. Ayers and Chester Coomer

Serial No.: 10/618,372

Filing Date (U.S.): 07/11/2003

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 15th day of Oct., 2003.

UT-Battelle, LLC



Alexander R. Fischer, Director
Technology Transfer and Economic Development

ARF:ha