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PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3422408

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	

CONVEYING PARTY DATA

Name	Execution Date
PAUL I CHANDLER	05/25/2015
Anthony PIDCOCK	05/21/2015

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:	14789322			

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: 166869 NAME OF SUBMITTER: ANNALYNN H. STEIN SIGNATURE: /Annalynn H. Stein/ for James A. Oliff **DATE SIGNED:** 07/01/2015

Total Attachments: 2

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> **PATENT** REEL: 036000 FRAME: 0397 503375786

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)	Paul I CHANDLER	(2)	Anthony PIDCOCK
(1-8)	Legal Name(s)	(3)		(4)	
	of inventor(s)	(5)		(6)	ANN AND A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		(7)	The residence of the first of t	(8)	
		the un	sideration of the sum of one dolla dersigned, the receipt and sufficie , and hereby does assign, transfer	ency of which are b	good and valuable consideration paid to each of tereby acknowledged, each undersigned agrees to
(9)	Insert Name of Assignce	(9)	ROLLS-ROYCE PLC		
(10)	Insert Address of Assignce	(10)	62 Buckingham Gate, London	, SWIE 6AT, Gre	31 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 such as Title, Case Number, or Foreign Application Number	(11)	A Liner Element for a Combu	5{or	
		(Altor	ney Docket No.		1
(12)	Alternative	(12)	U.S. Application Number		
	Identification for			***************************************	
	filed applications	filed	**************************************		

- 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 patentiability 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).

Date	25th MAY 2015	Inventor Signature	Paul I CHANDLER Caleful	(SEAL)
Date	21st Play 2015	Inventor Signature	Anthony PIDCOCK Control Pile	(SEAL)
Date		Inventor Signature		(SEAL)
Ďate		Inventor Signature		(SEAL)
Date		Inventor Signature		(SEAU)
Date		Inventor Signature		(SEAL)
Date		Inventor Signature		(SEAL)
Date		Inventor Signature		(SEAL)
neithe	This assignment should preferably be signer, then it should be signed before at least two	ed before; (a) a Notary Pu witnesses who also sign b	blic if within the U.S.A. (b) a U.S. Consul if outsi ere:	de the U.S.A. If
Date	2577+MAY2015	Witness	FOR POUL I CHANDLER WINT IN S	
Date	25°-2015	Witness	for Paul I CHANDLER CHASS 1245	nes
Date	210t May 2015	Witness	FOR ANTHONY PIDCOCK ALEX WYNE	10/
Date	2106 Play 2015	Witness	FOR ANTHONY PHOCOCK WYNUM WYN	
Date		Witness		
Date		Witness		***************************************

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RECORDED: 07/01/2015