# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3924099

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
Frederic WITHAM	05/10/2016
STEVEN P JONES	05/19/2016
JONATHAN M GREGORY	06/02/2016
Timothy MINCHIN	05/04/2016
David CLARKE	05/27/2016
David STEELE	05/10/2016

### **RECEIVING PARTY DATA**

Name:	ROLLS-ROYCE PLC	
Street Address:	Address: 62 BUCKINGHAM GATE	
City:	LONDON	
State/Country: GREAT BRITAIN		
Postal Code:	SW1E 6AT	

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

Property Type	Number	
Application Number:	15185596	

### **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@oliff.com Email: JAMES A. OLIFF **Correspondent Name: OLIFF PLC** Address Line 1:

Address Line 2: P.O. BOX 320850

Address Line 4: ALEXANDRIA, VIRGINIA 22320-4850

ATTORNEY DOCKET NUMBER:	171558
NAME OF SUBMITTER:	VERN HYSLOP
SIGNATURE:	/Vern Hyslop/
DATE SIGNED:	06/17/2016
	This document serves as an Oath/Declaration (37 CFR 1.63).

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# 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)	) of	Witham, Esci; Jones, Steven P; Gregory, Jonathan M; Minchin, Timothy; Clarke, David; Steele, David			
			r (\$1,00) and other good and valuable consideration paid to each of the undersigned, the receipt and designed, each undersigned agrees to assign, and hereby does assign, transfer and set over to			
(9)	Insert Name of Assi	ince	ROLLS-ROYCE pic			
(10)	Insert Address of As	signee				
	for the United States of Ameri provisional, non-provisional,	ca as defi livisional	and Assigner's heirs, successors, ussigns and legal representatives, the entire right, title and interest ined in 35 U.S.C. §100, in the invention, and is all applications for patent including any and all continuation, international confirmation, substitute and reissue application(s), and all Latters is attempt certificates that may be granted on the invention known as			
(11)	Insert Identification	(11)	Fuel Spray Nozzle for a Gas Turbine Engine			
	such as Title, Case Number, or Foreign		5874 VT			
	Application Number	(Attor	mey Docket No. 171558 )			
(12)	Alternative	(12)	U.S. Application Number			
	Identification for filed applications	filed	June 9, 2016			
	for the invention and as the Assignee may (2) Each undersigned a be declared concerning every way possible in 3) Each undersigned a necessary in connection Industrial Property or 4) Each undersigned a confirm by reissue or 5) Each undersigned a other issuing authority as Assignee of the en assigned, and that he	also to deem no grees to ag any a cotain grees to on with similar grees to reexan uthorize ies to is tire inte has not	execute all papers necessary in connection with any interference which may application or patents for the invention and to cooperate with the Assignee in ing 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			

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.

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.

Invent	ior {	FEDER	IC WITH	4 A M			
(Print	name)				المستعد		
Dute	lo	May	2016	Inventor Signature	- M		(SEAL)
Cons	This ul if ou	assignmen tside the U	t should preferal .S.A. If neither,	oly be signed before: (a) , then it should be signed	a Notary P I before at I	ublic if within the U.S east two witnesses wh	S.A. (b) a U.S. so also sign here:
Date	10	May	2016	Witness	5h-	ny	
Noota	[O	Ms	Z016	Wiinsea	Garage	~ JU	

# 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)	Inventor(s)		<u>Witham</u> , Fred; <u>Jones</u> , Steven P; <u>Gregory</u> , Jonathan M; <u>Minchin</u> , Timothy; <u>Clarke</u> , David; <u>Steele</u> , David			
	In consideration of the sum of one dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned, the sufficiency of which are hereby acknowledged, each undersigned agrees to assign, and hereby does assign, transfer and set over t					
(9)	Insert Name of Assig	gnee	ROLLS-ROY	CE plc		
(10)	Insert Address of As	signee	62 Buckingha	m Gate, London, SW1E 6AT, Great Britain		
	for the United States of America as defin provisional, non-provisional, divisional,		ned in 35 U.S.C. §100 , continuation, internal	successors, assigns and legal representatives, the entire right, title and interest, in the invention, and in all applications for patent including any and all tional, confirmation, substitute and reissue application(s), and all Letters at may be granted on the invention known as	st	
(11)	Insert Identification	(11)	Fuel Spray Noz	zle for a Gas Turbine Engine		
	such as Title, Case Number, or Foreign		5874 VT			
	Application Number	(Attor	rney Docket No.	171558	)	
(12)	Alternative	(12)	U.S. Application	n Number		
	Identification for filed applications	filed		June 9, 2016		
	for the invention and as the Assignee may of 2) Each undersigned as be declared concerning every way possible in 3) Each undersigned as necessary in connection Industrial Property or 4) Each undersigned as confirm by reissue or 5) Each undersigned at other issuing authoritias Assignee of the entassigned, and that he agrees that this assign representatives.  6) Each undersigned be	also to a leem negrees to g any a obtaining rees to on with similar grees to reexamuthorize test to is tire interest interest interest interest greeby gray be necessary.	execute separate a execute all paper pplication or pater ing evidence and execute all paper claims or provisic agreements. perform all affirmation a grant of est and requests the sue any and all parest, and covenant executed, and with binding on Assignants the firm of Coessary or desirable	rs necessary in connection with any application and/or patent assignments in connection with such applications and patent rs necessary in connection with any interference which may ents for the invention and to cooperate with the Assignee in going forward with such interference.  It is and documents and perform any act which may be alons of the International Convention for Protection of the International Convention for Protection of a valid United States patent to the Assignee.  It is a valid United States patent to the Assignee at the the has full right to convey the entire interest herein at that he has full right to convey the entire interest herein all not execute, any agreement(s) in conflict herewith, and gnor and Assignor's heirs, successors, assigns and legal coliff plc the power to insert on this assignment any further the in order to comply with the rules of the United States of this document.	nd	

