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1. Peter RUSSHARD
2. Jason David BACK

B. Additional name(s) of conveying party(ies) attached?
 Yes No

2. A. Name and address of receiving party:

ROLLS-ROYCE PLC
65 BUCKINGHAM GATE,
LONDON SW1E 6AT,
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3. A. Nature of conveyance:

Assignment Merger

Security Agreement Change of Name

Other _____

B. Execution Date: [ALL]: MAY 1, 2012

B. Additional name(s) & address(es) attached?
 Yes No

4. A. Patent Application No. 13/475,285 B. Patent No.(s)

Additional numbers attached? Yes No

C. Title of Application: ROTATING BLADE ANALYSIS

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: James A. Oliff

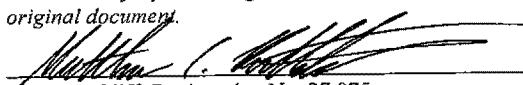
Address: **OLIFF & BERRIDGE, PLC**
P.O. Box 320850
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6. Total number of applications and patents involved: 1

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To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.



James A. Oliff, Registration No. 27,075
 Matthew C. Barthalow, Registration No. 60,323

Date: May 18, 2012

CH \$40.00 150461 13475285

ASSIGNMENT

(1-8) **Insert Name(s) of Inventor(s)**

(1) Peter RUSSHARD (4) _____

(2) Jason David BACK (5) _____

(3) _____ (6) _____

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) 65 Buckingham Gate, London SW1E 6AT, 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 such as Title, Case Number, or Foreign Application Number** (11) Rotating Blade Analysis

(Attorney Docket No. 153520)

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 _____

(13) **Alternative Identification for filed applications** (13) U.S. application Serial Number 13/475,285

filed MAY 18, 2012

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.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date	<u> 1st May 2012 </u>	Inventor Signature	<u> <i>P. Russhard</i> </u>	(SEAL)
		P Russhard		
Date	<u> 1st MAY 2012 </u>	Inventor Signature	<u> <i>J D Back</i> </u>	(SEAL)
		J D Back		
Date	_____	Inventor Signature	_____	(SEAL)
Date	_____	Inventor Signature	_____	(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	<u> 1ST MAY 2012 </u>	Witness(es) for	<u> <i>C. H.</i> </u>
		P Russhard	
Date	<u> 1st MAY 2012. </u>	Witness(es) for	<u> <i>Basil Mitchell</i> </u>
		P Russhard	
Date	<u> 1ST MAY 2012. </u>	Witness(es) for	<u> <i>C. H.</i> </u>
		J D Back	
Date	<u> 1st MAY 2012. </u>	Witness(es) for	<u> <i>Basil Mitchell</i> </u>
		J D Back	

PATENT