

PATENT ASSIGNMENT

Electronic Version v1.1
Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	EXECUTIVE ORDER 9424, CONFIRMATORY LICENSE										
CONVEYING PARTY DATA											
<table border="1"><tr><th>Name</th><th>Execution Date</th></tr><tr><td>Jefferson Science Associates, LLC/Thomas Jefferson National Accelerator Facility</td><td>03/01/2010</td></tr></table>		Name	Execution Date	Jefferson Science Associates, LLC/Thomas Jefferson National Accelerator Facility	03/01/2010						
Name	Execution Date										
Jefferson Science Associates, LLC/Thomas Jefferson National Accelerator Facility	03/01/2010										
RECEIVING PARTY DATA											
<table border="1"><tr><td>Name:</td><td>U.S. Department of Energy</td></tr><tr><td>Street Address:</td><td>1000 Independence Ave., SW</td></tr><tr><td>City:</td><td>Washington</td></tr><tr><td>State/Country:</td><td>DISTRICT OF COLUMBIA</td></tr><tr><td>Postal Code:</td><td>20585</td></tr></table>		Name:	U.S. Department of Energy	Street Address:	1000 Independence Ave., SW	City:	Washington	State/Country:	DISTRICT OF COLUMBIA	Postal Code:	20585
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PROPERTY NUMBERS Total: 1											
<table border="1"><tr><th>Property Type</th><th>Number</th></tr><tr><td>Application Number:</td><td>11267730</td></tr></table>		Property Type	Number	Application Number:	11267730						
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Application Number:	11267730										
CORRESPONDENCE DATA											
Fax Number: (202)586-7127 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
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Address Line 4: Washington, DISTRICT OF COLUMBIA 20585											
NAME OF SUBMITTER:	Brenda K. Banks										
Total Attachments: 2 source=S-105934#page1.tif source=S-105934#page2.tif											

501147436

PATENT
REEL: 024230 FRAME: 0495

CONFIRMATORY LICENSE

Title: Helium Process Cycle
Inventor(s): Venkatarao Ganni
Serial No.: 11/267,730
Filing Date (U.S.): 11/4/2005
U.S. Patent No. 7,409,834 B1 dated Aug. 12, 2008

Contract No.: DE-AC05-06OR23177

Contractor: Jefferson Science Associates, LLC/Thomas Jefferson National Accelerator Facility

DOE Class Waiver No.: W(C)-1993-002; ORO-550

Foreign Applications filed in or intended to be filed at Contractor's expense in (countries):

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 3/01/10) as interpreted under Jefferson Science Associates' Operating Agreement 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 (excluding continuation-in-part) thereof and any resulting patent or reissue patent which may be granted thereof.

The Contractor hereby grants the Government an irrevocable power to inspect and make copies of the above-identified application.

Signed this 1st day of March, 2010.

By Rhonda Scales
(Signature)

Rhonda Scales, Legal Counsel
(Name and Title)

12000 Jefferson Avenue, Suite 15, Newport News, VA 23606
(Mailing Address)

If the invention was made under a subcontract, please identify

The Prime Contractor: _____
Prime Contract No.: _____

CERTIFICATION

Contract No.: DE-AC05-06OR23177

I certify that the attached contract provisions are a true and correct copy of provisions of the above-numbered contract by and between Jefferson Science Associates, LLC and the U.S. Department of Energy as in effect and interpreted under JSA's Operating Agreement on the date hereof.

By 
(Signature)

Rhonda Scales, Legal Counsel
(Name and Title)

12000 Jefferson Avenue, Suite 15,
Newport News, Virginia 23606
(Mailing Address)

Date 3/01/10