

## PATENT ASSIGNMENT COVER SHEET

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Stylesheet Version v1.2

EPAS ID: PAT5219326

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
PAWEL ZIECINA	04/28/2016
SHILADITYA MUKHERJEE	04/25/2016
JAROSLAW WERONKO	04/28/2016
MARCIN KRZYSZTOF WACHULEC	04/28/2016
DANIEL TYLER JARBOE	04/29/2016
MICHAL TRUSZCZYNSKI	04/28/2016
PIOTR MICHALEC	04/28/2016
PAWEL TRZEPIOTA	04/28/2016
DOUGLAS MARTI FORTUNA	04/29/2016
<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>
Application Number:	16098515
<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>	513-243-5955
<b>Email:</b>	Claire.Murray@ge.com
<b>Correspondent Name:</b>	GENERAL ELECTRIC COMPANY GE AVIATION PAT
<b>Address Line 1:</b>	1 NEUMANN WAY
<b>Address Line 2:</b>	MAIL DROP F16
<b>Address Line 4:</b>	CINCINNATI, OHIO 45215
<b>ATTORNEY DOCKET NUMBER:</b>	284789-US-5
<b>NAME OF SUBMITTER:</b>	WILLIAM SCOTT ANDES

PATENT

<b>SIGNATURE:</b>	/William Scott Andes/
<b>DATE SIGNED:</b>	11/02/2018
<b>Total Attachments: 11</b> source=284789-US-5-Combined-Dec-Assg#page1.tif source=284789-US-5-Combined-Dec-Assg#page2.tif source=284789-US-5-Combined-Dec-Assg#page3.tif source=284789-US-5-Combined-Dec-Assg#page4.tif source=284789-US-5-Combined-Dec-Assg#page5.tif source=284789-US-5-Combined-Dec-Assg#page6.tif source=284789-US-5-Combined-Dec-Assg#page7.tif source=284789-US-5-Combined-Dec-Assg#page8.tif source=284789-US-5-Combined-Dec-Assg#page9.tif source=284789-US-5-Combined-Dec-Assg#page10.tif source=284789-US-5-Combined-Dec-Assg#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:

TURBINE ENGINE WITH A SWIRLER



the specification of which is attached hereto OR

United States application or PCT international application number

\_\_\_\_\_ 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 Name	Inventor Middle Name	Inventor Last Name		Residence Town	Residence State	Residence Country
Pawel		Ziecina	of	Warszawa		PL
Shiladitya		Mukherjee	of	West Chester	OH	US
Jaroslav		Weronko	of	Warszawa		PL
Marcin	Krzysztof	Wachulec	of	Chieri		IT
Daniel	Tyler	Jarboe	of	West Chester	OH	US
Michal		Truszczynski	of	Jozefow		PL
Piotr		Michalec	of	Borowie		PL
Pawel		Trzeplota	of	Warszawa		PL
Douglas	Marti	Fortuna	of	Cincinnati	OH	US

v9.18.12

hereby sell and assign to:

<b>Name of Company: General Electric Company</b>
<b>Entity Type (optional): a New York Corporation</b>
<b>Address: 1 River Road, Schenectady, New York 12345</b>

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
PL	PRI	P.417315	MAY 25, 2016	
WO	PCT	PCT/US17/33237	MAY 18, 2017	

(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: Pawel Ziecina  
Pawel Ziecina

Date: 04.28.2016

Witnessed by: Tomasz Blaszczyk  
Signature  
TOMASZ BLASZCZYK  
Printed Name of Witness

Date: 04-28-2016

Witnessed by: Tomasz Gawronski  
Signature  
TOMASZ GAWRONSKI  
Printed Name of Witness

Date: 04-28-2016

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

\_\_\_\_\_  
Pawel Ziecina Date: \_\_\_\_\_

STATE OF \_\_\_\_\_  
COUNTY OF \_\_\_\_\_ SS.

This \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_ before me personally came the above-named **Pawel Ziecina**, 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: Shiladitya Mukherjee  
Shiladitya Mukherjee

Date: 04-25-2016

Witnessed by: [Signature]  
Signature

Date: 4-25-2016

Michael Vadness  
Printed Name of Witness

Witnessed by: [Signature]  
Signature

Date: 04/25/2016

Dhanashegaran Shanmugam  
Printed Name of Witness

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

\_\_\_\_\_  
Shiladitya Mukherjee

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

STATE OF

ss.

