

PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

EPAS ID: PAT6150669

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
MICHAEL ROBERT NOTARNICOLA	05/19/2020
JOSHUA TYLER MOOK	05/19/2020
KEVIN MICHAEL VANDEVOORDE	06/05/2020
AIGBEDION AKWARA	05/19/2020
MOHAMMED EL HACIN SENNOUN	05/19/2020
MARY KATHRYN THOMPSON	05/22/2020
SCOTT DOUGLAS WAUN	05/22/2020
MICHAEL THOMAS GANSLER	05/21/2020
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	
Property Type	Number
Application Number:	16878736
CORRESPONDENCE DATA	
Fax Number:	(864)233-7342
<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>	
Phone:	864-271-1592
Email:	usdocketing@dority-manning.com, aschaible@dority-manning.com
Correspondent Name:	DORITY & MANNING, P.A. AND GEC-AVIATION
Address Line 1:	POST OFFICE BOX 1449
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ATTORNEY DOCKET NUMBER:	501567-US-2/GE3D-233-1
NAME OF SUBMITTER:	ALAN R. MARSHALL
SIGNATURE:	/Alan R. Marshall/

DATE SIGNED:	06/12/2020
	This document serves as an Oath/Declaration (37 CFR 1.63).
Total Attachments: 11 source=501567-US-2_True_and_Accurate_Dec_and_Assignment_GE3D-233-1_12JUN2020#page1.tif source=501567-US-2_True_and_Accurate_Dec_and_Assignment_GE3D-233-1_12JUN2020#page2.tif source=501567-US-2_True_and_Accurate_Dec_and_Assignment_GE3D-233-1_12JUN2020#page3.tif source=501567-US-2_True_and_Accurate_Dec_and_Assignment_GE3D-233-1_12JUN2020#page4.tif source=501567-US-2_True_and_Accurate_Dec_and_Assignment_GE3D-233-1_12JUN2020#page5.tif source=501567-US-2_True_and_Accurate_Dec_and_Assignment_GE3D-233-1_12JUN2020#page6.tif source=501567-US-2_True_and_Accurate_Dec_and_Assignment_GE3D-233-1_12JUN2020#page7.tif source=501567-US-2_True_and_Accurate_Dec_and_Assignment_GE3D-233-1_12JUN2020#page8.tif source=501567-US-2_True_and_Accurate_Dec_and_Assignment_GE3D-233-1_12JUN2020#page9.tif source=501567-US-2_True_and_Accurate_Dec_and_Assignment_GE3D-233-1_12JUN2020#page10.tif source=501567-US-2_True_and_Accurate_Dec_and_Assignment_GE3D-233-1_12JUN2020#page11.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:

**CONSTANT DENSITY HEAT EXCHANGER AND SYSTEM FOR ENERGY
CONVERSION**

- ☐ the specification of which is attached hereto OR
- ☒ United States application or PCT international application number
16/878,736 filed on May 20, 2020, 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
Michael	Robert	Notarnicola	of	Cincinnati	Ohio	USA
Joshua	Tyler	Mook	of	Cincinnati	Ohio	USA
Kevin	Michael	VandeVoorde	of	Cincinnati	Ohio	USA
Aigbedion		Akwara	of	Cincinnati	Ohio	USA
Mohammed	El Hacin	Sennoun	of	West Chester	Ohio	USA

Mary	Kathryn	Thompson	of	Fairfield Township	Ohio	USA
Scott	Douglas	Waun	of	Loveland	Ohio	USA
Michael	Thomas	Gansler	of	Mason	Ohio	USA

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
US	Provisional	62/850,599	May 21, 2019	HEAT EXCHANGER ASSEMBLY
US	Provisional	62/850,623	May 21, 2019	ENGINE APPARATUS AND METHOD FOR OPERATION
US	Provisional	62/850,678	May 21, 2019	APPARATUS AND SYSTEM FOR ENERGY CONVERSION
US	Provisional	62/850,692	May 21, 2019	ENERGY CONVERSION APPARATUS AND CONTROL SYSTEM
US	Provisional	62/850,701	May 21, 2019	SYSTEM FOR ENERGY CONVERSION

