BOX ASSIGNMENTS	_ 12-:	28-2001		DO NOT US	FOR TRADEMARKS	
RECORDATION FO PATENT APPLICAT	(1)					
TO THE HONORABLE (ই 101	927000	ADEMARKS:			
SIR: PLEASE RECORD			JMENTS OR COPY TH	EREOF.	LOS	
1. NAME OF CONVEY	NG PARTY(IES) (ASSIGNOR(S)):			2	
1. NORRIS, Jennifer M. 2. KNOTT, David S. 3. JONES, Adrian M.			4. MIDGELOW, David 5. HALL, Robert M.	R.	20. 20. 20.	
ADDITIONAL NAME(S)	OF CONVEYING	PARTY(IES) ATTA	——	X NO		
2. PARTY(IES) (ASSIG	NEE(S)) RECEIVI	NG INTEREST:	12/20/2001 STEUMEL1 00	000011 10020315		
NAME: Rolls-Royce pic	. 0-1-	1	03 FC:581	40.00	OP	
65 Buckinghan London SW1E England		mrt> 12	<u>)</u>		/	
ADDITIONAL NAME(S)	& ADDRESS(ES)	ATTACHED?	YES	x	NO	
NATURE OF CONVE (Submit herewith only inventors is one_documents)	one document for	ENT): recordation — mu	Itiple copies of same As	signment signed	by different	
x ASSIGNMENT	OF X WHOL	E PART	INTEREST EXEC. D.	ATE: 11/14/01 &	11/15/01 &	
CHANGE OF N	NAME VERIF	TED TRANSLATIO	N 11/19/01	& 11/10/01		
SECURITY	MERGER	OTHER:				
4. EXECUTION DATE(S SEE ATTY!):	S) ON THE DECLA	ARATION <u>IF</u> FILE	HEREWITH: (NOTE: I	F DATES ↑↓ DIF	FER	
4.5 APPL. NO.(S) OR P	AT NO.(S). OTH	ERS ON ADDITIO	NAL SHEET(S) attached	d? YES	X NO	
A. PAT. APP. NO.(S) series code/serial no	M#	1ST INVENTOR if not in item 1	B. PATENT NO(S)	M#	1ST INVENTOR if not in item 1	
10020315	84563					
5. Name & Address of F	Party to Whom Cor	rrespondence	6. NUMBER INVOLVED:			
Concerning Documen	t Should be Mailed	d:	APPLNS_1_ + PATS:_ = TOTAL 1			
	m) 0		7. AMOUNT OF FEE ENCLOSED: (Code 581)			
Manelli, Denison & Selter PLLC SEVENTH FLR.			ABOVE TOTAL X \$40 = \$ 40			
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Att: Warren Taitavull 5.5 ATTY DKT	tt: Warren Taltavull		8. IF ABOVE FEE IS MISSING OR INADEQUATE CHARGE INSUFFICIENCY TO DEPOSIT ACCOUNT NUMBER: 50-0687			
			UNDER ORDER NO		84563	
84563	/	JENT REF.		CLIENT NO.	MATTER NO.	
9. STATEMENT AND To the best of my kill	SIGNATURE	f, the foregoing inf	ormation is true and cor	rect and any atta	ched copy is a true	
copy of the original doc	sument.	10.	Total number of pages	ncluding this id document	4	
Signature		(do	not file dup. Cover shee	l)		
Attorney: W. Warre	n Taltavull				1	
Reg. No. 25647 Attv/Sec: TEL: (202) 261-1047			n_1	NDAF LA /!!!!		
Reg. No. 25647			Date: Decer	202) 887-0336		

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For Inventions made outside USA executed with or after application

Atty. Dkt. 73155 2547 M# Client Ref.

Manelli, Denison & Selter PLLC 2000 M Street N.W. 7th Floor Washington, D.C. 20036

NONPROVISIONAL ASSIGNMENT				NONPROVISIONAL			
		OF NO	NPROVISIO	NAL AF	PPLICATION	ON	
to the undersign	In consi ned, to w	deration of the sit:	um of Ten Dollars	(\$10.00) ar	nd other good a	and valua	ble consideration paid
INSERT NAME(S) OF INVENTOR(S)	(1)	Jennifer Mar	garet Norris	1	David Rol	bert Mic	igelow
	(2)	David Sydney Knott			Robert Malcolm Hali		
	(3)	Adrian Mark	Jones		X box if continued	d on page 2	
the receipt and sell(s), assign(s	sufficiences) and trai	cy of which are h nsfer(s) unto:	ereby acknowledg	ged by the ι	undersigned wh	o at the r	request of, hereby
-	Rolls-F	Royce plc, a Bri	tish Company of				
INSERT NAME(S) OF		kingham Gate					
ASSIGNEE(S)	Londo SW1E						
•	Englan						
(hereinafter des 35 U.S.C. 100, i reissues thereof	ignated ". in the inve f; and all	ASSIGNEE") the ention and all ap resulting patents	e entire right, title a plications including , known as	and interest g any and a	for the United sall divisions, cor	States of	America as defined in s, substitutes, and
TITLE OF INVENTION		BOMACHINE					it at Otatan of Amorica
	For whic	h the undersigne	ed executed an ap	plication fo	r Letters Patent	t of the U	nited States of America
NOTE	•	(A) [X even date	herewith				
(COMPLETE		(B) [] on				led.	
LINES A,B, AND/O			oplication No				
application shall	hereina AND the	fter act on behalf undersigned he	ereby authorize(s) etters Patent to the atives; the undersi f of said ASSIGNE ereby agree(s) to tatives, deemed eserred. authorize(s) Manecessary or desira	E; estify and e sential by	execute any par ASSIGNEE to A	pers for A ASSIGNE	ommissioner of ASSIGNEE, its ecord in said ASSIGNEE, its E'S full protection and above address to t.
1) Name: Jennife	er Marga	ret Norris Knott	14TH NO	<u>GNED</u> (N) 2001	<u>w</u> i		Toplis
4) Name: David	Robert N	Midgelow			_		

