

<b>PATENT ASSIGNMENT COVER SHEET</b>
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Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4845395

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
SEBASTIAN FREUND	02/16/2015
JASSIN FRITZ	02/16/2015
ROBERT MISCHLER	11/28/2016
DAVID ZIELINSKI	11/30/2016
LUKE MICHAEL HENRY	11/29/2016
<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>	14624804
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(203)373-7153
<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 3888
<b>Email:</b>	amy.moore1@ge.com
<b>Correspondent Name:</b>	GE GLOBAL PATENT OPERATION - TRANSPORTATION
<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>	243393-13
<b>NAME OF SUBMITTER:</b>	JOHN A. KRAMER
<b>SIGNATURE:</b>	/John A. Kramer/
<b>DATE SIGNED:</b>	02/28/2018
<b>Total Attachments: 7</b>	

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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:

**ENGINE SYSTEM AND METHOD**

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

14/624,804 filed on February 18, 2015, 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
Sebastian		FREUND	of	Unterfoehring		DE
Jassin		FRITZ	of	München		DE
Robert		MISCHLER	of	Lawrence Park	PA	US
David		ZIELINSKI	of	Lawrence Park	PA	US
Luke	Michael	HENRY	of	Lawrence Park	PA	US

hereby sell and assign to:

Name of Company: <i>GENERAL ELECTRIC COMPANY</i>
Entity Type (optional):
Address: <i>1 River Road Schenectady, NY 12345</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
US-UNITED STATES	CIP-Continuation In Part	12/888,928	September 23, 2010	ENGINE SYSTEM AND METHOD

(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: *S. Freund*  
SEBASTIAN FREUND

Date: 16.02.2015

Witnessed by: *JLB*  
Signature

Date: 16/2/2015

TREVOR JAMES KIRSTEN  
Printed Name of Witness

Witnessed by: *[Signature]*  
Signature

Date: 16/2/2015

Rodrigo Rodriguez Edmundo  
Printed Name of Witness

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

\_\_\_\_\_  
SEBASTIAN FREUND

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

STATE OF

ss.

COUNTY OF

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

Seal

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

INVENTOR 2

Signature: [Handwritten Signature]  
JASSIN FRITZ

Date: 16/ Feb/ 2015

Witnessed by: [Handwritten Signature]  
Signature

Date: 16/ Feb/ 2015

Rodrigo Rodriguez Edmundo  
Printed Name of Witness

Witnessed by: [Handwritten Signature]  
Signature

Date: 16. Feb. 2015

Ismail Seza  
Printed Name of Witness

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

\_\_\_\_\_  
JASSIN FRITZ

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

STATE OF

ss.

COUNTY OF

This \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_ before me personally came the above-named **JASSIN FRITZ**, 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: Robert Mischler  
ROBERT MISCHLER

Date: 11/28/2016

Witnessed by: Michael Mangus  
Signature

Date: 11/28/2016

Michael Mangus  
Printed Name of Witness

Witnessed by: Anthony Rosa  
Signature

Date: 11/28/2016

ANTHONY ROSA  
Printed Name of Witness

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

\_\_\_\_\_  
ROBERT MISCHLER

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

STATE OF

ss.

COUNTY OF

This \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_ before me personally came the above-named **ROBERT MISCHLER**, 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: David Zielinski  
DAVID ZIELINSKI

Date: 11/30/16

Witnessed by: \_\_\_\_\_  
Signature

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

Printed Name of Witness \_\_\_\_\_

Witnessed by: \_\_\_\_\_  
Signature

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

Printed Name of Witness \_\_\_\_\_

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

DAVID ZIELINSKI \_\_\_\_\_ Date: \_\_\_\_\_

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

ss.

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

This \_\_\_\_\_ day of \_\_\_\_\_ before me personally came the above named  
DAVID ZIELINSKI of the personal knowledge of the individual who executed the foregoing  
assignment, who acknowledged to me that he executed the same of his own free will, and the  
purpose therein set forth.

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