(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: Michael Robert Notarnicola
Michael Robert Notarnicola

Date: 5/19/2020

Witnessed by: Travis Sandos
Signature

Date: 5/19/2020

TRAVIS SANDOS
Printed Name of Witness

Witnessed by: Janet Meeker
Signature

Date: 5/19/2020

Janet Meeker
Printed Name of Witness

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

Michael Robert Notarnicola Date: _____

STATE OF

ss.

COUNTY OF

This _____ day of _____, _____ before me personally came the above-named Michael Robert Notarnicola, 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: Joshua Tyler Mook
Joshua Tyler Mook

Date: 5/19/20

Witnessed by: William C. Murphy
Signature

Date: 5/19/20

WILLIAM C. MURPHY
Printed Name of Witness

Witnessed by: Janet Melker
Signature

Date: 5/19/20

Janet Melker
Printed Name of Witness

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

Joshua Tyler Mook

Date: _____

STATE OF

ss.

COUNTY OF

This _____ day of _____, _____ before me personally came the above-named **Joshua Tyler Mook**, 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: 
Kevin Michael VandeVoorde

Date: 06/05/2020

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

Kevin Michael VandeVoorde

Date: _____

STATE OF

ss.

COUNTY OF

This _____ day of _____, _____ before me personally came the above-named **Kevin Michael VandeVoorde**, 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: Aigbedion Akwara
Aigbedion Akwara

Date: 5/19/2020

Witnessed by: [Signature]
Signature

Date: 5/19/2020

TRAVIS SANDS
Printed Name of Witness

Witnessed by: [Signature]
Signature

Date: 5/19/2020

Janet Mekker
Printed Name of Witness

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

Aigbedion Akwara Date: _____

STATE OF

ss.

COUNTY OF

This _____ day of _____, _____ before me personally came the above-named Aigbedion Akwara, 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 5

Signature: M. H. Sennoun
Mohammed El Hacin Sennoun

Date: 5/19/2020

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

Mohammed El Hacin Sennoun

Date: _____

STATE OF

ss.

COUNTY OF

This _____ day of _____, _____ before me personally came the above-named Mohammed El Hacin Sennoun, 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: Mary Kathryn Thompson
Mary Kathryn Thompson

Date: 5/22/2020

Witnessed by: Trent Muhlkamp
Signature

Date: 5/22/2020

Trent Muhlkamp
Printed Name of Witness

Witnessed by: Kyle Steven Burgess
Signature

Date: 5/22/2020

Kyle Steven Burgess
Printed Name of Witness

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

Mary Kathryn Thompson Date: _____

STATE OF

ss.

COUNTY OF

This _____ day of _____, _____ before me personally came the above-named Mary Kathryn Thompson, 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: Scott Douglas Waun
Scott Douglas Waun

Date: 5/22/2020

Witnessed by: Trent Muhlkamp
Signature

Date: 5/22/2020

Trent Muhlkamp
Printed Name of Witness

Witnessed by: Kyle Steven Roemer
Signature

Date: 5/22/2020

Kyle Steven Roemer
Printed Name of Witness

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Scott Douglas Waun Date: _____

STATE OF

ss.

COUNTY OF

This _____ day of _____, _____ before me personally came the above-named Scott Douglas Waun 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 8

Signature: Michael T. Gansler
Michael Thomas Gansler

Date: 5/21/2020

Witnessed by: Peter Lueschen
Signature

Date: 5/21/2020

Peter Lueschen
Printed Name of Witness

Witnessed by: Brian Thompson
Signature

Date: 5/21/2020

Brian Thompson
Printed Name of Witness

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

Michael Thomas Gansler Date: _____

STATE OF

ss.

COUNTY OF

This _____ day of _____, _____ before me personally came the above-named **Michael Thomas Gansler**, 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)