### 503497004 09/25/2015

### **PATENT ASSIGNMENT COVER SHEET**

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3543629

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
Gideon Daniel VENTER	09/17/2015
Michael John MOUNTNEY	09/16/2015

### **RECEIVING PARTY DATA**

Name: Rolls-Royce plc			
Street Address:	62 Buckingham Gate		
City:	London		
State/Country:	Great Britain		
Postal Code:	SW1E 6AT		
Name:	ROLLS-ROYCE DEUTSCHLAND LTD & CO KG		
Street Address:	ESCHENWEG 11, OT, 15827 BLANKENFELDE-MAHLOW		
City:	DAHLEWITZ		
State/Country:	GERMANY		

### **PROPERTY NUMBERS Total: 1**

Property Type	Number		
Application Number:	14866113		

### **CORRESPONDENCE DATA**

**Fax Number:** (703)836-2787

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.

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Email: email@oliff.com
Correspondent Name: JAMES A. OLIFF
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Address Line 2: P.O. BOX 320850

Address Line 4: ALEXANDRIA, VIRGINIA 22320-4850

ATTORNEY DOCKET NUMBER:	168022
NAME OF SUBMITTER:	ANTOINETTE SHARP
SIGNATURE:	/Antoinette Sharp/
DATE SIGNED:	09/25/2015

PATENT 503497004 REEL: 036661 FRAME: 0082

# Total Attachments: 4 source=Assignment#page1.tif source=Assignment#page2.tif source=Assignment#page3.tif source=Assignment#page4.tif

PATENT REEL: 036661 FRAME: 0083

## ASSIGNMENT (BEING FILED FOR DUAL PURPOSE UNDER 37 CFR 1.63(e)) For Application with Filing Date on or after September 16, 2012

### ASSIGNMENT

	insuri	(1)	GIDEON DANIEL VENTER	(2)	MICHAEL JOHN MOUNTNEY	
(1-8)	Legal Name(s)	(3)		(4)		
	of inventor(s)	(5)		(6)		
		(7)		(8)		
		me on	sideration of the sum of one dollar (\$1.58 dersigned, the receipt and sufficiency of , and hereby does assign, transfer and set	Which are h	pood and valuable consideration paid to each of emby acknowledged, cach undersigned agrees to	
(9)	insert Name of Assignee	(9)	ROLLS-ROYCE pic			
(10)	Assignee	Insert Name of (9) Rolls-Royce DEUTSCHLAND LTD & CO KG				
(9)	Assignee					
(10)	Insert Address of Assignce	(01)	)) Eschenweg 11, OT, 15827 Blankenfelde-Mahlow, Dahlewitz, Germany			
		invent contin	ive right, the and interest for the United on, and in all applications for patent incl	States of As luding any a litute and rei	tins, successors, assigns and legal representatives, merica as defined in 35 U.S.C. §100, in the and all provisional, non-provisional, divisional, sate application(s), and all Letters Patent, y be granted on the invention known as	
(11)	Insert Identification such as Title, Case Number, or Faseign Application Number	(11)	A GAS TURBINE ARCHITECTURE			
			70873 NJR			
		(Attor	ney Docket No.			
(12)	Alternative	(12)	U.S. Application Number			
	Identification for		······	a		
	filed applications	filed	<< Application Date>>			
	N. Carlo and and and and				***************************************	

 Each undersigned agrees to execute all papers necessary in connection with any application und/or patent for the invention and also to execute separate assignments in connection with such applications and patents as the Assignee may deem necessary.

2) Each undersigned agrees to execute all papers necessary in connection with any interference which may be declared concerning any application or patents for the invention and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.

 Each undersigned agrees to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

4) Each undersigned agrees to perform all affirmative acts which may be necessary to obtain, maintain or confirm by reissue or reexamination a grant of a valid United States patent to the Assignee.

5) Each undersigned authorizes and requests the Commissioner of the U.S. Patent and Trademark Office and other issuing authorities to issue any and all patents resulting from said application(s) to the said Assignee, as Assignee of the entire interest, and covenants that he has full right to convey the entire interest herein assigned, and that he has not executed, and will not execute, any agreement(s) in conflict herewith, and agrees that this assignment is binding on Assignor and Assignor's heirs, successors, assigns and legal representatives.

