

<b>PATENT ASSIGNMENT COVER SHEET</b>
--------------------------------------

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4722656

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
FEI XU	12/24/2016
KUM-KANG HUH	12/19/2016
AHMED ELASSER	12/19/2016
MOHAMMED AGAMY	12/20/2016
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	GENERAL ELECTRIC COMPANY
<b>Street Address:</b>	1 RIVER ROAD
<b>City:</b>	SCHENECTADY
<b>State/Country:</b>	NEW YORK
<b>Postal Code:</b>	12345
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15834304
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(203)840-6495
<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>	
<b>Phone:</b>	203-229-3883
<b>Email:</b>	maureen.silveira@ge.com
<b>Correspondent Name:</b>	GENERAL ELECTRIC COMPANY GE GLOBAL PATEN
<b>Address Line 1:</b>	901 MAIN AVENUE
<b>Address Line 2:</b>	3RD FLOOR
<b>Address Line 4:</b>	NORWALK, CONNECTICUT 06851
<b>ATTORNEY DOCKET NUMBER:</b>	315851-2
<b>NAME OF SUBMITTER:</b>	MAUREEN SILVEIRA
<b>SIGNATURE:</b>	/Maureen Silveira/
<b>DATE SIGNED:</b>	12/07/2017
<b>Total Attachments: 6</b>	
source=315851_2_US_Signed_[Combined_Declaration_and_]Assignment_07DEC2017#page1.tif	
source=315851_2_US_Signed_[Combined_Declaration_and_]Assignment_07DEC2017#page2.tif	

source=315851\_2\_US\_Signed\_[Combined\_Declaration\_and\_]Assignment\_07DEC2017#page3.tif

source=315851\_2\_US\_Signed\_[Combined\_Declaration\_and\_]Assignment\_07DEC2017#page4.tif

source=315851\_2\_US\_Signed\_[Combined\_Declaration\_and\_]Assignment\_07DEC2017#page5.tif

source=315851\_2\_US\_Signed\_[Combined\_Declaration\_and\_]Assignment\_07DEC2017#page6.tif

**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:

**SYSTEMS AND METHODS FOR A SOFT SWITCHING DC-  
DC CONVERTER**

- the specification of which is attached hereto OR  
 United States application or PCT international application number

15/834304 filed on December 7, 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 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
Fei		Xu	of	Shanghai	Shanghai	CN
Kum-Kang		Huh	of	Niskayuna	NY	US

Ahmed		Elasser	of	Niskayuna	NY	US
Mohammed		Agamy	of	Niskayuna	NY	US

hereby sell and assign to:

Name of Company: <i>General Electric Company</i>
Entity Type (optional): <i>New York corporation</i>
Address: <i>1 River Road, Schenectady, New York 12345 USA</i>

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
CN	Utility	201710061052.3	January 25, 2017	SYSTEMS AND METHODS FOR A SOFT SWITCHING DC-DC CONVERTER

(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: Fei Xu  
Fei Xu

Date: 2016.12.24

Witnessed by: Kai Xin  
Signature

Date: 2016.12.24

Kai Xin  
Printed Name of Witness

Witnessed by: Zhaohui Wang  
Signature

Date: 2016.12.24

Zhaohui Wang  
Printed Name of Witness

**SECTION BELOW IS FOR USE ONLY IF SIGNING IN PRESENCE OF A NOTARY**

\_\_\_\_\_  
Fei Xu

Date: \_\_\_\_\_

STATE OF

ss.

COUNTY OF

This \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_ before me personally came the above-named Fei Xu, 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

\_\_\_\_\_  
(Notary Public)

**INVENTOR 2**

Signature: *Kum-Kang Huh*  
**Kum-Kang Huh**

Date: 12/19/2016

Witnessed by: *Yukai Wang*  
Signature

Date: 12/19/16

Yukai WANG  
Printed Name of Witness

Witnessed by: *Nidhisree Tapadia*  
Signature

Date: 12/19/2016

NIDHISREE TAPADIA  
Printed Name of Witness

**SECTION BELOW IS FOR USE ONLY IF SIGNING IN PRESENCE OF A NOTARY**

\_\_\_\_\_  
**Kum-Kang Huh**

Date: \_\_\_\_\_

STATE OF

ss.

COUNTY OF

This \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_ before me personally came the above-named **Kum-Kang Huh**, 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

\_\_\_\_\_  
(Notary Public)

INVENTOR 3

Signature:

[Handwritten Signature]  
Ahmed Elasser

Date:

12/19/2016

Witnessed by:

[Handwritten Signature]  
Signature

Date:

12/19/2016

Printed Name of Witness

Michael Emekt

Witnessed by:

[Handwritten Signature]  
Signature

Date:

12/19/2016

Printed Name of Witness

KARIM YOUNSI

SECTION BELOW IS FOR USE ONLY IF SIGNING IN PRESENCE OF A NOTARY

\_\_\_\_\_  
Ahmed Elasser

Date:

\_\_\_\_\_

STATE OF

ss.

COUNTY OF

This \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_ before me personally came the above-named Ahmed Elasser, 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

\_\_\_\_\_  
(Notary Public)

**INVENTOR 4**

Signature: Mohammed Agamy  
Mohammed Agamy

Date: 12/20/2016

Witnessed by: [Signature]  
Signature

Date: 12/20/2016

Carlos D. Feliz  
Printed Name of Witness

Witnessed by: [Signature]  
Signature

Date: 12/20/2016

SACHIN MADHAV SUDHANAN  
Printed Name of Witness

**SECTION BELOW IS FOR USE ONLY IF SIGNING IN PRESENCE OF A NOTARY**

\_\_\_\_\_  
Mohammed Agamy

Date: \_\_\_\_\_

STATE OF

ss.

COUNTY OF

This \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_ before me personally came the above-named **Mohammed Agamy**, 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

\_\_\_\_\_  
(Notary Public)