

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT3941517

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
LILING REN	06/24/2016
HAROLD WOODRUFF TOMLINSON	06/24/2016
VINCENT PAUL STAUDINGER	06/24/2016
JEFFREY RUSSELL BULT	06/27/2016
MAURICIO CASTILLO-EFFEN	06/24/2016
SZABOLCS ANDRAS BORGYOS	06/27/2016
STEPHEN KOSZALKA	06/24/2016
<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>	15196741
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<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>	518-387-7724
<b>Email:</b>	gpodckt.mail@ge.com
<b>Correspondent Name:</b>	GENERAL ELECTRIC COMPANY GLOBAL RESEARCH
<b>Address Line 1:</b>	ONE RESEARCH CIRCLE
<b>Address Line 2:</b>	BLDG. K1-3A59
<b>Address Line 4:</b>	NISKAYUNA, NEW YORK 12309
<b>ATTORNEY DOCKET NUMBER:</b>	280101_G30.058
<b>NAME OF SUBMITTER:</b>	RANDOLPH P. CALHOUNE
<b>SIGNATURE:</b>	/RPC/
<b>DATE SIGNED:</b>	06/29/2016

PATENT

**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:

**METHOD AND SYSTEMS FOR PERFORMANCE BASED ARRIVAL AND SEQUENCING  
AND SPACING**

- ☒ the specification of which is attached hereto OR  
☐ United States application or PCT international application number \_\_\_\_\_, as  
\_\_\_\_\_ filed on \_\_\_\_\_, 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 and Middle Names	Inventor Last Name		Residence Town	Residence State	Residence Country
Liling	REN	of	Niskayuna	NY	US
Harold Woodruff	TOMLINSON	of	Niskayuna	NY	US
Vincent Paul	STAUDINGER	of	Niskayuna	NY	US
Jeffrey Russell	BULT	of	Grand Rapids	MI	US
Mauricio	CASTILLO-EFFEN	of	Rexford	NY	US
Szabolcs Andras	BORGYOS	of	Grand Rapids	MI	US
Stephen	KOSZALKA	of	Kent	WA	US

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: \_\_\_\_\_

Liling REN

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

6/24/2016

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

Signature

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

6/24/2016

KRZYJZTOF FELA

Printed Name of Witness

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

Signature

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

6/24/2016

Daniel W. Sexton

Printed Name of Witness

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

\_\_\_\_\_  
Liling REN

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

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

ss.

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

This \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_ before me personally came the above-named Liling REN, 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: Harold Woodruff Tomlinson Date: June 24, 2016  
Harold Woodruff TOMLINSON

Witnessed by: Wesley M Skiffington Date: 24 Jun 2016  
Signature

Wesley M Skiffington  
Printed Name of Witness

Witnessed by: Michael J. Hartman Date: 24 June 2016  
Signature

Michael J. Hartman  
Printed Name of Witness

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

\_\_\_\_\_  
Harold Woodruff TOMLINSON Date: \_\_\_\_\_

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

ss.

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

This \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_ before me personally came the above-named Harold Woodruff TOMLINSON, 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: Vincent P. Staudinger  
Vincent Paul STAUDINGER

Date: 6/24/2016

Witnessed by: K. Kopp  
Signature

Date: 6/24/2016

KARL KOPP  
Printed Name of Witness

Witnessed by: [Signature]  
Signature

Date: 6/26/2016

Daniel W. Sexton  
Printed Name of Witness

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

Vincent Paul STAUDINGER

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

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

ss.

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

This \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_ before me personally came the above-named Vincent Paul STAUDINGER, 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: \_\_\_\_\_  
Jeffrey Russell BULT

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

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**

Jeffrey Russell Bult  
Jeffrey Russell BULT

Date: 6/27/2016

STATE OF Michigan  
COUNTY OF Kent

ss.

This 27<sup>th</sup> day of June, 2016 before me personally came the above-named **Jeffrey Russell BULT**, 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

Kristine M Heald

(Notary Public)

KRISTINE M HEALD  
Notary Public, State of Michigan  
County of Kent  
My Commission Expires Oct 14, 2019  
Acting in the County of Kent



INVENTOR 5

Signature:   
Mauricio CASTILLO-EFFEN

Date: 6/24/2016

Witnessed by:   
Signature

Date: 6/24/2016

Hongwei Liao  
Printed Name of Witness

Witnessed by:   
Signature

Date: 6/24/2016

Yakov Pelishevsk  
Printed Name of Witness

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

\_\_\_\_\_  
Mauricio CASTILLO-EFFEN

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

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

ss.

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

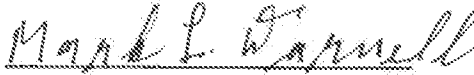
This \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_ before me personally came the above-named Mauricio CASTILLO-EFFEN, to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

Seal

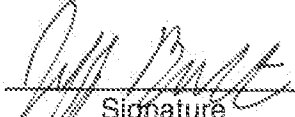
\_\_\_\_\_  
(Notary Public)

INVENTOR 6

Signature:  Date: 6-27-16  
Szabolcs Andras BORGYOS

Witnessed by:  Date: 6-27-16  
Signature

Mark L. Darrell  
Printed Name of Witness

Witnessed by:  Date: 6-27-16  
Signature

Jeff Bult  
Printed Name of Witness

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

\_\_\_\_\_  
Szabolcs Andras BORGYOS Date: \_\_\_\_\_

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

ss.

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

This \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_ before me personally came the above-named **Szabolcs Andras BORGYOS**, 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 7

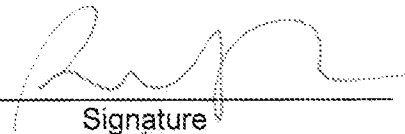
Signature:   
**Stephen KOSZALKA**

Date: 6/24/16

Witnessed by:   
Signature

Date: 6/24/16

Emerly Soong  
Printed Name of Witness

Witnessed by:   
Signature

Date: 6/24/16

Ricardo Rios  
Printed Name of Witness

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

Stephen KOSZALKA

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

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

ss.

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

This \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_ before me personally came the above-named **Stephen KOSZALKA**, 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)