Mail Stop: Assignment Recordation Services Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450

03-22-2007



103385904

U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

Attorney Docket No. 129719

Please record the attached document.	
Total number of pages including cover sheet, attachments, and docu	ment: <u>5</u>
<ol> <li>A. Name of conveying parties:         <ol> <li>Changmin SON</li> <li>Peter IRELAND</li> <li>Steven THORPE</li> <li>Terence JONES</li> </ol> </li> <li>B. Additional name(s) of conveying party(ies) attached?         <ol> <li>Yes ⋈ No</li> </ol> </li> </ol>	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(es) attached? □Yes ☑ No
Assignment	
B. Execution Date: 1) August 22, 2006, 2) August 20, 2006, 3) November 30, 2006 and 4) September 14, 2006	-
4. A. Patent Application No. <u>11/583,068</u>	B. Patent No.(s)
Additional numbers atta	nched? 🗌 Yes 🖾 No
C. Title of Application: GAS TURBINE ENGINE S	MULATOR
<ol> <li>Name and address of party to whom correspondence concerning document should be mailed:</li> </ol>	6. Total number of applications and patents involved: 1
Name: James A. Oliff	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 19928 Alexandria, VA 22320 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 information original document.	tion is true and correct and any attached copy is a true copy of the
James A. Offif Registration No. 27,075 Stephen P. Catlin Registration No. 36,101	Date: December 19, 2006

		3	ASSI	GNMENT	7	1			
		(I)	Changmin SON						
	Insert	(2)	Peter IRELAND						
	Name(s) of Inventor(s)	(3)	Steven THORPE						
		(4)	Terence JONES						
			In consideration of the	sum of one do	ollar (\$1.00	) and oth	er good an	d valuable	consideration pai
	Insert Name of Assignee	(9)	Rolls-Royce plc						
	Insert Address of Assignee	(10)	65 Buckingham Gat						
		the en invent contin	nafter designated as the tire right, title and inter- tion, and in all applicat- uation, international, c tions, reissues and reex	est for the Unit ons for patent i onfirmation, su	ed States of including a bstitute and	f America ny and all I reissue a	as defined provisiona pplication(	in 35 U.S.6 II, nonprovi s), and all L	C. §100, in the isional, divisional Letters Patent,
	Insert Identification	(11)	Gas Turbine Engine	Simulator					
	such as Title, Case Number, or Foreign		5 4 43 13	29719	<del></del>				
	Application Number	for wh	ney Docket No ich the undersigned hen date herewith or	<del></del>					d States of Ameri
	Insert Date of Signing of Application	(12)							
	Alternative	(13)	U.S. application Scr	ial Number	11/58	3,068			
	Identification for filed applications	filed	Octobe						
	<ol> <li>Each undersigned agree applications for the inventions and patents as the Ass</li> </ol>	on, and an ignee may	y patent(s) issuing the deem necessary.	reon, and also	to execute	separate a	ssignment	s in connec	tion with such
appl Assigns of aminants of right agre-	applications for the inventions and patents as the Ass.  2) Each undersigned agreication or continuation or ignee in every way possible.  3) Each undersigned agrer provisions of the Internat.  4) Each undersigned agrenation a grant of a valid Ur.  5) Each undersigned author the United States resulting to convey the entire interest that this assignment is to.  6) Each undersigned here ation that may be necessarion of this document.	on, and an ignee may be to exec division the in obtaining test to exec to exec to executional Conness to perform the division of the interval	y patent(s) issuing the deem necessary. ute all papers necessary ereof, or any patent or ne evidence and going evidence and doc vention for Protection orm all affirmative act is patent to the Assignit requests the Commiss id application(s) to the assigned, and that he le him and his heirs, suthe firm of OLIFF & Eble in order to comply	reon, and also by in connection reissue applic g forward with uments and per of Industrial Prosecution of the Uesaid Assigned as not execute coessors, assigned with the rules	n with any ation based such interferences ary roperty or senecessary.  S. Patent are, as Assignd, and will as and legar the power of the Uniter the second s	interferent i thereon, erence. ict which similar ag to obtain and Trade nee of the not exect I represent to insert ted States	ssignment ce which in for the inv may be ne reements. , maintain mark Offic entire inte ite, any ag tatives. on this ass Patent an	s in connection, and cessary in confirm the to issue treat, and corections in the confirmation of the conf	tion with such lared concerning d to cooperate with connection with by reissue or any and all Letters ovenants that he had conflict herewith by further
