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U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

07-09-2009



		ttorney Docket No. <u>141531</u>							
	10356664 Please record the attached original document or copy thereof.								
1.	A. Name of conveying parties:	2. A. Name and address of receiving party:							
	[1] Brian C Y CHEONG [2] Stephen C DIAMOND	ROLLS-ROYCE PLC 65 BUCKINGHAM GATE LONDON SW1E 6AT, GREAT BRITAIN							
	B. Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No								
3.	A. Nature of conveyance:	B. Additional name(s) & address(es) attached?							
	☐ Merger	∐Yes ⊠ No							
	☐ Security Agreement ☐ Change of Name								
	Other								
	B. Execution Date: [1] March 24, 2009; [2] April 6, 2009								
4.	☐ This document is being filed together with a new applica	ation.							
	A. Patent Application No.(s)	B. Patent No.(s)							
	Additional numbers atta	ched? 🗌 Yes 🖾 No							
	C. Title of Application: <u>A BLADE FOR A ROTOR</u>								
5.	Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: 1							
	Name: James A. Oliff	7. A. Total fee (37 CFR 3.41)\$ 40.00							
		B. Enclosed (Check No. <u>219703</u>)							
	Address: OLIFF & BERRIDGE, PLC P.O. Box 320850 Alexandria, VA 22320-4850	8. 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 informathe original document.	ation is true and 67/98/2989 d NANA the BRAGGOR9 2 18458448 of 01 FC:8021							
(James A. Oliff, Registration No. 27,075 Rodney H. Rothwell, Jr., Registration No. 60,728	40.80 0 Date: July 1, 2009							
	Total number of pages including cover sheet, attachments, and document: 3								

PATENT REEL: 022935 FRAME: 0750

ASSIGNMENT

		(1)	Brian C Y CPEUNG	(3)			
(1-8)	Insert	(2)	Stephen C Diamond	(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 Insert Address of Assignee	(9)	Rolls-Royce plc				
(10)		(10)	65 Buckingham Gate, London	on SWIE 6AT, Great Britain			
		the en invent contin	ire right, title and interest for the ion, and in all applications for putation, international, confirmat	e) and Assignee's heirs, successors, assigns and legal representatives, as United States of America as defined in 35 U.S.C. §100, in the patent including any and all provisional, non-provisional, divisional, ion, substitute and reissue application(s), and all Letters Patent, in certificates that may be granted on the invention known as			
(11)	Insert Identification	(11)	A Blade for a Rotor				
	such as Title, Case						
	Number, or Foreign Application Number	(Attor	ney Docket No. <u>14153</u>				
			for which the undersigned has (have) executed an application for patent in the United States of America on even date herewith or				
(12)	Insert Date of Signing of Application	(12)	on [1] March 24	, 2009 [2] June 15, 2009			
(13)	Alternative	(13)	U.S. application Serial Numb	per			
	Identification for filed applications	filed	July 1, 2009				
applica any app the Ass claims reexam Patents full righ and agr identifi	applications for the invention tions and patents as the Assig 2) Each undersigned agrees plication or continuation or disignee in every way possible ir 3) Each undersigned agrees or provisions of the Internatio 4) Each undersigned agrees ination a grant of a valid Unit 5) Each undersigned author of the United States resulting that to convey the entire interest rees that this assignment is bin 6) Each undersigned hereby	, and any nee may to exect vision the obtaini to exect nal Conv to perfored ed States izes and from sa herein a ding on	r patent(s) issuing thereon, and deem necessary. Ite all papers necessary in contereof, or any patent or reissue and evidence and going forward the all papers and documents a sention for Protection of Industrial affirmative acts which in patent to the Assignee. Trequests the Commissioner of application(s) to the said Assigned, and that he has not exhim and his heirs, successors, the firm of OLIFF & BERRIDGI	nection with any application and any continuing, divisional or all also to execute separate assignments in connection with such nection with any interference which may be declared concerning application based thereon, for the invention, and to cooperate with a with such interference. Independent of the invention of the invention with such interference. Independent of the invention of the connection with strial Property or similar agreements. In any be necessary to obtain, maintain or confirm by reissue or the U.S. Patent and Trademark Office to issue any and all Letters signee, as Assignee of the entire interest, and covenants that he has secuted, and will not execute, any agreements in conflict herewith, assigns and legal representatives. E. PLC the power to insert on this assignment any further strules of the United States Patent and Trademark Office for			
	In witness whereof, execut	ed by th	e undersigned on the date(s)	opposite the undersigned name(s).			
Date	> 24 March	2000	Inventor Signature	B C Y Cheong (SEAL)			
Date			Inventor Signature	S C Diamond (SEAL)			
neither,	This assignment should pref then it should be signed before			ublic if within the U.S.A. (b) a U.S. Consul if outside the U.S.A. If here:			
Date `	24 March 200	9	Witness	For B C Y Cheong S Bather			
Date -	24 March 20	709	Witness	For B C Y Cheong M. Makely			
Date			Witness	For S C Diamond			
Date			Witness	For S C Diamond			