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invent	or					
(Print	name) STEV	IEN P. JO	SHEL	. /		
Date	19 MAY	2016	Inventor Signatur	· Sfr		(SEAL)
Cons	This assignme ul if outside the	ent should preferably be U.S.A. If neither, then	signed before: ( it should be sign	a) a Notary Public if w ned before at least two	vithin the U.S.A. (b) a witnesses who also sig	J.S. n here:
Date	19 May	2016	Witness	A.G. Jones	ANN G T	<u>rane</u> s
Date	19 May	2016	Witness	Ban Jones	BENJAMIN E	<u>Jones</u>

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# ASSIGNMENT

(1-8)	Insert Legal Name(s Inventor(s)	s) of	Witham, Fred; Jones, Steven P; Gregory, Jonathan M; Minchin, Timothy; Clarke, David; Steele, David				
	In consideration of the sum of sufficiency of which are here!	f one dolla by acknow	ar (\$1.00) and other go vledged, each undersig	good and valuable consideration paid to each of the undersigned, the receipt and igned agrees to assign, and hereby does assign, transfer and set over to			
(9)	Insert Name of Assi			ROLLS-ROYCE plc			
(10)	Insert Address of A	ssignee	62 Buckingha	am Gate, London, SW1E 6AT, Great Britain			
	provisional, non-provisional,	ica as uen divisional	med in 35 C.S.C. 9100 . continuation, internal	s, successors, assigns and logal representatives, the entire right, title and interest XI, in the invention, and in all applications for patent including any and all ational, confirmation, substitute and reissue application(s), and all Letters at may be granted on the invention known as			
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(12)	Alternative	(12)	U.S. Application	n Number			
	Identification for			June 9, 2016			
	filed applications	filed	***************************************				
	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 au other issuing authoritie as Assignee of the enti assigned, and that he h agrees that this assigne representatives. 6) Each undersigned he	elso to eleem ne grees to g any ap obtaining ees to on with similar crees to reexaminathorizers to issue internas not element is reby greeby g	execute separate a cessary, execute all paper oplication or pate ng evidence and generated as agreements, perform all affirm ination a grant of s and requests the sue any and all parest, and covenant executed, and will binding on Assignants the firm of Oessary or desirable	rs necessary in connection with any application and/or patent assignments in connection with such applications and patents is necessary in connection with any interference which may ents for the invention and to cooperate with the Assignee in going forward with such interference.  It is and documents and perform any act which may be ions of the International Convention for Protection of mative acts which may be necessary to obtain, maintain or f a valid United States patent to the Assignee.  It is commissioner of the U.S. Patent and Trademark Office and atents resulting from said application(s) to the said Assignee, its that he has full right to convey the entire interest herein II not execute, any agreement(s) in conflict herewith, and gnor and Assignor's heirs, successors, assigns and legal Oliff pic the power to insert on this assignment any further ole in order to comply with the rules of the United States of this document.			

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mven	ur		
(Print	name) Jonathan M Gregory		
Date	2 <sup>68</sup> of June 2016	Inventor Signature	When (SEAL)
Cons	This assignment should preferably be ul if outside the U.S.A. If neither, then	signed before: (a) it should be signed	a Notary Public if within the U.S.A. (b) a U.S. I before at least two witnesses who also sign here:
Date	2 <sup>nd</sup> of June 2016	Witness	Muici
Date	2 <sup>nd</sup> of June 2016	Witness	Am Olym

