

FORM PTO-1619A  
Expires 06/30/99  
OMB 0651-0027

U.S. Department of Commerce  
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**PATENT**

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S-90,967

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

Name (line 2)

Address (line 1)  1000 Independence Avenue, S.W.

Address (line 2)

Address (line 3)  Washington

D.C.

20585-0162

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FORM PTO-1619B

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U.S. Department of Commerce  
Patent and Trademark Office  
PATENT

## Correspondent Name and Address

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## Pages

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## Application Number(s) or Patent Number(s)

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Patent Application Number(s)

09/006,621

Patent Number(s)

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  
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indicated herein.

Brenda K. Banks

Name of Person Signing

Signature

Date

09/006,621

DOE Docket No.: S-90,967

## CONFIRMATORY LICENSE

Application for: Verticle Two Chamber Reaction Furnace  
Inventor(s): Richard D. Blaugher  
Serial No.: 09/006,621  
Filing Date: January 13, 1998  
Contract No.: DE-AC36-83CH10093  
Contractor: Midwest Research Institute

The invention identified above is a "Subject Invention" under the above-numbered contract. A copy of the provisions of the above-numbered contract (certified on February 9, 1996) 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 to 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 agreement 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 24<sup>th</sup> day of June, 1998.

  
Ken Richardson  
Assistant Chief Patent Counsel

National Renewable Energy Laboratory  
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Golden, CO 80401