PATENT REEL: 022935 FRAME: 0751

ASSIGNMENT

		(1)	Brian C Y CHEONG		(5)	
(1-8)	Insert Name(s) of Inventor(s)	(2)	Stephen C Diamond		(6)	
		(3)		n-	(7)	
		(4)			(8)	
		to eac	h of the undersigned, eac	um of one dollar (\$ h undersigned agre	1.00) and other good and valuables to assign, and hereby does assi	e consideration paid gn, transfer and set
(9)	Insert Name of Assignee	(9)	Rolls-Royce plc			
(10)	Insert Address of Assignee	(10)	65 Buckingham Gate,	London SW1E 6A7	, Great 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	(11)	A Blade for a Rotor			
	such as Title, Case					
	Number, or Foreign Application Number	(Atto	rney Docket No1	41531)
		for w			application for patent in the Unit	ed States of America
(12)	Insert Date of Signing of Application			24, 2009 [2] June 15, 2009	
(13)	Alternative	(13)	U.S. application Serial	Number		
(==)	Identification for filed applications	filed	T 1 1 200			
any application any application and agriculture agricu	tions and patents as the Assig 2) Each undersigned agrees dication or continuation or di ignee in every way possible if 3) Each undersigned agrees or provisions of the Internatio 4) Each undersigned agrees ination a grant of a valid Unit 5) Each undersigned autho of the United States resulting it to convey the entire interes ees that this assignment is bit 6) Each undersigned hereb	mee may s to exect vision the n obtain s to exect onal Con s to perfeted State of from sa t therein nding or y grants	deem necessary. ute all papers necessary in nereof, or any patent or re ing evidence and going fo ute all papers and docum vention for Protection of orm all affirmative acts w as patent to the Assignee. If requests the Commissio aid application(s) to the sa assigned, and that he has a him and his heirs, succe- the firm of OLIFF & BER	n connection with a issue application burward with such in ents and perform as Industrial Property hich may be necessarid Assignee, as As not executed, and ssors, assigns and I RIDGE, PLC the po	ny act which may be necessary in or similar agreements. ary to obtain, maintain or confirment and Trademark Office to issue signee of the entire interest, and will not execute, any agreements.	clared concerning and to cooperate with connection with m by reissue or any and all Letters covenants that he has in conflict herewith,
	In witness whereof, execu-	ted by t			a service and	(55.4.5.)
Date	>/th Acc OS	3		nature BCYC	Ver - Ver	(SEAL)
Date	E AGI	7		nature <u>SCDian</u>		(SEAL)
neither,	This assignment should pre then it should be signed before	ferably lore at lea	pe signed before: (a) a No list two witnesses who also	tary Public if withi o sign here:	n the U.S.A. (b) a U.S. Consul if	outside the U.S.A. If
Date			Wi	tness For B C Y	Cheong	
Date			Wi	tness For B C Y	Cheong	
Date	Z10.		Wi	tness For S C D	amond Melali	6-01-02
Date -	GM APT 03		Wi	tness For S C D	amond Silia Car	navelli