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# ASSIGNMENT

(1-8)	8) Insert Legal Name(s) of Inventor(s)		Witham, Fred; Jones, Steven P; Gregory, Jonathan M; Minchin, Timothy; Clarke, David; Steele, David		
			r (\$1.00) and other good and valuable consideration paid to each of the undersigned, the receipt of dedged, 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 Assignee		62 Buckingham Gate, London, SW1E 6AT, Great Britain		
	for the United States of Ameri provisional, non-provisional, o	ca as defi livisional,	and Assigned's heirs, successors, assigns and legal representatives, the entire right, title and inte- ned in 35 U.S.C. §100, in the invention, and in all applications for patent including any and all continuation, international, confirmation, substitute and reissue application(s), and all Letters ination certificates that may be granted on the invention known as	rest	
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(12)	Alternative	(12)	U.S. Application Number		
	Identification for		Tuno 0 2016	*********	
	filed applications	filed	June 9, 2016		
	for the invention and as the Assignee may c 2) Each undersigned as be declared concerning every way possible in 3) Each undersigned as necessary in connection of the confirmal property or 4) Each undersigned as confirm by reissue or 5) Each undersigned as other issuing authoriting as Assignee of the entassigned, and that he agrees that this assign representatives. 6) Each undersigned he identification that may be designed to the entassigned he identification that may be designed to the entassigned he identification that may be designed to the entassigned he identification that may be designed to the entassigned he identification that may be designed to the entassigned he identification that may be designed to the entassigned he identification that may be declared to the entassigned he identification that may be declared to the entassigned he identification that may be declared to the entassigned to the entassign	also to of leem negrees to gany a obtaining grees to on with similar grees to reexamulthorize ies to is the interior interior is greeby gay be need to be	execute all papers necessary in connection with any interference which ma pplication or patents for the invention and to cooperate with the Assignee is ng 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	nts  and  cee,	

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invent	or			
(Print	name) TIMOTHY MINCHIN			
Date	4TH MAY 2016	Inventor Signature	(SEAL	.)
Cons			a Notary Public if within the U.S.A. (b) a U.S. I before at least two witnesses who also sign here:	
Date	4-MAY-7016	Witness	1.www	
Nate	4-MAY - 2016	Witness	A/L	

# 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 Legal Name(s) of

representatives.

Witham, Fred; Jones, Steven P; Gregory, Jonathan M; Minchin, Timothy;

(1-0)	Inventor(s)		<u>Clarke</u> , David; <u>Steele</u> , David		
			ar (\$1.00) and other good and valuable consideration paid to each of the undersigned, the receipt are vedged, each undersigned agrees to assign, and hereby does assign, transfer and set over to	ıd	
(9)	<b>Insert Name of Assignee</b>		ROLLS-ROYCE plc		
(10)	0) Insert Address of Assign		62 Buckingham Gate, London, SW1E 6AT, Great Britain		
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(11)	Insert Identification such as Title, Case	(11)	Fuel Spray Nozzle for a Gas Turbine Engine		
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	filed applications	filed	June 9, 2016		
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laven	ter			
(Prini	name) DAVID CLAAKE			
Date	27 MAY 2016	Inventor Signature	D. German	(SEAL)
Cons	This assignment should preferably to all if outside the U.S.A. If neither, the	ne signed before: (a) a n it should be signed	a Notary Public if within the U.S.A. (b) a before at least two witnesses who also s	ı U.S. ign here:
Date	27 MAY 2016	Witness	J. Jan	
Date	27 TH MAY 2016	Witness	SAD	

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

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	In consideration of the sum of one dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned, the receipt at sufficiency of which are hereby acknowledged, each undersigned agrees to assign, and hereby does assign, transfer and set over to				
(9)	Insert Name of Assig	gnee	ROLLS-ROYCE plc		
(10)	0) Insert Address of Assign		62 Buckingham Gate, London, SW1E 6AT, Great Britain		
(hereinafter designated as the Assignee) and Assignee's heirs, successors, assigns and legal representatives, the entire right, for the United States of America as defined in 35 U.S.C. §100, in the invention, and in all applications for patent including provisional, non-provisional, divisional, continuation, international, confirmation, substitute and reissue application(s), and Patent, extensions, reissues and reexamination certificates that may be granted on the invention known as					
(11)	Insert Identification	(11)	Fuel Spray Nozzle for a Gas Turbine Engine		
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(12)	Alternative Identification for	(12)	U.S. Application Number		
	filed applications	filed	June 9, 2016		
	1) Each undersigned agrees to execute all papers necessary in connection with any applications and patents as the Assignee may deem necessary.  2) Each undersigned agrees to execute all papers necessary 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 pic 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.				

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Invente	DANIN STE	EŒ	
Date	10th May 2016	Inventor Signature	And Mu (SEAL)
Consu			a Notary Public if within the U.S.A. (b) a U.S. before at least two witnesses who also sign here:
Date	10th May 2016	Witness	M Southwell
Date	60 TH MAY 2016	Witness	Al geary.