appl Assigns of aminants of right agre-	applications for the inventions and patents as the Ass 2) Each undersigned agretication or continuation or gnee in every way possible 3) Each undersigned agret provisions of the Internat 4) Each undersigned agretion a grant of a valid Ur 5) Each undersigned authof the United States resulting to convey the entire interdes that this assignment is the 6) Each undersigned hereation that may be necessar	on, and an ignee may be to exec division the in obtaining test to exec to exec to executional Conness to perform the division of the interval	y patent(s) issuing the deem necessary. ute all papers necessary ereof, or any patent or ng evidence and going ute all papers and document of Protection or all affirmative acts patent to the Assignarequests the Commissid application(s) to the assigned, and that he him and his heirs, suthe firm of OLIFF & Eable in order to comply the undersigned on the	reon, and also to a connection reissue applic g forward with aments and per of Industrial Possioner of the U e said Assigned as not execute ecessors, assigned execute with the rules with the rules e date(s) oppose	n with any ation based such interferom any a roperty or senecessary.  S. Patent a, as Assign d, and will as and legal the power of the Unitation of the unitation with the unitation of the unitation with the site the unitation based on the unitation with the un	interferent i thereon, erence. let which similar ag to obtain and Trade nee of the not exect i represent to insert ted States	ce which is for the inverse may be ne reements. maintain mark Officentire inte, any agtatives. on this ass Patent and name(s).	s in connecting the second of	tion with such lared concerning d to cooperate with connection with by reissue or any and all Letters ovenants that he had conflict herewith by further the Office for
appl Assigns of amin of amin of amin of agreetific right	applications for the inventions and patents as the Ass.  2) Each undersigned agreication or continuation or ignee in every way possible.  3) Each undersigned agrer provisions of the Internat.  4) Each undersigned agrenation a grant of a valid Ur.  5) Each undersigned author the United States resulting to convey the entire interest that this assignment is to.  6) Each undersigned here ation that may be necessarion of this document.	on, and an ignee may see to exec division the in obtaining the interest of executional Control State and from salest herein sees to perform the state and from salest herein sees therein sees the see	y patent(s) issuing the deem necessary. ute all papers necessary ereof, or any patent or ng evidence and going ute all papers and document of Protection or all affirmative acts patent to the Assignarequests the Commissid application(s) to the assigned, and that he him and his heirs, suthe firm of OLIFF & Eable in order to comply the undersigned on the	reon, and also by in connection reissue applic g forward with uments and per of Industrial Prosecution of the Uesaid Assigned as not execute coessors, assigned with the rules	n with any ation based such interferom any a roperty or senecessary.  S. Patent a, as Assign d, and will as and legal the power of the Unitation of the unitation with the unitation of the unitation with the site the unitation based on the unitation with the un	interferent i thereon, erence. let which similar ag to obtain and Trade nee of the not exect i represent to insert ted States	ce which is for the inverse may be ne reements. maintain mark Officentire inte, any agtatives. on this ass Patent and name(s).	s in connecting the second of	d to cooperate with connection with by reissue or any and all Letters ovenants that he had conflict herewith by further ck Office for
