## PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT5471296

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	

#### **CONVEYING PARTY DATA**

Name	Execution Date
HANS-PETER BOSSMANN	04/08/2019
MARYAM BAHRAINI HASANI	04/11/2019

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## **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	15349394

## CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	0087748-000399	
NAME OF SUBMITTER:	DAVID AVILA	
SIGNATURE:	/David Avila/	
DATE SIGNED:	04/12/2019	
	This document serves as an Oath/Declaration (37 CFR 1.63).	

## **Total Attachments: 5**

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**PATENT** REEL: 048867 FRAME: 0147 505424505

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PATENT REEL: 048867 FRAME: 0148

# COMBINED DECLARATION AND ASSIGNMENT (JOINT)

As one of the below named inventors, I hereby declare that this Declaration is directed to:

(1) 🖾		U.S. application number or PCT international application number 15/349,394 filed or
		November 11, 2016, entitled GAS TURBINE PART AND METHOD FOR MANUFACTURING SUCH GAS; or
(2)		the attached application entitled GAS TURBINE PART AND METHOD FOR MANUFACTURING SUCH GAS

## **DECLARATION**

As one of the below named inventors, I further declare that:

The above-identified application was made or authorized to be made by me.

I believe that I am an original joint inventor of a claimed invention in the application.

I have reviewed and understand the contents of the above-identified application, including the claims.

I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

# **ASSIGNMENT**

THIS ASSIGNMENT, by the undersigned inventors (hereinafter referred to as "the Assignors"), respectively, witnesseth:

WHEREAS, the Assignors have invented certain new and useful improvements set forth in the application for Letters Patent of the United States identified above;

WHEREAS, ANSALDO ENERGIA IP UK LIMITED, a corporation duly organized under and pursuant to the laws of GREAT BRITAIN and having a principal place of business at 5th Floor, North Side, 7/10 Chandos Street, Cavendish Square, London, W1G 9DQ, Great Britain (hereinafter referred to as "the Assignee"), is desirous of acquiring the entire right, title, and interest in and to said inventions, the right to file applications on said inventions and the entire right, title and interest in and to any applications, including provisional applications for Letters Patent of the United States or other countries claiming priority to said application, and in and to any Letters Patent or Patents, United States or foreign, to be obtained therefor and thereon.

NOW. THEREFORE, for good and sufficient consideration, the receipt of which is hereby acknowledged, the Assignors have sold, assigned, transferred, and set over, and by these presents does sell, assign, transfer, and set over, unto the Assignee, its successors, legal representatives, and assigns the entire right, title, and interest in and to the above-mentioned inventions, the right to file applications on said inventions and the entire right, title and interest in and to any applications for Letters Patent of the United States or other countries claiming priority to said applications, and any and all Letters Patent or Patents of the United States of

PATENT REEL: 048867 FRAME: 0149 America and all foreign countries that may be granted therefor and thereon, and in and to any and all applications claiming priority to said applications, divisions, continuations, and continuations-in-part of said applications, and reissues and extensions of said Letters Patent or Patents, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by the Assignee, for its own use and behoof and the use and behoof of its successors, legal representatives, and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted as fully and entirely as the same would have been held and enjoyed by the Assignors had this sale and assignment not been made;

AND for the same consideration, the Assignors hereby coverant and agree to and with the Assignee, its successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, the Assignors are the sole and lawful owners of the entire right, title, and interest in and to the inventions set forth in said applications and said applications, including provisional applications, above-mentioned, and that the same are unencumbered, and that the Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth;

AND for the same consideration, the Assignors hereby covenant and agree to and with the Assignee, its successors, legal representatives, and assigns that the Assignors will, whenever counsel of the Assignee, or the counsel of its successors, legal representatives, and assigns, shall advise that any proceeding in connection with said inventions or said applications for Letters Patent or Patents, or any proceeding in connection with Letters Patent or Patents for said inventions in any country, including interference proceedings, is lawful and desirable, or that any application claiming priority to said application, division, continuation, or continuation-inpart of any applications for Letters Patent or Patents, or any reissue or extension of any Letters Patent or Patents to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and deall acts necessary or required to be done for the procurement, maintenance, enforcement, and defense of Letters Patent or Patents for said inventions, without charge to the Assignee, its successors, legal representatives, and assigns; but at the cost and expense of the Assignee, its successors, legal representatives, and assigns;

AND the Assignors hereby request the Commissioner of Patents to issue any and all said Letters Patent of the United States to the Assignee as the Assignee of said Inventions, the Letters Patent to be issued for the sole use and behapf of the Assignee, its successors, legal representatives, and assigns.

