Ass Dire	<del>-</del>	ORM COVER SHEET U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office  Attorney Docket No. 146290						
Please record the attached document.  Total number of pages including cover sheet, attachments, and document: 2								
1.	<ul> <li>A. Name of conveying parties: <ul> <li>(1) Stephen TUPPEN</li> <li>(2) Daniel CLARK</li> </ul> </li> <li>B. Additional name(s) of conveying party(ies) attached? <ul> <li>Yes ⊠ No</li> </ul> </li> </ul>	2. A. Name and address of receiving party:  ROLLS-ROYCE PLC 65 BUCKINGHAM GATE LONDON SW1E 6AT GREAT BRITAIN						
3.	A. Nature of conveyance:  Assignment	B. Additional name(s) & address(es) attached? ☐Yes ☑ No						
4.	A. Patent Application No. 12/844,189	B. Patent No.(s)						
	Additional numbers attached? ☐ Yes ☒ No  C. Title of Application: A METHOD OF JOINING COMPONENTS							
5.	Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: 1						
	Name: <u>James A. Oliff</u>	7. Please charge Deposit Account No. 15-0461 the total fee (37 CFR 3.41) in the amount of \$40,00.						
	Address: 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.	Statement and signature. To the best of my knowledge and belief, the foregoing inform original document.  James A. Oliff, Registration No. 27,075 Matthew C. Barthalow, Registration No. 60,323	nation is true and correct and any attached copy is a true copy of the  Date: July 27, 2010						

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## ASSIGNMENT

		(1)	Stephen TUPPEN	(	5)	
(1-8)	) Insert Nume(s) of Inventor(s)	(2)	Daniel CLARK	((	5)	
		(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 pic			
(10)	Insert Address of Assignee	(10)		n QWIE 6AT (	Grant 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		Method of Joining Compone	nts		
	Identification such as Title, Case Number, or Foreign Application Number					
		(Atton	ney Docket No. 146290			
			-		plication for patent in the United	
			a date herewith or	• 1	,	
(12)	Insert Date of Signing of	(12)	on (1)July 1,2010	); (2) Ju	ıy 2, 2010	
	Application				····	
(13)	Alternative	(13)	U.S. application Serial Number	er <u>12/844</u>	,189	···
	Identification for filed applications	filed	July 27, 2010	_		
1) Each undersigned agrees to execute all papers necessary in connection with any application and any continuing, divisional or reissue applications for the invention, and any patent(s) issuing thereon, 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 continuation or division thereof, or any patent or reissue application based thereon, 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 to issue any and all Letters Patents 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.						
_	dersigned name(s).					
Date	1st Julies 2010	•	Inventor Signature	S Tuppen	5.5.Tupper	(SEAL)
Date	2 N JULY 2010		Inventor Signature	D Clark	D. Uh	(SEAL)
This assignment should preferably be signed before: (a) a Notary Public if within the U.S.A. (b) a U.S. Consul if outside the U.S.A. If neither, then it should be signed before at least two witnesses who also sign here:						
Date	18 July 20	10	Witness for S Tuppen		Juniost Over	
Date	1st July 2	2010	Witness for S Tuppen		the Kin	
Dațe	Zet July	2O(0	Witness for D Clark	P	O O en	
Date -	Zu Jely	2010	Witness for D Clark	1/	1ct Jeff	

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**RECORDED: 07/27/2010**