appliassigns of amin	applications for the inventions and patents as the Ass 2) Each undersigned agreication or continuation or ingues in every way possible 3) Each undersigned agreer provisions of the Internat 4) Each undersigned agreer agrant of a valid Ur 5) Each undersigned author the United States resulting to convey the entire interest that this assignment is to 6) Each undersigned hereation that may be necessarion of this document.  In witness whereof, executions and patents are inventionally and patents.	on, and an ignee may be to exec division the in obtains the interest of executional Confess to perform the State for its same from safest herein binding on the grants by or desiral trade by the interest of	y patent(s) issuing the deem necessary.  ute all papers necessar ereof, or any patent or any patent or any evidence and going the all papers and document of Protection or all affirmative act is patent to the Assigned requests the Commiss id application(s) to the assigned, and that he le him and his heirs, such the firm of OLIFF & E ble in order to comply the undersigned on the Inventor S	reon, and also to a connection reissue applic g forward with aments and per of Industrial Possioner of the U e said Assigned as not execute ecessors, assigned execute with the rules with the rules e date(s) oppose	n with any ation based such interferom any a roperty or senecessary.  S. Patent a e, as Assign d, and will is and legar the power of the Unitation Son	interferent i thereon, erence. let which similar ag to obtain and Trade nee of the not exect i represent to insert ted States	ce which is for the inverse may be ne reements. maintain mark Officentire inte, any agtatives. on this ass Patent and name(s).	s in connecting the second of	d to cooperate with connection with by reissue or any and all Letters ovenants that he had conflict herewith by further ck Office for (SEAL)
icati apph Assigns o amii nts o arright agre tific rdat	applications for the inventions and patents as the Ass 2) Each undersigned agreeication or continuation or ignee in every way possible 3) Each undersigned agree provisions of the Internat 4) Each undersigned agreenation a grant of a valid Ur 5) Each undersigned author the United States resulting to convey the entire interces that this assignment is the 6) Each undersigned hereation that may be necessarion of this document.  In witness whereof, executions and patents are inventionally applications.	on, and an ignee may be to exec division the in obtains the interest of executional Confess to perform the State for its same from safest herein binding on the grants by or desiral trade by the interest of	y patent(s) issuing the deem necessary.  ute all papers necessar ereof, or any patent or ng evidence and going ute all papers and document of the patent of the Assignment of	reon, and also to a connection reissue applic g forward with aments and per of Industrial Property of the U conner of the U co	n with any ation based such interferom any a roperty or senecessary.  S. Patent a e, as Assign d, and will is and legared the power of the Uniter the uniteration that uniter the uniter the uniter the uniter the uniteration that uniter the uniteration the uniter th	interferent thereon, it thereon, it thereon, it which similar ag to obtain and Trade nee of the not executed States dersigne	may be ne reements., maintain mark Officentire, any agratives. On this ass Patent and name(s).	s in connecting the control of the confirmation of the confirmatio	ction with such lared concerning d to cooperate with connection with by reissue or any and all Letters ovenants that he had conflict herewith by further ck Office for (SEAL)
appl Assigns of amin onts of amin agre- tific ordat	applications for the inventions and patents as the Ass 2) Each undersigned agree ication or continuation or in genee in every way possible 3) Each undersigned agreer provisions of the Internat 4) Each undersigned agreer agrant of a valid Ur 5) Each undersigned author the United States resulting to convey the entire interest that this assignment is been 6) Each undersigned hereation that may be necessarion of this document.  In witness whereof, execting the provided in the execution of the execu	on, and an ignee may see to exect division the in obtaining the interest of exect the interest of executions of o	y patent(s) issuing the deem necessary.  ute all papers necessar ereof, or any patent or ng evidence and going ute all papers and document of Protection or all affirmative acts patent to the Assigned requests the Commissid application(s) to the him and his heirs, such the firm of OLIFF & Eable in order to comply the undersigned on the Inventor Section 1.	reon, and also by in connection reissue applic g forward with uments and per of Industrial Property of the U control of the U	n with any ation based such interferor any a roperty or senecessary.  S. Patent a e, as Assigned, and will as and legal the power of the Uniterior the unite	interferent thereon, eterence. Let which similar ag to obtain and Trade nee of the not execut represent to insert ted States dersigne	ssignment ce which in for the inv may be ne reements. , maintain mark Officentire inte, any age tatives. on this ass Patent an	s in connecting the control of the confirm the confirmation that confirm the confirmation that confirmation that confirmation the confirmation that confir	ction with such lared concerning of to cooperate with connection with by reissue or any and all Letters over ants that he had conflict herewith the Conflict herewith the Conflict herewith (SEAL)  (SEAL)  (SEAL)
