PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3516032

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
BENJAMIN PAUL LACY	09/04/2015
SRIKANTH CHANDRUDU KOTTILINGAM	09/04/2015
SANDIP DUTTA	09/04/2015
DAVID EDWARD SCHICK	09/04/2015

RECEIVING PARTY DATA

Name:	GENERAL ELECTRIC COMPANY	
Street Address: ONE RIVER ROAD		
City:	SCHENECTADY	
State/Country:	NEW YORK	
Postal Code:	12345	

PROPERTY NUMBERS Total: 1

Property Type	Number		
Application Number:	14847347		

CORRESPONDENCE DATA

Fax Number: (717)237-5300

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.

Phone: 717-237-5455 **Email:** ksmith@mwn.com

Correspondent Name: KERRI J. SMITH, PARALEGAL

Address Line 1: 100 PINE STREET Address Line 2: P.O. BOX 1166

Address Line 4: HARRISBURG, PENNSYLVANIA 17108-1166

ATTORNEY DOCKET NUMBER:	280129/22113-0229
NAME OF SUBMITTER:	KERRI J. SMITH
SIGNATURE:	/Kerri J. Smith/
DATE SIGNED:	09/08/2015
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 8

PATENT REEL: 036510 FRAME: 0197

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PATENT REEL: 036510 FRAME: 0198

Customer No.: 13152

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:

ARTICLE AND METHOD OF FORMING AN ARTICLE

\boxtimes	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 ac	jents 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 General Electric Company, a New York corporation, 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
Benjamin	Paul	LACY	of	Greer	SC	US
Srikanth	Chandrudu	KOTTILINGAM	of	Simpsonville	SC	US
Sandip		DUTTA	of	Greenville	SC	US
David	Edward	SCHICK	of	Greenville	SC	US

PATENT REEL: 036510 FRAME: 0199

Customer No.: 13152

hereby sell and assign to:

Name of Company: GENERAL ELECTRIC COMPANY
Entity Type (optional): New York corporation
Address: One River Road, Schenectady, New York 12345 USA

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 Witnessed by: _ Witnessed by: Joyal A. Walus Signature Date: 9/4/15 Joseph A Waber
Printed Name of Witness **INVENTOR 2** Date: Signature: Srikanth Chandrudu KOTTILINGAM Witnessed by: Signature Date: Printed Name of Witness Witnessed by: Signature Date: Printed Name of Witness

Docket No.: 280129/22113-0229

Customer No.: 13152

REEL: 036510 FRAME: 0201

Customer No.: 13152

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Signature: Sandip DUŢTĂ	Date: 541. 4, 2017
Sandip DUTTA	***************************************
Witnessed by: Signature	Date: 4/4/15
Marc Randon Printed Name of Witness	
Witnessed by: Joseph A. Weber Printed Name of Witness	Date: 9/4/15
INVENTOR 4	
Signature: David Edward SCHICK	Date:
Witnessed by:Signature	Date:
Printed Name of Witness	
Witnessed by:Signature	Date:
Printed Name of Witness	

REEL: 036510 FRAME: 0202

Customer No.: 13152

COMBINED DECLARATION AND GLOBAL ASSIGNMENT

FOR UTILITY OR DESIGN PATENT APPLICATION

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ARTICLE AND METHOD OF FORMING AN ARTICLE

\boxtimes	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 a	gents to
	insert above the application number and filing date of the application when known	.)

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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, I/we.

Inventor First Name	Inventor Middle Name	Inventor Last Name		Residence Town	Residence State	Residence Country
Benjamin	Paul	LACY	of	Greer	SC	US
Srikanth	Chandrudu	KOTTILINGAM	of	Simpsonville	SC	US
Sandip		DUTTA	of	Greenville	SC	US
David	Edward	SCHICK	of	Greenville	SC	US

PATENT REEL: 036510 FRAME: 0203

Customer No.: 13152

hereby sell and assign to:

Name of Company: GENERAL ELECTRIC COMPANY
Entity Type (optional): New York corporation
Address: One River Road, Schenectady, New York 12345 USA

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:

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(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 Benjamin Paul LACY Date: Signature: _ Date: Witnessed by: ______Signature Printed Name of Witness Witnessed by: Signature Date: _____ Printed Name of Witness **INVENTOR 2** Signature: Lt. Le. L. Kolf. Date: 9/4/2015
Srikanth Chandrudu KOTTILINGAM

Witnessed by: Signature

Date: 9/4/2015

Date: 9/4/2015 Witnessed by: Teles 1 Date: 9/4, 2015 Printed Name of Witness

Docket No.: 280129/22113-0229

Customer No.: 13152

Docket No.: 280129/22113-0229 Customer No.: 13152 INVENTOR 3 Date: Signature: Sandip DUTTA Witnessed by: Signature Date: Printed Name of Witness Witnessed by: Signature Date: Printed Name of Witness **INVENTOR 4** Signature: David Edward SCHICK

Date: 9/4/2015 Witnessed by: R 7 EVG WAT Date: 9/4/2005
Signature Richard T Evenhant
Printed Name of Wilness

Printed Name of Witness