

FORM PTO-1619A

Expires 06/30/99  
OMB 0651-0027U.S. Department of Commerce  
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5-103,005

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☒ Departmental File☐ Secret File**Conveying Party(ies)**☐ Mark if additional names of conveying parties attached

Name (line 1) BWXT Y-12, LLC

Execution Date  
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1/24/2006

Name (line 2)

**Second Party**

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

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Address (line 2)

Address (line 3) Washington

D.C.

20585-0162

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REEL: 017341 FRAME: 0306

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

## Patent Application Number(s)

11/236,959

## Patent Number(s)

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

Month Day Year

## Patent Cooperation Treaty (PCT)

Enter PCT application number  
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## Number of Properties

Enter the total number of properties involved.

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

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Brenda K. Banks

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Brenda K Banks

Signature

3/15/06

Date

PATENT

REEL: 017341 FRAME: 0307

11/236,959

2025

**CONFIRMATORY LICENSE  
LARGE BUSINESS CLASS WAIVER**

**Title: Controlled Differential Pressure System for an Enhanced Fluid Blending Apparatus**

**Inventor(s): Russell Hallman**

**Serial No.: 11/236,959**

**Filing Date (U.S.): September 28, 2005**

**DOE Case No.: S-103,065**

**Contractor: BWXT Y-12, L.L.C.**

**DOE Contract No.: DE-AC05-00OR22800**

**DOE Class Waiver No.: W(C)00-003 / ORO-755**

**Patent Rights Clause No.: Article I.80 DEAR 970.5227-12 PATENT RIGHTS-MANAGEMENT AND OPERATING CONTRACTS, FOR-PROFIT CONTRACTOR, ADVANCE CLASS WAIVER (DEC 2000)**


**Foreign Applications filed in or intended to be filed at Contractor's expense in (countries): (None)<sup>1</sup>**

The Contractor, having the right to retain title to certain Subject Inventions as a result of the above-identified U.S. Department of Energy (DOE) Class Patent Waiver, has reported the above-identified invention as a Subject Invention to DOE with an election to retain title thereto.

Accordingly, this document is confirmatory of the nonexclusive, nontransferable, paid-up license to practice or have practice for or on behalf of the United States the Subject Invention, patent application and any resulting patent, as well as any continuation, divisional, reissue, or supplemental thereof, and of all other rights acquired by the Government by the above-identified patent rights clause, a copy of which has been previously submitted to DOE (certified on June 16, 2003) and incorporated by reference herein. If attached, the undersigned certifies the attached copy to be a true copy of said clause. 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 24<sup>th</sup> day of January, 2006

By:   
Marilyn H. Giles, Manager  
BWXT Y-12, LLC  
Office of Technology Transfer

<sup>1</sup> Note: BWXT Y-12 will file a Patent Cooperation Treaty (PCT) application under the terms of its Prime Contract.