icati appl Assigns o amin nts ( right agre tific rdat  e e	applications for the inventions and patents as the Ass 2) Each undersigned agreication or continuation or gnee in every way possible 3) Each undersigned agrer provisions of the Internat 4) Each undersigned agree nation a grant of a valid Ur 5) Each undersigned authof the United States resulting to convey the entire interest that this assignment is to 6) Each undersigned here ation that may be necessarion of this document.  In witness whereof, execting the provided in the context of	on, and an ignee may be to executive to executional Connects to perform the State corizes and from sacet herein binding on the by grants y or desiral cuted by the state of the corizes and the corizes are correctly and the corizes and the corizes are correctly and the corizes are correctly and the correctly and the correctly and the correctly are correctly and the	y patent(s) issuing the deem necessary.  ute all papers necessar ereof, or any patent or me evidence and going ute all papers and document of the patent of the patent of the patent of the Assignation of the patent of the Assignation of the patent o	reon, and also by in connection reissue applic g forward with uments and per of Industrial Property of the Uctor of the Uc	n with any ation based such interferent any a roperty or senecessary  S. Patent act, as Assigned, and will as and legal the power of the Uniterior the Unite	interferent thereon, it thereon, it thereon, it which similar ag to obtain and Trade nee of the not exect represent to insert ted States dersigne	ssignment ce which is for the investments. maintain mark Officentire interested, any agratives. on this ass Patent and name(s)	s in connecting the control of the control of the confirmation of	ction with such lared concerning d to cooperate with connection with by reissue or any and all Letters over any and all Letters over any that he had conflict herewith by further ck Office for (SEAL)  (SEAL)  (SEAL)  (SEAL)  Outside the U.S.A.
applications of aminutes of the control of the cont	applications for the inventions and patents as the Ass 2) Each undersigned agree ication or continuation or in genee in every way possible 3) Each undersigned agreer provisions of the Internat 4) Each undersigned agreer agrant of a valid Ur 5) Each undersigned author the United States resulting to convey the entire interest that this assignment is been 6) Each undersigned hereation that may be necessarion of this document.  In witness whereof, execting the provided in the execution of the execu	on, and an ingnee may be to exect division the in obtaining the interest of exect division the interest of exect divisional Connects to perform the state divisional Connects and from salest herein object of the interest divisional control of the interest divisi	y patent(s) issuing the deem necessary.  ute all papers necessary are of, or any patent or ong evidence and going ute all papers and document of the patent	reon, and also by in connection reissue applic g forward with uments and per of Industrial Property of the Uctor of the Uc	n with any ation based such interferent any a roperty or senecessary  S. Patent act, as Assigned, and will as and legal the power of the Uniterior the Unite	interferent thereon, it thereon, it thereon, it which similar ag to obtain and Trade nee of the not exect represent to insert ted States dersigne	ssignment ce which is for the investments. maintain mark Officentire interested, any agratives. on this ass Patent and name(s)	s in connecting the control of the control of the confirmation of	ction with such lared concerning d to cooperate with connection with by reissue or any and all Letter ovenants that he had conflict herewith lay further ck Office for (SEAL)  (SEAL)  (SEAL)  (SEAL)  Outside the U.S.A.
