503356210 06/18/2015

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3402832

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Quentin Luc BALANDIER	06/16/2015
Douglas Alexander CHALMERS	06/16/2015

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:	14743181

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:	166724
NAME OF SUBMITTER:	JACK MURRAY
SIGNATURE:	/Jack Murray/
DATE SIGNED:	06/18/2015

Total Attachments: 3

source=166724_Assignment#page1.tif source=166724_Assignment#page2.tif source=166724_Assignment#page3.tif

PATENT 503356210 REEL: 035861 FRAME: 0822

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

ASSIGNMENT

	Insert	(1)	Quentín Luc Balandier	(2)	Douglas Alexander Chalmers	
(1-8)	Legal Name(s)	(3)		(4)		
	of Inventor(s)	(5)		(6)		
		(7)		(8)		
		In consideration of the sum of one dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned, the receipt and sufficiency of which are hereby acknowledged, each undersigned agrees to assign, and hereby does assign, transfer and set over to				
(9)	Insert Name of Assignee (9) ROLLS-ROYCE PLC					
(10)	Insert Address of Assignee	(10)	62 Buckingham Gate, London, SW1E 6AT, Great Britain			
		the en invent contin	tire right, title and interest for the ion, and in all applications for pa uation, international, confirmatic	e United States of A atent including any a on, substitute and re	irs, successors, assigns and legal representatives, merica as defined in 35 U.S.C. §100, in the and all provisional, non-provisional, divisional, issue application(s), and all Letters Patent, by be granted on the invention known as	
(11)	Insert Identification such as Title, Case	(11)	An Annular Combustion Char	mber Wall Arranger	ment	
	Number, or Foreign		5528 TAL			
	Application Number	(Attor	ney Docket No.)	
(12)	Alternative Identification for	(12)	U.S. Application Number	14	/743,181	
	filed applications	filed	< <application date="">></application>	June 18	3, 2015	

- 1) Each undersigned agrees to execute all papers necessary in connection with any application and/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.
- 3) 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 hereby 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 me to be material to patentability as defined in 37 CFR §1.56.

1 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.

white		life (play		
16/6/13	Inventor Signature	Douglas Alexander Chalmers	(SEAL)	
	laventor Signature		(SEAL)	
	Inventor Signature		(SEAL)	
WHEN A JUNE BUILD AND AND AND AND AND AND AND AND AND AN	Inventor Signature	washasanin madala sindra ada sa a sa a sa a sa a sa a sa a sa	(SEAL)	
	Inventor Signature		(SEAL)	
	Inventor Signature		(SEAL)	
	Inventor Signature		(SEAL)	
t should be signed before at least two wime	esses who also sign here: Witness for Quentin Luc	rithin the U.S.A. (b) a U.S. Consul if outside the		
2015-06-1 6		SASON KERMETT Jun	H	
2015-06-16	Witness for Douglas Alexander Chalmers	Kevan Cote Illa		
	Witness for		The second secon	
		•		
	Witness for			

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

Date	16 SUNE 2015	Inventor Signature Quentin Luc Balandier Bulaul	(SEAL)
Date		Inventor Signature Douglas Alexander Chaimers	(SEAL)
Date		Inventor Signature	(SEAL)
Date	MATERIAL STATE OF THE STATE OF	Inventor Signature	(SEAL)
Date		Inventor Signature	(SEAL)
Date	***************************************	Inventor Signature	(SEAL)
Date		Inventor Signature	(SEAL)
Date	4 0.00000000000000000000000000000000000	Inventor Signature	(SEAL)
	signment should preferably be signed before: should be signed before at least two witnesses	(a) a Notary Public if within the U.S.A. (b) a U.S. Consul if outside the U.S who also sign here:	A. If neither,
Date	16 JUNE 2015.	Witness for Quentin Luc MICHAEL JOHN BOWLEY &	Mowley-
Date	16 JUNE 2015	Witness for Quentin Luc Balandier STEPHEN JAMES OWEN	<u>8.</u> JO
Date		Witness for Douglas Alexander Chalmers	room e me andre e mande e e e e e e e e e e e e e e e e e e
Date		Witness for Douglas Alexander Chalmers	
Date		Witness for	
Date	, , , , , , , , , , , , , , , , , , , ,	Witness for	
Date	49.44.44	Witness for	
Date		Witness for	