(1.8) Invert (2.2) Stephen C Diamond (6.) Name(s) of Inventor(s) (3.) (4.) In consideration of the sum of one dellar (\$1.00) and other good and valuable consideration partoceach of the undersigned, each undersigned agrees to assign, and hereby does assign, transfer and stover to ceach of the undersigned, each undersigned agrees to assign, and hereby does assign, transfer and stover to ceach of the undersigned agrees to assign, and hereby does assign, transfer and stover to the undersigned agrees to assign, and hereby does assign, transfer and stover to design the design of the undersigned agrees to assign, and hereby does assign, transfer and stover to design the undersigned agrees to assign, and hereby does assign, transfer and stover to design the undersigned agree to assign agree to assign, and hereby does assign, transfer and stover to design the undersigned agree to assign and legal representative the entire right, title and interest for the United States of America as defined in \$5 U.S. C \$100, in the invention, and in all applications for particular the undersigned and in all applications for particular the undersigned agree to exceed a large to the undersigned agree to exceed an application for patent in the United States of America and the application and application for patent in the United States of America and Experimental Complex (Attorney Docket No. 141531 for which the undersigned has therewith or reverse applications for the invention, and any patent(s) issuing the transfer and the undersigned agrees to exceed all papers necessary in connection with any application and any eventioning, divisional or revisive application and parts at the Assignee may deem excessary. (1.2) In the undersigned agrees to exceed all papers necessary in connection with any application and any eventioning, divisional or revisive application and any eventioning, divisional or revisive application and parts at the Assignee may deem excessary. (2.1) Excent undersigned degrees to exceed all papers necessary in c				ASSIGNMENT			
(1-8) Name(s) of Inventor(s) (3) In consideration of the aum of one dollar (\$1,00) and other good and valuable consideration pot o each of the undersigned, each undersigned agrees to assign, and hereby does assign, transfer and so over 10 (9) Invent Name of Assignee (10) Invent Address of (10) Stuckingham Cate, London SWIE 6AT, Great Initian (10) Assignee (10) Invent Address of (10) Stuckingham Cate, London SWIE 6AT, Great Initian (11) Chemistry of Assignee (12) Stuckingham Cate, London SWIE 6AT, Great Initian (13) Assignee as the centre right, lifte and insteast for the United States of America as defined in \$3 U. S.C. §100, in the invention, and in all applications for patent indusing any and all provisional, divisional continuation, international, confirmation, substitute and reissue application(s), and all Letters Patent, extensions, resisues and research and provisional, and provisional, divisional or such as Title, Case Number, or Foreign Application Number (Attorney Ducket No. 141531 For which the undersigned has (have) executed an application for patent in the United States of American on even date herewith or (12) Insert Date of Signing of (12) on [1] March 24, 2009 [2] June 15, 2009 (Attorney Ducket No. 141531 For which the undersigned has (have) executed an application for patent in the United States of American on even date herewith or (13) Alternative Indication for filed applications for the invention, and any patent(s) issuing thereon, and also to execute separate assignments in connection with such 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 any deem necessary. (13) Lest undersigned agrees to execute all papers an accessary in connection with any interference which may be declared concerning any application or continuation or division thereof, or any patent or rissue application based thereon, of the invention, and any patent(s) issuing thereon, and also to			(1)	Brian C Y CHEONG (5)			
of Inventor(s) (4) (5) In consideration of the sum of one dollar (\$1.00) and other good and valuable consideration pato seach of the undersigned, each undersigned agrees to assign, and hereby does assign, transfer and so over to over to over to a seach of the undersigned, each undersigned agrees to assign, and hereby does assign, transfer and so over to a season of the undersigned agrees to assign, and hereby does assign, transfer and so over to a season of the undersigned agrees to assign, and hereby does assign, transfer and so over to a season of the undersigned agrees to assign, and hereby does assign, transfer and so over to assign the undersigned agrees to assign, and hereby does assign, transfer and so over to assign the undersigned agrees to assign and legal representative the entire right, title and interest for the United States of America as defined in 33 U.S. 2, 100, in the the continuation, international, confirmation, asbititute and reissue applications of an undersigned continuation, international, confirmation, asbititute and reissue application of a price of the undersigned has that one of the undersigned has that of the undersigned processed of the undersigned processed of the undersigned processed of the 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 assignment and patents as the Assignment as a season and the season of the undersigned agrees to execute all papers necessary in connection with any interference which may be necessary in connection with as any interference which may be necessary in connection with any interference which may be necessary in connection with any interference which may be necessary in connection with any interference which may be necessary in connection with	(1-8)	Insert	(2)				
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Insert Name of Assignee (9)			(4)				