5th April 2019	Hans-Peter BOSSMANN	
Date	Name	Signature
		and the second s
	Maryam BAHRAINI HASANI	
Date	Name	Signature

Doc code: Oath

Document Description: Oath or declaration filed

PTOVAIANO2 (873-15)
Approved for use through 04/30/2017, OMB 9851-9809
U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

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# SUBSTITUTE STATEMENT IN LIEU OF AN OATH OR DECLARATION FOR UT OR DESIGN PATENT APPLICATION (35 U.S.C. 115(d) AND 37 CFR 1.64)

Title of Invention	GAS TURBINE PART AND METHOD FOR MANUFACTURING SUCH GAS			
This stateme	nt is directed to:			
The att	The attached application,			
OR				
	15/349 394 November 11, 2016			
United 8	Itates application or PCT international	application number	med on	······································
LEGAL NA	ME of inventor to whom this sul	ostitute statement appli	&&;	
(E.g., Given	Name (first and middle (if any)) and F	amily Name or Surname)		
Maryan	BAHRAINI HASANI			
Residence (s	xcept for a deceased or legally incept	icitated inventor):		
<sub>City</sub> LUF	FIG	State	Switzerla	and
Mailing Addre	s (except for a deceased or legally incapa	citated inventor):		
Bahnhol	strasse 12			
<sub>City</sub> LUF	FIG	State	<sub>zio</sub> 5242	Switzerland Country
I believe the above-named inventor or joint inventor to be the original inventor or an original joint inventor of a claimed invention in the application.				
The above-identified application was made or authorized to be made by me.				
The above-i		orized to be made by me.		
l hereby ack		ent made in this statement i	s punishable under 18 U.S.	C. 1001 by fine or
I hereby ack imprisonr	tentified application was made or auth	ent made in this statement i r both.	s punishable under 18 U.S.	C. 1001 by fine or
I hereby ack imprison Relationshi	dentified application was made or auth nowledge that any willful false statement of not more than five (5) years, o	ent made in this statement in the statement in the statement in the statement applies;		C. 1001 by fine or
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I hereby ack imprisons Relationshi	dentified application was made or authorised application was made or authorised application was made or authorised application for the inventor to whom this substitute and the inventor is under an application to whom the inventor is under an application to whom the inventor is under an	ent made in this statement in both.  te statement applies: egally incapacitated invento abligation to assign,	r only),	

[Page 1 of 2]

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.83. The information is required to obtain or retain a banefit by the public which is to file (and by the USPTC to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 1 minute to complete, including gashering, preparing, and submitting the completed application form to the USPTC. Time will vary depending upon the individual case. Any comments on this amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Petent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS, SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTC-9199 and select uplion 2.

# SUBSTITUTE STATEMENT

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Circumstances permitting execution of this s	ubstitute statement:			
Inventor is deceased.				
Inventor is under legal incapacity,				
Inventor cannot be found or reached after diligent effort, or				
Inventor has refused to execute the oath or declaration under 37 CFR 1,63.				
If there are joint inventors, please check the	If there are joint inventors, please check the appropriate box below:			
An application data sheet under 37 CFR 1.76 (PTO/AIA/14 or equivalent) naming the entire inventive entity has been or is currently submitted.				
OR				
Statement Supplemental Sheet (PT	An application data sheet under 37 CFR 1.76 (PTO/AIA/14 or equivalent) has not been submitted. Thus, a Substitute Statement Supplemental Sheet (PTO/AIA/11 or equivalent) naming the entire inventive entity and providing inventor information is attached. See 37 CFR 1.64(b).			
	WARNIN	IG:		
Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO o support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioner/applicants should consider reducting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a potent. Furthermore, the record from an abandoried application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card, authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.				
ERSON EXECUTING THIS SUBSTITUTE S	TATEMENT:			
Name: Bartolomeo MARCENARO				
Signature:	distriction of the second			
APPLICANT NAME AND TITLE OF PERSON EXECUTING THIS SUBSTITUTE STATEMENT:				
f the applicant is a juristic entity, list the applic				
ANSALDO ENERGIA Applicant Name:	A IP UK LIMITE	D		
Title of Person Executing Proxy Holder This Substitute Statement:	- Head of IP N	/lanagement	***************************************	
The signer, whose title is supplied above, is authorized to act on behalf of the applicant.				
Residence of the signer (unless provided i	n an application da	ta sheet, PTD/AIA/14 o	n editivalent):	
<b></b>	State	Country		
Gity Mailing Address of the signer (unless pro-			IA/14 or equivalent)	
City	State	Zip	Country	
Note: Use an additional PTO/AIA/02 form for	each inventor who is	deceased, legally incap		
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[Page 2 of 2]

#### Privacy Act Statement

The **Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

- The information on this form will be treated confidentially to the extent allowed under the
  Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from
  this system of records may be disclosed to the Department of Justice to determine whether
  disclosure of these records is required by the Freedom of Information Act.
- A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
- 3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
- 4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
- A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
- 6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
- 7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
- 8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
- A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

PATENT REEL: 048867 FRAME: 0153

**RECORDED: 04/12/2019**