

PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

EPAS ID: PAT5967615

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
ERIC P. LOEWEN	03/27/2017
ROBIN D. SPRAGUE	03/27/2017
JAMES P. SINEATH	03/21/2017
DEAN D. MOLINARO	03/20/2017
WILLIAM C. DAWN	03/21/2017
THERON D. MARSHALL	03/27/2017
JOEL P. MELITO	03/27/2017
RECEIVING PARTY DATA	
Name:	GE-HITACHI NUCLEAR ENERGY 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:	16793089
CORRESPONDENCE DATA	
Fax Number:	(571)273-1878
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
Phone:	571 335-7300
Email:	office@alleylegal.com
Correspondent Name:	RYAN ALLEY IP (GE DOCKET)
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ATTORNEY DOCKET NUMBER:	5.0052.2
NAME OF SUBMITTER:	RYAN E. ALLEY
SIGNATURE:	/Ryan Alley/
DATE SIGNED:	02/18/2020

Total Attachments: 9

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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:

**INTERMIXING FEEDWATER SPARGER NOZZLES AND METHODS FOR USING THE SAME
IN NUCLEAR REACTORS**

- the specification of which is attached hereto OR
- United States application or PCT international application number
15/470,706 filed on 27-MAR-2017 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 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 General Electric Company, a New York corporation, and our employers), and/or for other good and valuable consideration of which we acknowledge receipt, we,

Inventor First Name	Inventor Middle Name	Inventor Last Name		Residence Town	Residence State	Residence Country
Eric	P.	Loewen	of	Wilmington	NC	US
Robin	D.	Sprague	of	Wilmington	NC	US
James	P.	Sineath	of	Summerville	SC	US
Dean	D.	Molinaro	of	Clearwater	FL	US
William	C.	Dawn	of	Stafford	VA	US
Theron	D.	Marshall	of	Wilmington	NC	US
Joel	P.	Melito	of	Wilmington	NC	US

hereby sell and assign to:

Name of Company: GE-Hitachi Nuclear Energy Americas LLC
Entity Type (optional):
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 and 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
US	Nonprovisional	15/470,706	27-MAR-2017	INTERMIXING FEEDWATER SPARGER NOZZLES AND METHODS FOR USING THE SAME IN NUCLEAR REACTORS

(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, reexaminations 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, sign all lawful papers, execute all divisional, continuation, reexamination and reissue applications, make all rightful oaths 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:

Eric P. Loewen
Eric P. Loewen

Date:

27 MAR 17

Witnessed by:

Norbert J. Smith
Signature

Date:

3/27/2017

NORBERT J. SMITH

Printed Name of Witness

Witnessed by:

Melody K. Suggs
Signature

Date:

3-27-17

Melody K. Suggs

Printed Name of Witness

INVENTOR 2

Signature: *R.D. Sprague*
Robin D. Sprague

Date: 03/27/2017

Witnessed by: *Norbert J. Simon*
Signature

Date: 3/27/2017

NORBERT J. SIMON
Printed Name of Witness

Witnessed by: *Melody K. Suggs*
Signature

Date: 3-27-17

Melody K. Suggs
Printed Name of Witness

INVENTOR 3

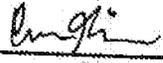
Signature:


James P. Sineath

Date:

21 March 2017

Witnessed by:



Signature

Date:

21 March 2017

Ciara Rice

Printed Name of Witness

Witnessed by:



Signature

Date:

21 March 2017

Parker Larson

Printed Name of Witness

INVENTOR 4

Signature: Dean D. Molinaro
Dean D. Molinaro

Date: 03/20/2017

Witnessed by: [Signature]
Signature

Date: 3/20/17

Corey Andre
Printed Name of Witness

Witnessed by: [Signature]
Signature

Date: 3/20/17

Alyssa Generali
Printed Name of Witness

INVENTOR 5

Signature: William C. Dawn
William C. Dawn

Date: 3/21/2017

Witnessed by: Pete W Ciaccio II
Signature

Date: 3/21/2017

PETER W CIACCIO II
Printed Name of Witness

Witnessed by: Nicholas F. Herring
Signature

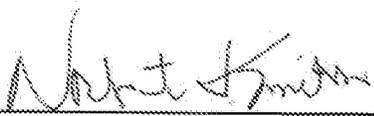
Date: 3/21/2017

Nicholas F. Herring
Printed Name of Witness

INVENTOR 6

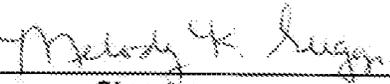
Signature: 
Theron D. Marshall

Date: 03/27/2017

Witnessed by: 
Signature

Date: 3/27/2017

NORBERT J. SMITH
Printed Name of Witness

Witnessed by: 
Signature

Date: 3.27.17

Melody K. Suggs
Printed Name of Witness

INVENTOR 7

Signature: Joel P. Melito
Joel P. Melito

Date: 03/27/2017

Witnessed by: [Signature]
Signature

Date: 3/27/2017

DREW HILLIAMS
Printed Name of Witness

Witnessed by: Melody K. Suggs
Signature

Date: 3.27.17

Melody K. Suggs
Printed Name of Witness