BOX ASSIGNMENTS	00 4	7 0007	U.S. PTO 11/890520		SE FOR TRADEMAR
		7-2007	08/07/2007		
RECORDATION FO				: 	
TO THE HONORABLE	- 100-	437691	ADEMARKS:		
SIR: PLEASE RECORE			MENTS OR COPY THE	REOF.	<u></u>
1. NAME OF CONVEY		ASSIGNOR(S)):	14		
1. RAZZELL, Anthony G 2. WEBSTER, John Ric 3. JEWELL, Geraint Wy	iordon hard 'n		4. 5. 6.		
ADDITIONAL NAME(S)) ·
2. PARTY(IES) (ASSIG		NG INTEREST:			
NAME: Rolls-Royce plc 65 Buckinghan London SW1E	n Gate			uls	<i>F</i> 90520
England ADDITIONAL NAME(S)	& ADDRESS(ES)	ATTACHED?	YES]ио
3. NATURE OF CONVI (Submit herewith only	EYANCE (DOCUMI	ENT): recordation mult	iple copies of same Ass	ignment signed	by different inventor
is <u>one</u> document)				ATE: 6/18/07 8	6/20/07
CHANGE OF				ATE: ONOUT O	k 0/29/07
SECURITY		OTHER:			
4. EXECUTION DATE(S) ON THE DECLA	ARATION IF FILED	HEREWITH: (NOTE: I	F DATES 1 JI	FFER
<u>SEE ATTY</u> !):	·				
4.5 APPL. NO.(S) OR F	PAT NO.(S). OTHE	ERS ON ADDITION	NAL SHEET(S) attached	? YES	X NO
4.5 APPL. NO.(S) OR F A. PAT. APP. NO.(S) series code/serial no	PAT NO.(S). OTHE	ERS ON ADDITION	AL SHEET(S) attached	? YES	X NO 1ST INVENTOR if not in item 1
A. PAT. APP. NO.(S)	· · ·	1ST INVENTOR	····		
A. PAT. APP. NO.(S) series code/serial no	M# 85032 Party to Whom Cor	1ST INVENTOR if not in item 1	B. PATENT NO(S)	/ M# 	
A. PAT. APP. NO.(S)	M# 85032 Party to Whom Cor	1ST INVENTOR if not in item 1	B. PATENT NO(S) 6. NUMBER INVOLVE	M# ED:	
A. PAT. APP. NO.(S) series code/serial no 5. Name & Address of I Concerning Documer	M# 85032 Party to Whom Corn th Should be Mailed	1ST INVENTOR if not in item 1	B. PATENT NO(S)	M# ED: :_ = TOTAL <u>1</u>	1ST INVENTOR If not in item 1
A. PAT. APP. NO.(S) series code/serial no 5. Name & Address of I Concerning Documer Manelli, Denison & Selte SEVENTH FLR. 2000 M STREET N.W.	M# 85032 Party to Whom Corn th Should be Mailed er PLLC	1ST INVENTOR if not in item 1	 B. PATENT NO(S) 6. NUMBER INVOLVE APPLNS <u>1</u> + PATS 	M# ED: 5: = TOTAL <u>1</u> ENCLOSED: (C	1ST INVENTOR If not in item 1
A. PAT. APP. NO.(S) series code/serial no 5. Name & Address of I Concerning Documer Manelli, Denison & Selte SEVENTH FLR.	M# 85032 Party to Whom Corn th Should be Mailed er PLLC	1ST INVENTOR if not in item 1	B. PATENT NO(S) 6. NUMBER INVOLVE APPLNS <u>1</u> + PATS 7. AMOUNT OF FEE	M# ED: 5: = TOTAL <u>1</u> ENCLOSED: (C	1ST INVENTOR If not in item 1
A. PAT. APP. NO.(S) series code/serial no 5. Name & Address of I Concerning Documer Manelli, Denison & Selte SEVENTH FLR. 2000 M STREET N.W. WASHINGTON, D.C. 20	M# 85032 Party to Whom Corn th Should be Mailed er PLLC	1ST INVENTOR if not in item 1	B. PATENT NO(S) 6. NUMBER INVOLVE APPLNS <u>1</u> + PATS 7. AMOUNT OF FEE	M# ED: 5: = TOTAL <u>1</u> ENCLOSED: (C 40 = \$ 40	1ST INVENTOR if not in item 1 ode 581)