6) Each undersigned hemby grants the firm of OLIFF PLC the power to insert on this assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

### (13) Declaration

As an above named inventor, I hereby declare that:

I believe I am the original inventor or an original joint inventor of a claimed invention (or claimed design) in the above-identified application for which this declaration is being submitted.

The application was made or authorized to be made by me.

I have reviewed and understand the contents of the above-identified application, including the claims, and am aware of the duty to disclose to the Office all information known to use to be material to patentability as defined in 37 CFR §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.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Dute	17 SCH125M615H 2013	inventor Signature	GIDEON DANIEL VENTER	(SEAL)
Date		Inventor Signature	MICHAEL JOHN MOUNTNEY	(SEAL)
Date		Saventor Signature		(SEAL)
Date		Isvestor Signature		SEAL)
neithe	This assignment should preferably be signed by, then it should be signed before at least two with	efore: (a) a Nutary Pub Ecsses who also sign he	fic if within the U.S.A. (b) a U.S. Consul if outside the L re:	J.S.A. If
Date	17 September 2015	Witsess for Gideon Duniel Venter	MICHAL PANEL	<u>Cour</u> l
Date	17 September 2015	Witness for Gideon Baniel Venter	OETIEV BRACKER 10	<u>x cc</u>
Date		Witness for Michael John Mountagy		
Date		Witness for Michael John Mountney		

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### ASSIGNMENT

CIDEON DANIEL MENTER

	Instit	(1)	GIDEON DANIEL VENTER	(2)	MICHAEL JOHN MOUNTNEY		
(1-8)	Legal Name(s)	(3)		(4)			
	of Inventor(s)	(5)		(6)			
		(7)		(8)			
		the un		of which are l	er good and valuable consideration paid to each of hereby acknowledged, each undersigned agrees to		
(9)	Insert Name of Assignee	(9)	ROLLS-ROYCE plc				
(10)	Insert Address of Assignee	(10)	65 Buckingham Gate, London, SW1E 6AT, Great Britain				
(9)	Insert Name of Assignee	(9)	Rolls-Royce DEUTSCHLAND LTD & CO KG				
(10)	Insert Address of Assignee	(10)	(10) Eschenweg 11, OT, 15827 Blankenfelde-Mahlow, Dahlewitz, Germany				
		the ent invent contin	ire right, title and interest for the Unit- ion, and in all applications for patent in uation, international, confirmation, sub-	ed States of A neluding any bstitute and re	neirs, successors, assigns and legal representatives, America as defined in 35 U.S.C. §100, in the and all provisional, non-provisional, divisional, pissue application(s), and all Letters Patent, ay be granted on the invention known as		
(11)	Insert Identification such as Title, Case Number, or Foreign Application Number	(11)	A GAS TURBINE ARCHITECTU	RE			
		70873 NJR					
		(Attor	ney Docket No.		)		
(12)	Alternative Identification for	(12)	U.S. Application Number				
	filed applications	filed	< <application date="">&gt;</application>				

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- 4) Each undersigned agrees to perform all affirmative acts which may be necessary to obtain, maintain or confirm by reissue or reexamination a grant of a valid United States patent to the Assignee.
- 5) Each undersigned authorizes and requests the Commissioner of the U.S. Patent and Trademark Office and other issuing authorities to issue any and all patents resulting from said application(s) to the said Assignee, as Assignee of the entire interest, and covenants that he has full right to convey the entire interest herein assigned, and that he has not executed, and will not execute, any agreement(s) in conflict herewith, and agrees that this assignment is binding on Assignor and Assignor's heirs, successors, assigns and legal representatives.
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In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date		Inventor Signature	GIDEON DANIEL VENTER	(SEAL)
Date	M Mountrey	Inventor Signature	MICHAEL JOHN MOUNTNEY	(SEAL)
Date		Inventor Signature		(SEAL)
Date	-	Inventor Signature		(SEAL)
neither	This assignment should preferably be signed; then it should be signed before at least two wi	before: (a) a Notary Pul itnesses who also sign he Witness for	olic if within the U.S.A. (b) a U.S. Consul if orere:	utside the U.S.A. If
Date		Gideon Daniel Venter		
Date		Witness for Gideon Daniel Venter		
Date	16 <sup>74</sup> SEPTEMBER 2015	Witness for Michael John Mountney	ADuguid ADAM DUC	5ULD
Date	16 TH SEPTEMBER 2015	Witness for Michael John Mountney	MISSABI WILLIAM	POTTER