5) Name: Robert Malcolm Hall

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

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73155 M#

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NONPROVISIONAL

ASSIGNMENT

NONPROVISIONAL

	OF NONPROVISION	NAL APPLICATION				
to the undersigne	n consideration of the sum of Ten Dollarsed, to wit:	s (\$10.00) and other good and valuable consideration paid				
INSERT NAME(S) OF INVENTOR(S)	Jennifer Margaret Norris	David Robert Midgelow				
	David Sydney Knott	(5) Robert Malcolm Hall				
	Adrian Mark Jones	[] X box if continued on page 2				
the receipt and si sell(s), assign(s)	ufficiency of which are hereby acknowled and transfer(s) unto:	ged by the undersigned who at the request of, hereby				
	Rolls-Royce plc, a British Company o					
NAME(C) OF	55 Buckingham Gate					
ASSIGNEE(S)	London SW1E 6AT					
	England					
(hereinafter desig	noted "ASSIGNEE") the entire right title	and interest for the United States of America as defined in g any and all divisions, continuations, substitutes, and				
INVENTION	TURBOMACHINE BLADE					
F	or which the undersigned executed an a	oplication for Letters Patent of the United States of America:				
NOTE	(A) [🔏 even date herewith					
(COMPLETE	(B) [] on					
LINES A,B, AND/OR		/ filed				
application shall	nereinafter act on behalf of said ASSIGNI ND the undersigned hereby agree(s) to ND the logal representatives, deemed ex	and request(s) the United States Commissioner of e said ASSIGNEE, for its interest as ASSIGNEE, its igned agree(s) that the attorney of record in said EE; restify and execute any papers for ASSIGNEE, its issential by ASSIGNEE to ASSIGNEE'S full protection and relli, Denison & Selter PLLC, of the above address to able for recordation of this document.				
	NVENTOR(S) DATE S	<u>GNED</u> <u>WITNESSES</u>				
1) Name: Jennifer						
2) Name: David S	ydney Knott					
Name: Adrian M	Mark Jones Obert Midgelow	101 J. Wughers				

5) Name: Robert Malcolm Hall

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

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NONPROVISIONAL

ASSIGNMENT OF NONPROVISIONAL APPLICATION

NONPROVISIONAL

to the undersign	In consideration of the sum of ned, to wit:	Ten Dollars (\$10.00)	and other good and valuable consideration paid						
INSERT NAME(S) OF	Jennifer Margaret	Norris	David Robert Midgelow	_					
INVENTOR(S)	David Sydney Kno		(5) Robert Malcolm Hall	_					
	Adrian Mark Jones	·	[] X box if continued on page 2	_					
the receipt and sell(s), assign(s	sufficiency of which are hereby and transfer(s) unto:	acknowledged by the	e undersigned who at the request of, hereby	_					
	Rolls-Royce plc, a British Co	ompany of		_					
INSERT	65 Buckingham Gate	5 Buckingham Gate							
ASSIGNEE(S)	London								
-	SW1E 6AT England								
35 U.S.C. 100, i reissues thereof	n the invention and all application; and all resulting patents, know	ns including any and n as	st for the United States of America as defined in all divisions, continuations, substitutes, and						
INVENTION [A TURBOMACHINE BLAD								
	For which the undersigned exec	cuted an application f	for Letters Patent of the United States of Americ	а					
NOTE	(A) [even date herew	rith							
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successors, ass application shall	hereinafter act on behalf of said AND the undersigned hereby a signs and legal representatives.	ASSIGNEE; gree(s) to testify and deemed essential by	est(s) the United States Commissioner of SIGNEE, for its interest as ASSIGNEE, its ee(s) that the attorney of record in said execute any papers for ASSIGNEE, its ASSIGNEE to ASSIGNEE'S full protection and son & Selter PLLC, of the above address to cordation of this document. WITNESSES						
45									
Name: Jennife	er Margaret Norris								
2) Name: David	Sydney Knott								
3) Name: Adrian	Mark Jones								
Name: Dayld Name: Rober	Robert Midgelow on the halcolunt fall the Malcolm Hall	10th Nov 20	201 la stague						

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

RECORDED: 12/18/2001