appl Assignms of amin agreements (right agreements) are the terminated the transfer of the transfer agreement agreem	pplications for the inventions and patents as the Ass 2) Each undersigned agreication or continuation or gnee in every way possible 3) Each undersigned agrer provisions of the Internat 4) Each undersigned agree nation a grant of a valid Ur 5) Each undersigned authof the United States resulting to convey the entire interest that this assignment is 6) Each undersigned hereation that may be necessarion of this document.  In witness whereof, executive in the convey the entire interest that this assignment is the convey the entire interest that this assignment is the convey the entire interest that this assignment is the convey the entire interest that this assignment is the convey the entire interest that this assignment is the convey the entire interest that this assignment is the convey the entire interest that this assignment is the convey the entire interest that this assignment is the convey the entire interest to be a convey	on, and an ingnee may be to exect division the in obtaining the storest of the control of the storest of the st	y patent(s) issuing the deem necessary. ute all papers necessary ereof, or any patent or ng evidence and going ute all papers and document of the patent of the Assignment of	reon, and also by in connection reissue applic g forward with uments and per of Industrial Property of the Uce said Assigned as not execute accessors, assigned as the rules of the Uce said Assigned as not execute accessors, assigned at the rules of the Uce said Assigned as not execute accessors, assigned at the rules of the Uce said Assigned at the rules of the Uce said Assignature of the Uc	n with any ation based such interferent any a roperty or senecessary  S. Patent act, as Assigned, and will as and legal the power of the Uniterior the Unite	interferent thereon, erence. It which similar ag to obtain and Trade nee of the not exect represent to insert ted States dersigne	ssignment ce which i for the inv may be ne reements. , maintain mark Offii entire inte tte, any ag tatives. on this ass Patent an d name(s)	s in connecting the control of the control of the confirmation of	ction with such lared concerning d to cooperate with connection with by reissue or any and all Letters ovenants that he had conflict herewith lay further ck Office for (SEAL)  (SEAL)  (SEAL)  (SEAL)
appl Assignms of aminests of the control of the con	applications for the inventions and patents as the Ass 2) Each undersigned agree ication or continuation or ignee in every way possible 3) Each undersigned agree reprovisions of the Internat 4) Each undersigned agree reprovisions of the Internat 4) Each undersigned agree reprovisions of the Internat 5) Each undersigned authof the United States resulting to convey the entire interest that this assignment is 6) Each undersigned hereation that may be necessarion of this document.  In witness whereof, executive in the internation of this document.	on, and an ignee may be to executive to executive the in obtaining the stoperform	y patent(s) issuing the deem necessary.  ute all papers necessar ereof, or any patent or me evidence and going ute all papers and document of the patent of	reon, and also by in connection reissue applic g forward with uments and per of Industrial Property of the Ucesaid Assigned as not execute ecessors, assigned as a signature	n with any ation based such interferom any a roperty or senecessary.  S. Patent a e, as Assign d, and will as and legal the power of the Uniterior the Unite	interferent the three on the three of the not execut to insert the dersigne	may be ne reements., maintain mark Officentire interinte, any agtatives. Patent and name(s)	s in connecting the decirential constraint of the constraint of th	ction with such lared concerning d to cooperate with connection with by reissue or any and all Letters ovenants that he had conflict herewith lay further ck Office for (SEAL)  (SEAL)  (SEAL)  (SEAL)

		<b>a</b>	ASSIGNM	ENT )	•			
		(1) <u>(</u>	hangmin SON	(5)				
1-8)	Insert	(2) <u>P</u>	eter IRELAND					
	Name(s) of Inventor(s)	(3) <u>S</u>	teven THORPE	(7)				
		(4) <u>T</u>	erence JONES	(8)				
			consideration of the sum of the undersigned, each und					
(9)	Insert Name of Assignee	(9) <u>B</u>	tolls-Royce plc		·			
(10)	Insert Address of Assignee	(10) _6	5 Buckingham Gate, Londo	on SWIE 6AT, Great Brits	ain			
		the entire invention continuat	er designated as the Assigne right, title and interest for the , and in all applications for point, international, confirmates, reissues and reexamination	e United States of America patent including any and al- tion, substitute and reissue	a as defined in 35 U.S. I provisional, nonprov application(s), and all I	C. §100, in the risional, Letters Patent,		
(11)	Insert Identification	(11)(	Gas Turbine Engine Simula	tor				
	such as Title, Case Number, or Foreign Application Number	(Attorney Docket No. 129719						
			the undersigned has (have late herewith or	executed an application	for patent in the Unite	d States of America		
(12)	Insert Date of Signing of Application	(12) o	n					
