

## PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Yaru Najem Mendez Hernandez</td> <td>09/26/2012</td> </tr> <tr> <td>Jorge Carretero Benignos</td> <td>09/27/2012</td> </tr> <tr> <td>Joerg Hermann Stromberger</td> <td>10/02/2012</td> </tr> <tr> <td>Sean Craig Jenkins</td> <td>09/28/2012</td> </tr> </tbody> </table>		Name	Execution Date	Yaru Najem Mendez Hernandez	09/26/2012	Jorge Carretero Benignos	09/27/2012	Joerg Hermann Stromberger	10/02/2012	Sean Craig Jenkins	09/28/2012
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Yaru Najem Mendez Hernandez	09/26/2012										
Jorge Carretero Benignos	09/27/2012										
Joerg Hermann Stromberger	10/02/2012										
Sean Craig Jenkins	09/28/2012										
RECEIVING PARTY DATA											
Name:	GENERAL ELECTRIC COMPANY										
Street Address:	1 RIVER ROAD										
City:	SCHENECTADY										
State/Country:	NEW YORK										
Postal Code:	12345										
PROPERTY NUMBERS Total: 1											
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13629638</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13629638						
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CORRESPONDENCE DATA											
Fax Number:	8663089939										
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
Phone:	518-387-4427										
Email:	ldocket@crd.ge.com										
Correspondent Name:	GENERAL ELECTRIC COMPANY GLOBAL RESEARCH										
Address Line 1:	ONE RESEARCH CIRCLE										
Address Line 2:	BLDG. K1-3A59										
Address Line 4:	NISKAYUNA, NEW YORK 12309										
ATTORNEY DOCKET NUMBER:	246062-1										
NAME OF SUBMITTER:	Seema S. Katragadda										
This document serves as an Oath/Declaration (37 CFR 1.63).											

CH \$40.00 13629638

PATENT

**Total Attachments: 6**

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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:

**Systems and Methods for Improved Combustion**

- the specification of which is attached hereto OR
- United States application or PCT international application number 13/629638 filed on September 28<sup>th</sup> 2012, 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
Yaru	Najem Mendez	Hernandez	of	Munich	Bavaria	DE
Jorge	Carretero	Benignos	of	Munich	Bavaria	DE
Joerg	Hermann	Stromberger	of	Hallbergmoos	Bavaria	DE
Sean	Craig	Jenkins	of	Haimhausen	Bavaria	DE

v9.18.12

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

(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: Yaru Mendez Hernandez  
Yaru Najem Mendez Hernandez

Date: 26/Sep/2012

Witnessed by: Said El-Barrari  
Signature

Date: 26/Sep/2012

SAID EL-BARRARI  
Printed Name of Witness

Witnessed by: Pekka Sipita  
Signature

Date: 26/Sep/2012

Pekka Sipita  
Printed Name of Witness

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

..... Date: .....

Yaru Najem Mendez Hernandez

STATE OF

ss.

COUNTY OF

This ..... day of ..... before me personally came the above-named Yaru Najem Mendez Hernandez, to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

Seal

..... (Notary Public)

INVENTOR 2

Signature: [Handwritten Signature]  
Jorge Carretero Benignos

Date: 27.09.2012

Witnessed by: [Handwritten Signature]  
Signature

Date: 27.09.2012

SAID EL-BARBARI  
Printed Name of Witness

Witnessed by: [Handwritten Signature]  
Signature

Date: 29.09.2012

Pekka Sipilä  
Printed Name of Witness

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

.....  
Jorge Carretero Benignos

Date: .....

STATE OF

ss.

COUNTY OF

This \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_ before me personally came the above-named Jorge Carretero Benignos, to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

Seal

.....  
(Notary Public)

INVENTOR 3

Signature:   
Joerg Hermann Stromberger

Date: 02 Oct 2012

Witnessed by:   
Signature

Date: Oct. 2/2012

PAOLO Solari  
Printed Name of Witness

Witnessed by:   
Signature

Date: Oct. 2nd 2012

Bertrand Bastien  
Printed Name of Witness

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

\_\_\_\_\_  
Joerg Hermann Stromberger

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

STATE OF

ss.

COUNTY OF

This \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_ before me personally came the above-named Joerg Hermann Stromberger, to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

Seal

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

INVENTOR 4

Signature: Sean Craig Jenkins  
Sean Craig Jenkins

Date: 9/28/2012

Witnessed by: Karl Rosenmann  
Signature

Date: 9/28/2012

KARL ROSENMAN  
Printed Name of Witness

Witnessed by: Levi Chaffetz  
Signature

Date: 9/28/2012

LEVI CHAFFETZ  
Printed Name of Witness

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

Sean Craig Jenkins Date: \_\_\_\_\_

STATE OF \_\_\_\_\_  
COUNTY OF \_\_\_\_\_

ss.

This \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_ before me personally came the above-named Sean Craig Jenkins, to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

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