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Alexa	andria, VA 22313-1450		Attorney Docket No. 142391	
	se record the attached document.	heet, attachments, and docume	nent: <u>3</u>	
1.	A. Name of conveying parties:  1. Simon READ 2. Ewan Fergus THO 3. Christopher Sheute B. Additional name(s) of convey	on BROWN	2. A. Name and address of receiving party:  ROLLS-ROYCE PLC 65 BUCKINGHAM GATE LONDON SW1E 6AT GREAT BRITAIN	
3.	A. Nature of conveyance:		B. Additional name(s) & address(cs) attached? □Yes ☑ No	
4.	A. Palent Application No. 12/		B. Patent No.(s) ached? □ Yes ☒ No	
	C. Title of Application: AN	NULUS FILLER		
5.	Name and address of party to who concerning document should be m	om correspondence nailed:	6. Total number of applications and patents involved: I	
	Name: James A. Qliff		<ol> <li>Please charge Deposit Account No. 15-0461 the total fee (37 CFR 3.41) in the amount of \$\frac{40.00}{2}\$.</li> </ol>	
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9.	Statement and signature. To the best of my knowledge and original document.  James A. Oliff, Registration No. Moshe K. Wilensky, Registration	27,075	ation is true and correct and any attached copy is a true copy of the  Date: <u>August 18, 2009</u>	

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		(1)	SIMON READ	(5)			
(1-8)	Insert	(2)	EWAN FERGUS THOMPSON	(6)			
	Name(s) of Inventor(s)	(3)	CHRISTOPHER SHENTON BRO	.ow <u>n</u> (7)	_		
		(4)		(8)			
		to each over 10	of the undersigned, each undersig	dollar (\$1,00) and other good and valuable consideration pagence agrees to assign, and hereby does assign, transfer and se	id et		
(9)	Insert Name of Assigned	(9)					
(10)	Insert Address of Assignee	(10) 65 BUCKINGHAM GATE, LONDON, 38 June 1997. (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 1 etters 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		4140 Brck				
	Number, or Foreign	/ A 110			_)		
	Application Number	for wi	nich the undersigned has (have) ex-	ecuted an application for patent in the United States of Ame	rica		
(12)	Insert Date of		Tuly 17, 2009;	July 29, 2009; August 1.0, 2009			
, ,	Signing of Application						
(13)	Alternative Identification for filed applications	(13)	U.S. application Serial Number	12/461, 111			
(10)		filed		August 18, 2009			
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## ASSIGNMENT

		(1)	SIMON READ	(5) _		
(1-8)	Insert	(2)	EWAN FERGUS THOMPSON	(6) _		<del>_</del>
(1-11)	Name(s) of Inventor(s)	(3)	CHRISTOPHER SHENTON BR	<u>.own</u> (7) _		
		(4)				
			In consideration of the sum of one rof the undersigned, each undersig	dollar (\$1,00) a	nd other good and valual	ble consideration paid
(9)	Insert Name of	(9)	ROLLS-ROYCE PLC			
(10)	Assignee Insert Address of			anon swii 6.	AT, GREAT BRITAIN	
	Assignee	(hereir the ent inventi	after designated as the Assignce) ar ire right, title and interest for the Ur on, and in all applications for paten pation, international, confirmation, to ons, reissues and reexamination cer	nd Assignce's her nited States of Ar it including any a substitute and re- rtificates that ma	rs, successors, assigns and merica as defined in 35 and all provisional, non-pu- issue application(s), and a y be granted on the invent	revisional, divisional, ill Letters Patent, tion known as
(11)	Insert	(11)	ANNULUS FILLER			
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	Аррисанов учиност	(or wh	ich the undersigned has (have) exe n date herewith or			
(12)	Insert Date of Signing of Application	(12)	un July 17, 2009;	July 29,	2009; August	10, 2009
	• •	(13)	U.S. application Serial Number		12	/461, 111
(13)	Alternative Identification for filed applications	Gled	August 18, 2009			
the Assi elaims of reexaming Patents of full right and agre- identific	lication or continuation or dignee in every way possible in 3). Each undersigned agree or provisions of the Internation 2 frach undersigned agreemation a grant of a valid Unit 5). Each undersigned author of the United States resulting to convey the entire interested that this assignment is bit 6). Each undersigned hereby attom that may be necessary to or of this document.	ivision the nobtaining to executional Converse to perform the converse to the	requests the Commissioner of the dapplication(s) to the said Assign ssigned, and that he has not execution and his heirs, successors, assigned firm of OLIFF & BERRIDGE, Plate in order to comply with the rule	technon based the such interference berform any act of Property or simble necessary to U.S. Patent and see, as Assignee ted, and will not gas and legal region of the United	ereon, for the invention, noe. which may be necessary illar agreements. obtain, maintain or confi Trademark Office to iss of the entire interest, and execute, any agreement oresentatives. insert on this assignment States Patent and Trader	ir connection with irm by reissue or un any and all Letters d covenants that he ha s in conflict herewith,
70000000	In witness whereof, execu-	ted by th	e undersigned on the date(s) opp	osite the under	signed name(s).	
Dute			Inventor Signature	Simon Read		(SEAL)
Date -			Inventor Signature	Ewan Fergus Th	•	(SEAL)
Date	JULY 17 201	DP)	Inventor Signature	Christopher She		(SEAL)
Date			Inventor Signature	<del></del> .		
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**RECORDED: 08/18/2009**