(13)	Alternative	(13) U	J.S. application Serial Num	11/583,06	8			
(10)	Identification for filed applications	filed	October 19,					
any app the Ass claims reexam Patents full rigi and agr identifi	olication or continuation or cignee in every way possible  3) Each undersigned agre or provisions of the Internat  4) Each undersigned agre ination a grant of a valid Urited States resulting to convey the entire interest that this assignment is to Each undersigned here cation that may be necessariation of this document.	es to execute division there in obtaining es to execute ional Converses to performited States porizes and reng from said est herein assinding on his by grants they or desirable	all papers necessary in concept, or any patent or reissue evidence and going forward all papers and documents a stion for Protection of Industial affirmative acts which atent to the Assignee. quests the Commissioner of application(s) to the said A igned, and that he has not emand his heirs, successors, firm of OLIFF & BERRIDG in order to comply with the	application based thereond with such interference. Ind perform any act which strial Property or similar a may be necessary to obtain the U.S. Patent and Tradessignee, as Assignee of the xecuted, and will not executed, and legal represence. PLC the power to insert e rules of the United State	in for the invention, and it may be necessary in greements. In, maintain or confirm emark Office to issue the entire interest, and coute, any agreements in thatives.  To this assignment are services and Tradema	od to cooperate with connection with h by reissue or any and all Letters ovenants that he has n conflict herewith,		
	In witness whereof, exec	uted by the	undersigned on the date(s	opposite the undersigno	ed name(s).	am. (*)		
Date			Inventor Signatur	e C Son		(SEAL)		
Date			Inventor Signatur	e P Ireland		(SEAL)		
Date			Inventor Signatui					
Date	13/20156		Inventor Signatus	re T Jones	Total	(SEAL)		
neithe	This assignment should pr., then it should be signed be	referably be efore at least						
Date								
Date				<del></del>				
Date				or S Thorpe	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	AlMatthew, -		
Date	<u> </u>		Witnesses F	or T Jones				

		4	ASSIG	NMENT	<sup>::</sup> لا	•	
		(18) <u>(</u>	hangmin SON		(5)		
1-8)	Insert	(2) <u>P</u> e	eter IRELAND		(6)		
	Name(s) of Inventor(s)	(3) <u>S</u>	teven THORPE	·	(7)		<del></del>
		(4) <u>T</u>	erence JONES		(8)	· · · · · · · · · · · · · · · · · · ·	
						er good and valuable of and hereby does assign	
(9)	Insert Name of Assignee	(9) R	olls-Royce pic				
(10)	Insert Address of Assignee	(10) 6	5 Buckingham Gate, L			in	
		the entire invention, continuati extensions	right, title and interest and in all applications on, international, confi s, reissues and reexami	for the United S for patent inclu- rmation, substitu- nation certificat	tates of Americal ding any and all ute and reissue a	ccessors, assigns and le a as defined in 35 U.S.C provisional, nonprovis pplication(s), and all L ranted on the invention	C. §100, in the sional, divisional, etters Patent,
(11)	Insert Identification	(11)	as Turbine Engine Si	nulator		· <del></del>	
	such as Title, Case Number, or Foreign Application Number	(Attorney	Docket No. 129	719			)
	Application Number	for which				or patent in the United	
(12)	Insert Date of	on even a	ate nerewith of				
(12)	Signing of Application	(12) or	ı			<del></del>	
(13)	Alternative	(13) U	.S. application Serial l	Number 1	1/583,068	<u>.                                    </u>	
(,	Identification for filed applications	filed	· ·	19, 2006			
claims reexam Patents full rig and agri	2) Each undersigned agree plication or continuation or signee in every way possible 3) Each undersigned agree or provisions of the Internat 4) Each undersigned agree or provisions of the Internat 5) Each undersigned aut 5 of the United States resulting to convey the entire interrees that this assignment is 6) Each undersigned here ication that may be necessar ation of this document.	division there in obtaining tes to execute tional Convent mited States proorizes and re ing from said test herein ass binding on hit by grants the ry or desirable	of, or any patent or re- evidence and going fo all papers and docume tion for Protection of all affirmative acts w atent to the Assignee. quests the Commission application(s) to the sa igned, and that he has m and his heirs, succe firm of OLIFF & BER e in order to comply w	issue application rward with suclents and perform Industrial Properties and perform the U.S. aid Assignee, as not executed, a ssors, assigns at RIDGE, PLC the ith the rules of	n based thereon h interference. In any act which erty or similar accessary to obtain Patent and Trade Assignee of the nd will not execute legal represes power to insert the United State	may be necessary in c greements. In, maintain or confirm emark Office to issue a e entire interest, and coute, any agreements in intatives. I on this assignment an s Patent and Trademar	onnection with  by reissue or  any and all Letters  by enants that he has  conflict herewith,
	In witness whereof, exec	cuted by the	undersigned on the d	ate(s) opposite	the undersign	ed name(s).	