A. PAT. APP. NO.(S) series code/serial no 5. Name & Address of I Concerning Documer Manelli, Denison & Selte SEVENTH FLR. 2000 M STREET N.W. WASHINGTON, D.C. 20 Att: Warren Taltavull	M# 85032 Party to Whom Corn th Should be Mailed er PLLC	1ST INVENTOR if not in item 1	 B. PATENT NO(S) 6. NUMBER INVOLVE APPLNS <u>1</u> + PATS 7. AMOUNT OF FEE ABOVE TOTAL X \$ 8. IF ABOVE FEE IS I CHARGE INSUFFICIE 	M# ED: 5: = TOTAL <u>1</u> ENCLOSED: (C 40 = \$ 40	1ST INVENTOR If not in item 1 ode 581)
A. PAT. APP. NO.(S) series code/serial no 5. Name & Address of I Concerning Documer Manelli, Denison & Selte SEVENTH FLR. 2000 M STREET N.W. WASHINGTON, D.C. 20 Att: Warren Taltavull 5.5 ATTY DKT 85032 MATTER NO.	M# 85032 Party to Whom Cornt Should be Mailed er PLLC 20036	IST INVENTOR if not in item 1 respondence : wwt IENT REF.	B. PATENT NO(S) 6. NUMBER INVOLVE APPLNS <u>1</u> + PATS 7. AMOUNT OF FEE ABOVE TOTAL X \$ 8. IF ABOVE FEE IS I CHARGE INSUFFICIE NUMBER: 50-0687 UNDER ORDER NO dup. sheet not required	M# ED: 5: = TOTAL <u>1</u> ENCLOSED: (C 40 = \$ 40 MISSING OR IN NCY TO DEPO	ADEQUATE SIT ACCOUNT 85032 MATTER NO.
A. PAT. APP. NO.(S) series code/serial no 5. Name & Address of I Concerning Documer Manelli, Denison & Selte SEVENTH FLR. 2000 M STREET N.W. WASHINGTON, D.C. 20 Att: Warren Taltavull 5.5 ATTY DKT 85032 MATTER NO.	M# 85032 Party to Whom Cornt Should be Mailed er PLLC 20036	IST INVENTOR if not in item 1 respondence : wwt IENT REF.	B. PATENT NO(S) 6. NUMBER INVOLVE APPLNS <u>1</u> + PATS 7. AMOUNT OF FEE ABOVE TOTAL X \$ 8. IF ABOVE FEE IS I CHARGE INSUFFICIE NUMBER: 50-0687 UNDER ORDER NO dup. sheet not required	M# ED: 5: = TOTAL <u>1</u> ENCLOSED: (C 40 = \$ 40 MISSING OR IN NCY TO DEPO	ADEQUATE SIT ACCOUNT 85032 MATTER NO.
A. PAT. APP. NO.(S) series code/serial no 5. Name & Address of I Concerning Documer Manelli, Denison & Selte SEVENTH FLR. 2000 M STREET N.W. WASHINGTON, D.C. 20 Att: Warren Taltavull 5.5 ATTY DKT 85032	M# 85032 Party to Whom Cornt Should be Mailed er PLLC 20036	IST INVENTOR if not in item 1 respondence : wwt IENT REF.	B. PATENT NO(S) 6. NUMBER INVOLVE APPLNS <u>1</u> + PATS 7. AMOUNT OF FEE ABOVE TOTAL X \$ 8. IF ABOVE FEE IS I CHARGE INSUFFICIE NUMBER: 50-0687 UNDER ORDER NO dup. sheet not required	M# ED: 5: = TOTAL <u>1</u> ENCLOSED: (C 40 = \$ 40 MISSING OR IN NCY TO DEPO	ADEQUATE SIT ACCOUNT 85032 MATTER NO.
A. PAT. APP. NO.(S) series code/serial no 5. Name & Address of I Concerning Documer Manelli, Denison & Selte SEVENTH FLR. 2000 M STREET N.W. WASHINGTON, D.C. 20 Att: Warren Taltavull 5.5 ATTY DKT 85032 MATTER NO.	M# 85032 Party to Whom Cornt Should be Mailed er PLLC 20036	1ST INVENTOR if not in item 1 respondence : wwt IENT REF. the foregoing infor	B. PATENT NO(S) 6. NUMBER INVOLVE APPLNS 1 + PATS 7. AMOUNT OF FEE ABOVE TOTAL X \$ 8. IF ABOVE TOTAL X \$ 8. IF ABOVE FEE IS I CHARGE INSUFFICIE NUMBER: 50-0687 UNDER ORDER NO Idup. sheet not required mation is true and corre	M# ED: S: = TOTAL 1 ENCLOSED: (C 40 = \$ 40 MISSING OR IN NCY TO DEPO CLIENT NO. ct and any attact	ADEQUATE SIT ACCOUNT 85032 MATTER NO.
