#### 504206020 01/31/2017

# PATENT ASSIGNMENT COVER SHEET

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**SUBMISSION TYPE: NEW ASSIGNMENT NATURE OF CONVEYANCE: ASSIGNMENT** 

### **CONVEYING PARTY DATA**

Name	Execution Date
Thomas G MULCAIRE	01/12/2017
Robert A HICKS	01/12/2017
Marcus FOALE	01/17/2017

### **RECEIVING PARTY DATA**

Name:	Rolls-Royce PLC	
Street Address: 62 Buckingham Gate		
City:	London	
State/Country:	Great Britain	
Postal Code:	SW1E 6AT	

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

Property Type	Number
Application Number:	15421030

### 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.

Phone: 703-836-6400 Email: email@oliff.com **Correspondent Name:** JAMES A. OLIFF Address Line 1: **OLIFF PLC** 

Address Line 2: P.O. BOX 320850

Address Line 4: ALEXANDRIA, VIRGINIA 22320-4850

ATTORNEY DOCKET NUMBER: 174915 NAME OF SUBMITTER: **VERN HYSLOP** SIGNATURE: /Vern Hyslop/ **DATE SIGNED:** 01/31/2017

**Total Attachments: 4** 

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**PATENT** 

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PATENT REEL: 041137 FRAME: 0467

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

# ASSIGNMENT

(1-8)	Insert Legal Name(s) Inventor(s)	` . s	MULCAIRE, Thomas G;	
		) 01	HICKS, Robert A;	
	was museus (m)		FOALE, Marcus	
	In consideration of the sum of sufficiency of which are hereb	one dolla y acknow	r (\$1.00) and other good and valuable consideration paid to each of the undersigned, the receipt to bedged, each undersigned agrees to assign, and hereby does assign, transfer and set over to	and
(9)	Insert Name of Assig	gnee	ROLLS-ROYCE plc	
(10)	Insert Address of As	ssignee	62 Buckingham Gate, London, SW1E 6AT, Great Britain	*****
	for the United States of Ameri- provisional, non-provisional, d	ca as defi livisional,	and Assignce's heirs, successors, assigns and legal representatives, the entire right, title and inter- ned in 35 U.S.C. §100, in the invention, and in all applications for putent including any and all continuation, international, confirmation, substitute and reissue application(s), and all Letters nation certificates that may be granted on the invention known as	rest
(11)	Insert Identification	(11)	A Combustion Chamber	
	such as Title, Case Number, or Foreign	•	6056 TAL	AXXXXXX
	Application Number	(Attor	ney Docket No.	)
	110010310001		***************************************	· .
(12)	Alternative	(12)	U.S. Application Number	
	Identification for			
	filed applications	filed		
	for the invention and as the Assignee may d  2) Each undersigned ag be declared concernin every way possible in  3) Each undersigned ag necessary in connectic Industrial Property or  4) Each undersigned ag confirm by reissue or  5) Each undersigned at other issuing authoriti as Assignee of the ent assigned, and that he lagrees that this assign representatives.  6) Each undersigned he identification that may	also to collect negrees to grany a containing rees to contain the similar preces to reexamulatorize es to issing interinter that not contain the same is creby grand precessory be necessory to the contains the same is creby grand to the same is creby grand the same is creby grand to the contains the same is creby grand the same is creby gran	execute all papers necessary in connection with any interference which may optication or patents for the invention and to cooperate with the Assignee in an evidence and going forward with such interference. execute all papers and documents and perform any act which may be claims or provisions of the International Convention for Protection of	ots y i

PATENT REEL: 041137 FRAME: 0468

### (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 me 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 opposite the undersigned name.

2.6.2.2.2.200	
(Print name) Mulcaire, Thomas G	
Date 12 TANUARY 2017 Inventor Signature Thomas Million	(SEAL)
This assignment should preferably be signed before: (a) a Notary Public if within the U.S.A Consul if outside the U.S.A. If neither, then it should be signed before at least two witnesses who	i. (b) a U.S. also sign here:
Box 12th January 2017 Wilness No Metrolike	Marin Indiana
Dute 12 JANUARY 2017 Witness M. SYLLLEY	

### (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 me to be material to patentability as defined in 37 CFR 81.56

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 opposite the undersigned name.

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(Print	name) HICKS, Robert A		-//1/1/0
Date	12 January 2017	Inventor Signature	LACOU. (SEAL)
Cons	This assignment should preferably be ut if outside the U.S.A. If neither, then	signed before: (a it should be signe	a Notary Public if within the U.S.A. (b) a U.S. ad before at least two witnesses who also sign here:
Date	12th January 2017	Witness	Mor Mulcalde.
Date	12th Tang 2017	Witness	25.5

PATENT REEL: 041137 FRAME: 0470

### (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 me 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 opposite the undersigned name.

Invent	ior				
(Print	285838360}	FOALE, Marcus			
Bate	1-7 12/4	January 2017	Inventor Signature		(SEAL)
Cons	This assign of if outside	priment should preferably be the U.S.A. If neither, then	e signed before: (a it should be sign	i) a Notary Public if within the U.S.A. (b) ad before at least two witnesses who also	a U.S. sign here:
Date	H. Z	<u> </u>	Witness	1 and	<b>~</b>
Date	1766	MUNILY ZO! 7	Witness	<u>Luv</u>	

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RECORDED: 01/31/2017