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Ale	xand	ria, VA 22313-1450	Attorney Docket No. 151093				
Please record the attached document.							
Tot	al nur	mber of pages including cover sheet, attachments, and docume	ent: <u>2</u>				
1.	Α.	Name of conveying party:	2. A. Name and address of receiving party:				
		Kristofer John BOTTOME	ROLLS-ROYCE PLC 65 BUCKINGHAM GATE, LONDON, SW1E 6AT,				
	В.	Additional name(s) of conveying party(ics) attached?	GREAT BRITAIN				
3.	Α.	Nature of conveyance:	B. Additional name(s) & address(es) attached?				
	$\boxtimes$	Assignment	☐Yes ☒ No				
		Security Agreement					
		Other					
	В.	Execution Date: <u>08/17/2011</u>					
4.	A.	Patent Application No. 13/270,523	B. Patent No.(s)				
		Additional numbers attac	hed? ☐ Yes ☒ No				
	C.	Title of Application: ANNULUS FILLER					
5.		me and address of party to whom correspondence	6. Total number of applications and patents involved: 1				
		cerning document should be mailed: ame: James A. Oliff	7. Please charge Deposit Account No. 15-0461 the total fee (37 CFR 3.41) in the amount of \$40.00.				
	A	ddress: OLIFF & BERRIDGE, PLC P.O. Box 320850 Alexandria, VA 22320-4850 Phone Number: 703-836-6400 Fax Number: 703-836-2787	Credit any overpayment or charge any underpayment to deposit account number 15-0461.				
9.	9. Statement and signature.  To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.						
		Es K. Oliff, Registration No. 27,075 chelle K. Windom, Registration No. 65,466	Date: <u>October 11, 2011</u>				

PATENT REEL: 027060 FRAME: 0727

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		(1) KRISTOFER JOHN BOTTOME (5)	_		
(1-8)	Insert	(2)(6)			
	Name(s) of Inventor(s)	(3)(7)			
		(4)(8)	****		
		In consideration of the sum of one dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned, 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) 65 BUCKINGHAM GATE, LONDON, SWIE 6AT, GREAT BRITAIN  (herelnafter 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	(11) ANNULUS FILLER			
	Identification such as Title, Case	4700 NJR	_		
	Number, or Foreign Application Number	(Attomey Docket No. <u>151()93</u>	)		
•		for which the undersigned has (have) executed an application for patent in the United States of America on even date herewith or	1		
(12)	Insert Date of Signing of Application	(12) on <u>08/17/2011</u>	_		
(13)	Alternative Identification for filed applications	(13) U.S. application Serial Number 13/270,523			
		filed 10/11/11			
	applications for the invention tions and patents as the Assi	es to execute all papers necessary in connection with any application and any continuing, divisional or n, and any patent(s) issuing thereon, and also to execute separate assignments in connection with such			

Each undersigned agrees to exceute all papers necessary in connection with any interference which may be declared concerning any application or continuation or division thereof, or any patent or reissue application based thereon, for the invention, and to cooperate with

any application of confination of continuous and patient of 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 Assignce.

5) Each undersigned authorizes and requests the Commissioner of the U.S. Patent and Trademark Office to issue any and all Letters Prients of the United States 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 agreements in conflict herewith. and agrees that this assignment is binding on him and his heirs, successors, assigns and legal representatives.

6) Each undersigned hereby grants the firm of OLIFF & BERRIDGE, 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.

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

Date	AUGUST 17 2011	Inventor Signature	KRISTOFER JOHN BOTTOME	(\$EAL)
Date		Inventor Signature		(SEAL)
Date		Inventor Signature		(SEAL)
Date		Inventor Signature		(SEAL)
Date		Inventor Signature		(SEAL)
Date		Inventor Signature		(SEAL)
Date		Inventor Signature		(SEAL)
Date		Inventor Signature		(SEAL)
ncither, Date Date	This assignment should preferably be sign then it should be signed before at least two	witnesses who also sign h	blic if within the U.S.A. (b) a U.S. Consul if outside (cre:	,

**PATENT** REEL: 027060 FRAME: 0728

RECORDED: 10/11/2011