A. PAT. APP. NO.(S) series code/serial no 5. Name & Address of I Concerning Documer Manelli, Denison & Selte SEVENTH FLR. 2000 M STREET N.W. WASHINGTON, D.C. 20 Att: Warren Taltavull 5.5 ATTY DKT 85032 MATTER NO.	M# 85032 Party to Whom Cornt Should be Mailed er PLLC 20036	IST INVENTOR if not in item 1 respondence :	B. PATENT NO(S) 6. NUMBER INVOLVE APPLNS <u>1</u> + PATS 7. AMOUNT OF FEE ABOVE TOTAL X \$ 8. IF ABOVE FEE IS I CHARGE INSUFFICIE NUMBER: 50-0687 UNDER ORDER NO dup. sheet not required	M# ED: ED: ENCLOSED: (C 40 = \$ 40 MISSING OR IN NCY TO DEPO CLIENT NO. ct and any attac cluding this I document	ADEQUATE SIT ACCOUNT 85032 MATTER NO.
A. PAT. APP. NO.(S) series code/serial no 5. Name & Address of I Concerning Documer Manelli, Denison & Selte SEVENTH FLR. 2000 M STREET N.W. WASHINGTON, D.C. 20 Att: Warren Taltavull 5.5 ATTY DKT 85032 MATTER NO. 9. STATEMENT AND S To the best of my kno copy of the ordinal doc	M# 85032 Party to Whom Corn th Should be Mailed or PLLC 20036 CL SIGNATURE Weige and belief,	IST INVENTOR if not in item 1 respondence :	B. PATENT NO(S) 6. NUMBER INVOLVE APPLNS 1_ + PATS 7. AMOUNT OF FEE ABOVE TOTAL X \$ 8. IF ABOVE TOTAL X \$ 8. IF ABOVE FEE IS I CHARGE INSUFFICIE NUMBER: 50-0687 UNDER ORDER NO Idup. sheet not required mation is true and corre cotal number of pages in sheet, attachments and ot file dup. Cover sheet)	M# ED: S: = TOTAL <u>1</u> ENCLOSED: (C 40 = \$ 40 MISSING OR IN NCY TO DEPO CLIENT NO. ct and any attac	ADEQUATE SIT ACCOUNT 85032 MATTER NO.
A. PAT. APP. NO.(S) series code/serial no 5. Name & Address of I Concerning Documer Manelli, Denison & Selte SEVENTH FLR. 2000 M STREET N.W. WASHINGTON, D.C. 20 Att: Warren Taltavull 5.5 ATTY DKT 85032 MATTER NO. 9. STATEMENT AND S To the best of my kno copy of the original doce Signature	M# 85032 Party to Whom Corn th Should be Mailed or PLLC 20036 CL SIGNATURE Weige and belief,	IST INVENTOR if not in item 1 respondence : wwt IENT REF. the foregoing infor 10. T cover (do not	B. PATENT NO(S) 6. NUMBER INVOLVE APPLNS 1_ + PATS 7. AMOUNT OF FEE ABOVE TOTAL X \$ 8. IF ABOVE TOTAL X \$ 8. IF ABOVE TOTAL X \$ 8. IF ABOVE FEE IS I CHARGE INSUFFICIE NUMBER: 50-0687 UNDER ORDER NO Idup. sheet not required mation is true and corree otal number of pages in sheet, attachments and ot file dup. Cover sheet) Date: August	M# ED: S: = TOTAL <u>1</u> ENCLOSED: (C 40 = \$ 40 MISSING OR IN NCY TO DEPO CLIENT NO. ct and any attac	ADEQUATE SIT ACCOUNT 85032 MATTER NO.