Assignee (9) Rolls-Royce plc (10) 5 Buckingham Clate, London SWIE 6AT, Great Britain (bertinafter designated as the Assignee') and Assignee's heirs, successors, assigns and legal representative the entire right, little and interest for the United States of America as defined in 35 U.S. § 100, in the invention, and in all applications for patent including any and all provisional, non-provisional, divisional continuation, international, confirmation, substitute and reissue applications(), and all Letters Patent, extensions, reissues and reexamination certificates that may be granted on the invention known as including application for patent in the United States of American acceptance on even data herewith or one who data herewith or one was data herewith or one was data herewith or filed applications (13) Alternative Identification filed July 1, 2009 (13) Alternative Identification filed July 1, 2009 (14) Insert Date of Signing of Applications (15) U.S. application Serial Number Identification for filed applications and papers and	(0)		to each	In consideration of the sum of one dollar (\$1.00) and other good and valuable consideration paid to f the undersigned, each undersigned agrees to assign, and hereby does assign, transfer and set			
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the entire right, title and interest for the United States of America and efficient in \$S U.S.C. \$100, in the invention, and in all applications for patient 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 \$100. \$1	(10)		(10)	65 Buckingham Gate, London SW1E 6AT, Great Britain			
Identification such as Title, Case Number, or Foreign Application Number (Attorney Docket No. 141531 for which the undersigned has (have) executed an application for patent in the United States of American on even date herewith or (12) Insert Date of Signing of (12) on [1] March 24, 2009 [2] June 15, 2009 (13) Alternative (13) U.S. application Serial Number Identification for filed applications for filed applications for filed applications of filed filed papplications 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 exasting en every way possible in obtaining evidence and going forward with such interference. (3) 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 exasting necessary 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 execute all papers and documents and perform any act which may be necessary or obtain, maintain or confirm by reissue or recxamination a grant of a valid United States patent to the Assignce. (5) Each undersigned agrees to execute all papers and documents and perform any act which may be necessary or obtain, maintain or confirm by reissue or recxamination a gra			the ent invent contin	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,			
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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 Letter Patents of the United States resulting from said application(s) to the said Assignee, as Assignee of the entire interest, and covenants that he full right to convey the entire interest herein assigned, and that he has not executed, and will not execute, any agreements in conflict herewit 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 & BERRIHOES, PLC theough and the paper 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). This assignment should preferably be signed before: (a) a Notary Public if within the U.S.A. (b) a	(13)		(13)	U.S. application Serial Number			
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Date 14 March 2009 Inventor Signature BCY Cheong (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. neither, then it should be signed before at least two witnesses who also sign here: Date 24 March 2009 Witness For BCY Cheong SBather Date 24 March 2009 Witness For BCY Cheong M. Michely Date Witness For SC Diamond	applicate any app the Ass claims of reexaming Patents full right and agridentifications.	applications for the invention tions and patents as the Assig 2) Each undersigned agree: olication or continuation or di ignee in every way possible i 3) Each undersigned agree: or provisions of the Internatic 4) Each undersigned agree: ination a grant of a valid Uni 5) Each undersigned autho of the United States resulting at to convey the entire interest ees that this assignment is bin 6) Each undersigned hereb cation that may be necessary tion of this document.	n, and any mee may sto exect vision the nobtaini sto exect onal Converted States rizes and g from sat therein a not grants or desira	y patent(s) issuing thereon, and also to execute separate assignments in connection with such deem necessary. It all papers necessary in connection with any interference which may be declared concerning ereof, or any patent or reissue application based thereon, for the invention, and to cooperate with me evidence and going forward with such interference. It all papers and documents and perform any act which may be necessary in connection with vention for Protection of Industrial Property or similar agreements. It all affirmative acts which may be necessary to obtain, maintain or confirm by reissue or a patent to the Assignee. It requests the Commissioner of the U.S. Patent and Trademark Office to issue any and all Letters and application(s) to the said Assignee, as Assignee of the entire interest, and covenants that he has assigned, and that he has not executed, and will not execute, any agreements in conflict herewith, him and his heirs, successors, assigns and legal representatives. The firm of OLIFF & BERRIDGE, PLC the power to insert on this assignment any further belie in order to comply with the rules of the United States Patent and Trademark Office for			
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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. neither, then it should be signed before at least two witnesses who also sign here: Date 24 March 2009 Witness For B C Y Cheong Sather Date Vitness For B C Y Cheong Witness For B C Y Cheong M. Malehyl Witness For S C Diamond	Date	* 14 March	2000				
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	Date			Witness For S C Diamond			