Date			Inventor Sign	nature <u>C So</u>	n		(SEAL)
Date			Inventor Sig	nature Pire	land	110	(SEAL)
Date	30/11/06		Inventor Sig	nature S Th	orpe	f 1. Thyru	(SEAL)
Date			Inventor Sig	nature T Jo	nes		(SEAL)
Date	This assignment should er, then it should be signed	preferably be	signed before: (a) a N two witnesses who al	otary Public if so sign here:	within the U.S.A	A. (b) a U.S. Consul if	outside the U.S.A. It
			Witnesses	For C Son			
Date			Witnesses	For P Irelan		21	HI
Date	30 111 06		Witnesses	For S Thorn	ne 5.5. A	eyla	Macre
Date			Witnesses	For T Jones	-0		
Date	·						

		)	ASSIGNM	IENT	. )	
			ngmin SON	(5	)	
1-8)	Insert	(2) <u>Pete</u>	er IRELAND	(6	)	<del></del>
	Name(s) of Inventor(s)					
				(8		
					0) and other good and	valuable consideration paid does assign, transfer and set
9)	Insert Name of Assignee	(9) Rol	lls-Royce plc			
10)	Insert Address of Assignee					
		the entire rig invention, a continuation extensions,	ght, title and interest for to nd in all applications for n, international, confirmations reissues and reexamination	he United States of patent including tion, substitute aron certificates that	of America as defined in any and all provisional and reissue application(s)	
[11)	Insert Identification	(11) <u>Ga</u>	s Turbine Engine Simula	itor		
	such as Title, Case Number, or Foreign Application Number	(Attorney [	Docket No. 129	719		)
		for which th				the United States of America
(12)	Insert Date of Signing of Application	(12) on				
13)	Alternative	(13) U.S	. application Serial Num	11/58	33,068	
	Identification for filed applications	filed	October 19	9, 2006		
the Assi claims of reexami Patents full right and agre-	gnee in every way possible 3) Each undersigned agree provisions of the Internat 4) Each undersigned agree nation a grant of a valid Ur 5) Each undersigned authors the United States resulting	division thereofinobtaining ever to execute allicional Conventiones to perform allicited States pate to rizes and required from said appear therein assignment on him allows around the first part of the first pa	idence and going forward papers and documents on for Protection of Indu. Il affirmative acts which eat to the Assignee.  ests the Commissioner of plication(s) to the said A need, and that he has not cand his heirs, successors and Other & Berring of Other & Berring.	e application based with such inter- and perform any strial Property or may be necessar of the U.S. Patent assignee, as Assignee, and leid, assigns and leg.	ed thereon, for the inverterence.  act which may be necessimilar agreements.  y to obtain, maintain of and Trademark Office gnee of the entire interest all representatives.  It to insert on this assistance of the assistance of the second and the second and the second all representatives.	ention, and to cooperate with essary in connection with or confirm by reissue or to issue any and all Letters est, and covenants that he has beements in conflict herewith,
	In witness whereof, exec	uted by the un	dersigned on the date(s	i) opposite the u	ndersigned name(s).	
Date			Inventor Signatu	re C Son		· (SEAL)
Date `	<u> </u>	e ç i	Inventor Signatu	re P Ireland	to be the metal	(SEAL)
Date			Inventor Signatu	re S Thorpe		(SEAL)
Date						
	This assignment should p then it should be signed b	rafarahlu he sig	gned before: (a) a Notary to witnesses who also sig	Public if within an here:	the U.S.A. (b) a U.S.	Consul if outside the U.S.A. 1
Date			WitnessesFo	or C Son		- 229 N-
Date				or P Ireland		
Date			Witnesses _F			·
Date			Witnesses F	or T Jones		
Date						

RECORDED: 03/19/2007