503840734 05/24/2016

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT3887382

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Peter SWANN	05/11/2016
Andrew M ROLT	05/12/2016
Paul FLETCHER	05/10/2016

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:	15163318

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.

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:	171276
NAME OF SUBMITTER:	CARRIE SMITH
SIGNATURE:	/Carrie H. Smith/ for James A. Oliff
DATE SIGNED:	05/24/2016

Total Attachments: 6

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PATENT 503840734 REEL: 038706 FRAME: 0195

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> PATENT REEL: 038706 FRAME: 0196

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

ASSIGNMENT

Swann, Peter

Insert Legal Name(s) of

representatives.

(1-8)	Insert Legal Name(s Inventor(s)) ot	Rolt, Andrew M
	inventor (5)		<u>Fletcher</u> , Paul
			or (\$1.00) and other good and valuable consideration paid to each of the undersigned, the receipt and eledged, each undersigned agrees to assign, and hereby does assign, transfer and set over to
(9)	Insert Name of Assig	gnee	ROLLS-ROYCE plc
(10)	Insert Address of As	signee	62 Buckingham Gate, London, SW1E 6AT, Great Britain
	for the United States of Ameri provisional, non-provisional, o	ca as defi livisional	and Assignee's heirs, successors, assigns and legal representatives, the entire right, title and interest ined 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
(11)	Insert Identification such as Title, Case	(11)	Aircraft Vapour Trail Control System
	Number, or Foreign		5857 NJR
	Application Number	(Attor	rney Docket No)
(12)	Alternative	(12)	U.S. Application Number
	Identification for		
	filed applications	filed	
	for the invention and as the Assignee may (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 as other issuing authority	also to deem no grees to grees to obtain grees to on with similar grees to reexamuthorize ies to is	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

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

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.

PATENT REEL: 038706 FRAME: 0197

(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.

Invento	" PETER SWANN		
(Print			0.
Date	11TH MAY 2016	Inventor Signature	Peter Swan (SEAL)
Consu	*		a Notary Public if within the U.S.A. (b) a U.S. I before at least two witnesses who also sign here:
Date	11TH MAY 2016	Witness	Mill R. H.L.
		·	
Date	11 TH MAY 2016	Witness	

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 Inventor(s)		Swann, Peter
(1-8)			Rolt, Andrew M
			Fletcher, Paul
			ar (\$1.00) and other good and valuable consideration paid to each of the undersigned, the receipt and wledged, each undersigned agrees to assign, and hereby does assign, transfer and set over to
(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 def livisional) and Assignee's heirs, successors, assigns and legal representatives, the entire right, title and interest incd in 35 U.S.C. §100, in the invention, and in all applications for patent including any and all l, continuation, international, confirmation, substitute and essue application(s), and all Letters ination certificates that may be granted on the invention known as
(11)	Insert Identification	(11)	Aircraft Vapour Trail Control System
	such as Title, Case Number, or Foreign		5857NJR
	Application	(Atto	rney Docket No.
	Number	`	Secretary and the secretary an
(12)	Alternative	(12)	U.S. Application Number
	Identification for		
	filed applications	filed	
	for the invention and as the Assignee may of 2) Each undersigned at be declared concerning every way possible in 3) Each undersigned at necessary in connection Industrial Property or 4) Each undersigned at 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 he identification that may	also to deem no grees to g any a obtain grees to on with similar grees to reexamuthorize ies to is tire into has not ment is creby g y be ne	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. The execute all papers and documents and perform any act which may be a claims or provisions of the International Convention for Protection of

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

Invent		AND	REW M		
Date	12	MAY	2016	Inventor Signature	Andrew M Rolt (SEAL)
Const					a Notary Public if within the U.S.A. (b) a U.S. ad before at least two witnesses who also sign here:
Date	12	May	2016	Witness	Dan Mac Man
Date	12	May	2016.	Witness	Gillian Hargeonos.

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 Inventor(s)		Swann, Peter	
(1-8)			Rolt, Andrew M	
			Fletcher, Paul	
	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 and eledged, each undersigned agrees to assign, and hereby does assign, transfer and set over to	
(9)	Insert Name of Assig	gnee	ROLLS-ROYCE plc	
(10)	Insert Address of As	signee	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, title and interest for the United States of America as defined in 35 U.S.C. §100, in the invention, and in all applications for patent including any and all provisional, non-provisional, divisional, continuation, international, confirmation, substitute and reissue application(s), and all Letters Patent, extensions, reissues and reexamination certificates that may be granted on the invention known as			
(11)	Insert Identification	(11)	Aircraft Vapour Trail Control System	
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	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 Industrial Property or 4) Each undersigned as confirm by reissue or 5) Each undersigned as other issuing authority as Assignee of the entassigned, and that he agrees that this assign representatives. 6) Each undersigned hidentification that may be described as the identification that the identification that may be described as the identification	also to deem no grees to ag any a cobtain grees to on with similar grees to reexan uthorizaties to is tire interior has not meent is greey gy be ne	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. The execute all papers and documents and perform any act which may be claims or provisions of the International Convention for Protection of	

PATENT REEL: 038706 FRAME: 0201

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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	or						
(Print	name)	PAUL FLE	TCHER				
Date	10 MAY	2016	Inventor Signature	Paul Flate	Le	. (SEAL)	
Consu		nt should preferably be U.S.A. If neither, then			` '		
Date	10 MA	7 2016	Witness T.E.	PATABALLY	Myself	<u>/</u>	
5	10 Ma.	. 20 16	A R	ANEREMA	627 D		Ql'