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ASSIGNMENT

		(1)	Brian C Y CHEONG	(5)	· · · · · · · · · · · · · · · · · · ·			
(1-8)	Insert Name(s) of Inventor(s)	(2)	Stephen C Diamond	(6)				
		(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)						
		(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	(11)	A Blade for a Rotor			*****		
	such as Title, Case							
	Number, or Foreign Application Number	(Attorney Docket No. 141531)						
			for which the undersigned has (have) executed an application for patent in the United States of America					
(12)	Insert Date of Signing of		on [1] March 24,	2009 [2] June	15, 2009			
	Application							
(13)	Alternative Identification for	(13)	U.S. application Serial Number	er				
	filed applications	filed	July 1, 2009					
applica any app the Ass claims reexam Patents full rigl and agr identifi	applications for the invention tions and patents as the Assig 2) Each undersigned agrees plication or continuation or disignee in every way possible in 3) Each undersigned agrees or provisions of the Internation 4) Each undersigned agrees ination a grant of a valid Unit 5) Each undersigned author of the United States resulting to convey the entire interest tees that this assignment is bir 6) Each undersigned hereby	n, and any mee may so to execution the control of t	ute all papers necessary in connected, or any patent or reissue and going forward ute all papers and documents and vention for Protection of Industrorm all affirmative acts which m	also to execute separate a section with any interferent pplication based thereon, with such interference. It is a perform any act which it is all Property or similar against be necessary to obtain the U.S. Patent and Trade ignee, as Assignee of the secuted, and will not execute ssigns and legal represent the PLC the power to insert of	ssignments in connection ce which may be declared for the invention, and to come the end of the invention, and to come the end of the invention, and to come the end of the end	concerning cooperate with ection with eissue or and all Letters ants that he has flict herewith,		
	In witness whereof, execut	ed by th	e undersigned on the date(s) o	pposite the undersigned	name(s).			
Date			Inventor Signature			(SEAL)		
Date	- 61h Apr Oc	} _	Inventor Signature	S C Diamond		(SEAL)		
neither,		•	e signed before: (a) a Notary Pu st two witnesses who also sign h		b) a U.S. Consul if outside	e the U.S.A. If		
Date			Witness	For B C Y Cheong				
Date			Witness	For B C Y Cheong				
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RECORDED: 07/01/2009