

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT3054980

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
JOHN CHRISTOPHER HANNAH	10/01/2014
GERALD DEAN KVAALL J.R.	10/01/2014
RECEIVING PARTY DATA	
Name:	GLOBAL NUCLEAR FUEL-AMERICAS, LLC
Street Address:	3901 CASTLE HAYNE ROAD
City:	WILMINGTON
State/Country:	NORTH CAROLINA
Postal Code:	28401
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	14508029
CORRESPONDENCE DATA	
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ATTORNEY DOCKET NUMBER:	24GA276176
NAME OF SUBMITTER:	GARY D. YACURA
SIGNATURE:	/Gary D. Yacura, Reg. no. 35,416/
DATE SIGNED:	10/07/2014
Total Attachments: 4	
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**COMBINED DECLARATION AND GLOBAL ASSIGNMENT
FOR UTILITY OR DESIGN PATENT APPLICATION**

As the below named inventor(s), I/we hereby declare that:

This declaration and assignment are directed to:

**MODERATING FUEL RODS INCLUDING METAL HYDRIDE AND
METHODS OF MODERATING FUEL BUNDLES OF BOILING WATER REACTORS
USING THE SAME**

- the specification of which is attached hereto OR
- United States application or PCT international application number _____ filed on _____, as amended on [date] (if applicable).
(We hereby authorize and request the Company or its delegated attorneys or agents to insert above the application number and filing date of the application when known.)

The above-identified application was made or authorized to be made by us.

We believe that we are original joint inventors of a claimed invention in the application.

We hereby acknowledge that any willful false statement made in this declaration is punishable under 18 USC § 1001 by fine or imprisonment of not more than five (5) years, or both.

We have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment referred to above.

We acknowledge the duty to disclose information which is material to the patentability of this application as defined in 37 CFR § 1.56, including, for continuation-in-part applications, material information which became available between the filing date of the prior application and the filing date of the continuation-in-part application.

In accordance with our obligation(s) under an Employee Innovation and Proprietary Information Agreement or (as applicable) arising out of other agreements (such as, but not limited to, the Services Agreement between Global Nuclear Fuel – Americas, LLC, a Delaware Limited Liability Company, and our employers), and/or for other good and valuable consideration of which we acknowledge receipt, I/we,

Inventor First Name	Inventor Middle Name	Inventor Last Name		Residence Town	Residence State	Residence Country
John	Christopher	HANNAH	of	Wilmington	NC	USA
Gerald	Dean	KVAALL, JR.	of	Wilmington	NC	USA

hereby sell and assign to:

Name of Company: Global Nuclear Fuel – Americas, LLC
Entity Type (optional): <i>Delaware Limited Liability Company</i>
Address: 3901 Castle Hayne Road, Wilmington, NC 28401

herein referred to as "Company", its successors and assigns our entire respective rights, titles and interests in and to the invention and improvements made or conceived by us described in the application(s) listed above and in the following table:

Country of Filing	Type of Filing	Application Number	Filing Date	Title

(We hereby authorize and request the Company or its delegated attorneys or agents to insert above the application number and filing date of the application(s) when known.)

and any and all applications for patent and patents therefrom in any and all countries, including all divisions, continuations, continuations-in-part, reexaminations, renewals, and reissues thereof, and all rights of priority resulting from the filing of the application(s), and authorize and request any official whose duty it is to issue patents, to issue any patent on the inventions and improvements resulting therefrom, to the Company, or its successors or assigns, and agree that on request and without further consideration, we will communicate to the Company or its representatives or nominees any facts known to us respecting the inventions and improvements and testify in any legal proceeding, make all rightful oaths, sign all lawful papers and execute all instruments or documents required or requested for the making and prosecution of any applications of any type for patent, utility model, or other similar rights in all countries including, but not limited to, any provisional, non-provisional, continuation, continuation-in-part, divisional, renewal or substitute thereof, for any derivation proceedings relating thereto, and, as to any patents that issue from such applications, for any supplemental examination, derivation proceeding, opposition, post grant review, reissue, re-examination, inter partes review, or extension thereof, and generally do everything possible to aid the Company, its successors, assigns, and nominees to obtain and enforce proper patent protection for the invention and its improvements in all countries.

Remuneration claims of the inventor(s)/assignor(s) potentially arising from German Law on Employee Inventions, or any other respective country law, remain unaffected by this assignment.

INVENTOR 1

Signature: *John Christopher Hannah*
John Christopher HANNAH

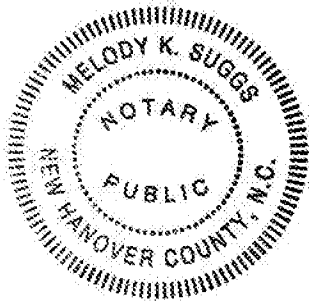
Date: 10/1/14

STATE OF North Carolina

COUNTY OF New Hanover

This 1st day of October, 2014 before me personally came the above-named **John Christopher HANNAH**, to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he executed the same of his own free will for the purposes therein set forth.

Seal



Melody K. Suggs
(Notary Public)

My commission expires: 01-15-2019

INVENTOR 2

Signature: Gerald Dean Kvaall, Jr.
Gerald Dean KVAALL, Jr.

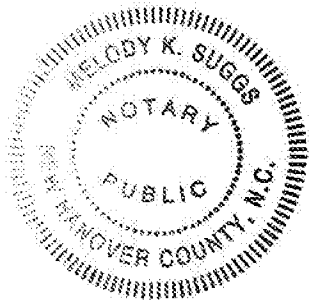
Date: 10/1/2014

STATE OF North Carolina

COUNTY OF New Hanover

This 1st day of October, 2014 before me personally came the above-named **Gerald Dean KVAALL, Jr.**, to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he executed the same of his own free will for the purposes therein set forth.

Seal



Melody K Suggs
(Notary Public)

My commission expires: 01-15-2019