COUNTY OF

This \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_ before me personally came the above-named Shiladitya Mukherjee, 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: Jaroslaw Weronko  
Jaroslaw Weronko

Date: 04-28-2016

Witnessed by: Marek Chlinski  
Signature

Date: 04-28-2016

MAREK CHILINSKI  
Printed Name of Witness

Witnessed by: Tomasz Gawronski  
Signature

Date: 04-28-2016

TOMASZ GAWRONSKI  
Printed Name of Witness

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

\_\_\_\_\_  
Jaroslaw Weronko Date: \_\_\_\_\_

STATE OF

ss.

COUNTY OF

This \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_ before me personally came the above-named **Jaroslaw Weronko**, 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: *Marcin Wachulec*  
Marcin Krysztof Wachulec

Date: April 28, 2016

Witnessed by: *[Signature]*  
Signature

Date: 28-07-2016

PAWEŁ RADZIŚCIEŃSKI  
Printed Name of Witness

Witnessed by: *[Signature]*  
Signature

Date: 04-28-2016

BARTOŃ BARTOŃSKI  
Printed Name of Witness

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

\_\_\_\_\_  
Marcin Krysztof Wachulec

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

STATE OF

ss.

COUNTY OF

This \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_ before me personally came the above-named Marcin Krysztof Wachulec, 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: *Daniel T. Jarboe*  
Daniel Tyler Jarboe

Date: 4/29/2016

Witnessed by: *[Signature]*  
Signature

Date: 4/29/2016

Dawn K. Duckett  
Printed Name of Witness

Witnessed by: *[Signature]*  
Signature

Date: 4/29/2016

WAYNE L. ROBBINS  
Printed Name of Witness

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

\_\_\_\_\_  
Daniel Tyler Jarboe

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

STATE OF

ss.

COUNTY OF

This \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_ before me personally came the above-named Daniel Tyler Jarboe, 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: Michal Truszczynski  
Michal Truszczynski

Date: 04-28-2016

Witnessed by: Pauli  
Signature

Date: 04-28-2016

PAWEŁ RADZISZEWSKI  
Printed Name of Witness

Witnessed by: Bartosz  
Signature

Date: 04-28-2016

BARTOŚL BARTOŚKO  
Printed Name of Witness

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\_\_\_\_\_  
Michal Truszczynski

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

STATE OF \_\_\_\_\_  
COUNTY OF \_\_\_\_\_ ss.

This \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_ before me personally came the above-named Michal Truszczynski, 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: Piotr Michalec  
Piotr Michalec

Date: 04-28-2016

Witnessed by: Piotr Markiewicz  
Signature

Date: 04-28-2016

PIOTR MARKIEWICZ  
Printed Name of Witness

Witnessed by: Adam Tralewski  
Signature

Date: 04-28-2016

ADAM TRALEWSKI  
Printed Name of Witness

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

\_\_\_\_\_  
Piotr Michalec Date: \_\_\_\_\_

STATE OF \_\_\_\_\_  
COUNTY OF \_\_\_\_\_ ss.

This \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_ before me personally came the above-named Piotr Michalec, 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: Pawel Trzepiota  
Pawel Trzepiota

Date: 04-28-2016

Witnessed by: Tomasz Blaszczyk  
Signature

Date: 04-28-2016

TOMASZ BLASZCZYK  
Printed Name of Witness

Witnessed by: Tomasz Gawronski  
Signature

Date: 04-28-2016

TOMASZ GAWRONSKI  
Printed Name of Witness

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

\_\_\_\_\_  
Pawel Trzepiota

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

STATE OF

ss.

COUNTY OF

This \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_ before me personally came the above-named **Pawel Trzepiota**, 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 9

Signature: Douglas Marti Fortuna  
Douglas Marti Fortuna

Date: 4/29/2016

Witnessed by: Raymond Casanta  
Signature

Date: 4/29/2016

Raymond Casanta  
Printed Name of Witness

Witnessed by: Pien K. Duckett  
Signature

Date: 4/29/2016

Pien K. Duckett  
Printed Name of Witness

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

\_\_\_\_\_  
Douglas Marti Fortuna

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

STATE OF

ss.

COUNTY OF

This \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_ before me personally came the above-named Douglas Marti Fortuna, 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)