PATENT REEL: 019727 FRAME: 0297

Page 1 of 2

Please return signed/recorded to:

.

٢,

USA Patent Appln. Sole or Joint

For Inventions made outside USA executed with or after application

Atty. Dkt.

73155 2547 Client Ref. M#

Manelli, Denison & Selter PLLC

2000 M Street N.W Washington, D.C. 2	. 7 th Floor 20036		I
NONPROVIS		IT	NONPROVISIONAL
	OF NONPROVISIONAL	APPLICATION	•
to the undersig	In consideration of the sum of Ten Dollars (\$10.00) ned, to wit:	and other good and valua	ble consideration paid
INSERT	⁽¹⁾ Anthony Gordon Razzell	(4)	
NAME(S) OF INVENTOR(S)	⁽²⁾ John Richard Webster	(5)	
	⁽³⁾ Geraint Wyn Jewell	[] X box if continued on page 2	
the receipt and sell(s), assign(s	sufficiency of which are hereby acknowledged by the s) and transfer(s) unto:	a undersigned who at the r	equest of, hereby
	Rolls-Royce plc, a British Company of		
INSERT NAME(S) OF	65 Buckingham Gate		
INSERT NAME(S) OF ASSIGNEE(S) & ADDRESS(ES)			
	SW1E 6AT England		
(hereinafter des 35 U.S.C. 100, reissues thereo	ignated "ASSIGNEE") the entire right, title and intere in the invention and all applications including any and f; and all resulting patents, known as	est for the United States of all divisions, continuation	America as defined in s, substitutes, and
TITLE OF INVENTION	A BLADE CLEARANCE ARRANGEMENT		
	For which the undersigned executed an application	for Letters Patent of the U	nited States of America:
NOTE	(A) deven date herewith		
(COMPLETE	(B)[] on		-
LINES A,B, AND/O		filed	
Patents and Tra successors, ass application shall successors, ass title in and to the <u>NOTE</u> $\rightarrow \rightarrow$ insert hereon an	AND the undersigned hereby authorize(s) and reque demarks to issue said Letters Patent to the said ASS igns and legal representatives; the undersigned agre hereinafter act on behalf of said ASSIGNEE; AND the undersigned hereby agree(s) to testify and igns and legal representatives, deemed essential by invention hereby transferred. The undersigned hereby authorize(s) Manelli, Denis by further identification necessary or desirable for rec	est(s) the United States Co SIGNEE, for its interest as ee(s) that the attorney of re execute any papers for A ASSIGNEE to ASSIGNEI on & Selter PLLC, of the a ordation of this document.	ommissioner of ASSIGNEE, its ecord in said SSIGNEE, its E'S full protection and bove address to
1) Name: Anthon 2) Name: John R	INVENTOR(S) DATE SIGNED mony G. Razelf 18/6/2007	WITNESSE	
3) Name: Geraint	W Jewell		
4) Name:			<u> </u>

5) Name:

IF ADDITIONAL INVENTORS, check box [] and continue on page 2.

PATENT REEL: 019727 FRAME: 0298

2000 M Street N.W. 7th Floor Washington, D.C. 20036
NONPROVISIONAL

Page 1 of 2

Please return signed/recorded to:

.

USA Patent Appin. Sole or Joint

For Inventions made outside USA executed with or after application

Dr JOINT Atty. Dkt

ct.	73155	2547
-	M#	Client Ref.
-		

Manelli, Denison & Selter PLLC

		t N.W. <u>D.C.</u> 20	7 ^m Floor)036	
NO	NPR	OVIS	IONAL	[

ASSIGNMENT OF NONPROVISIONAL APPLICATION

NONPROVISIONAL

In consideration of the sum of Ten Dollars (\$10.00) and other good and valuable consideration paid to the undersigned, to wit:

•						
INSERT NAME(S) OF	() Anthony Gordor	Razzell	(4)			
INVENTOR(S)	⁽²⁾ John Richard W	ebster	(5)			
	⁽³⁾ Geraint Wyn Jev	well	[] X box if continued on page 2			
the receipt and sell(s), assign(e undersigned who at the reque	st of, hereby		
	Rolls-Royce plc, a Britisl	n Company of				
INSERT	65 Buckingham Gate	uckingham Gate				
NAME(S) OF ASSIGNEE(S) & ADDRESS(ES)	London					
()	SW1E 6AT		·····			
	England					
(hereinafter des 35 U.S.C. 100, reissues thereo	signated "ASSIGNEE") the er in the invention and all applic of; and all resulting patents, ki	ntire right, title and intere ations including any and nown as	est for the United States of Ame d all divisions, continuations, sul	rica as defined in bstitutes, and		
TITLE OF INVENTION	A BLADE CLEARANC	E ARRANGEMENT				
·	For which the undersigned e	executed an application	for Letters Patent of the United	States of America		
NOTE	(App even date he	rewith				
(COMPLETE	(B) [] on		·			
LINES A,B, AND/O	(C) [] in U.S. Appli	cation No/	filed			
Patents and Trasuccessors, as: application shall successors, as: title in and to the <u>NOTE</u> $\rightarrow \rightarrow$ insert hereon as	AND the undersigned hereb ademarks to issue said Letter signs and legal representative li hereinafter act on behalf of AND the undersigned hereb signs and legal representative e invention hereby transferred The undersigned hereby aut ny further identification neces	y authorize(s) and requise s Patent to the said AS said ASSIGNEE; y agree(s) to testify and sa, deemed essential by d. horize(s) Manelli, Denis sary or desirable for rec	est(s) the United States Commi SIGNEE, for its interest as ASSi ee(s) that the attorney of record execute any papers for ASSIGI ASSIGNEE to ASSIGNEE'S fu won & Selter PLLC, of the above cordation of this document.	esioner of IGNEE, its in said NEE, its Il protection and address to		
1) Name: Anthon	INVENTOR(S)	DATE SIGNED	<u>WITNESSES</u>			
2) Name: John R 3) Name: Gerain		2916107	Broom	<u> </u>		
4) Name: 5) Name: IF ADDITIONAL		and continue on page :	2.			

PATENT REEL: 019727 FRAME: 0299

RECORDED: 08/07/2007