502547728 10/28/2013

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT2593267

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	EXECUTIVE ORDER 9424, CONFIRMATORY LICENSE

CONVEYING PARTY DATA

Name	Execution Date
B&W Y-12, LLC	10/17/2013

RECEIVING PARTY DATA

Name:	U.S. DEPARTMENT OF ENERGY	
Street Address:	1000 INDEPENDENCE AVE., SW	
City:	WASHINGTON	
State/Country:	DISTRICT OF COLUMBIA	
Postal Code:	20585	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13626222

CORRESPONDENCE DATA

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Signature:	/Brenda K. Banks/
Date:	10/28/2013

Total Attachments: 1

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PATENT REEL: 031499 FRAME: 0707

CONFIRMATORY LICENSE LARGE BUSINESS CLASS WAIVER

Title: Electrolytic Systems and Methods for Making Metal Halides and Refining Metals

Inventor(s): Justin M. Holland and David M. Cecala

Serial No.:

13/626,222

Filing Date (U.S.): September 25, 2012

DOE Case No.: S-128,004

Contractor:

B&W Y-12, LLC

DOE Contract No.: DE-AC05-00OR22800

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)1

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 aboveidentified 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 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 17th day of October, 2013

Tammy Graham, Manager

B&W Y-12, LLC

Office of Technology Transfer

PATENT REEL: 031499 FRAME: 0708

RECORDED: 10/28/2013

¹ Note: B&W Y-12 may file a Patent Cooperation Treaty (PCT) application under the terms of its Prime Contract.