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09-23-2008



103526104

Attorney Docket No. 138435

Please record the attached original document or copy thereof.

1. A. Name of conveying parties:

[1] Stephen Moray BAGNALL
[2] Julian Charles MASON-FLUCKE
[3] Catherine Mary Fiona RAE
[4] Siavash PAHLAVANYALI

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
GREAT BRITAIN

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

3. A. Nature of conveyance:

☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____

B. Execution Date: [1] July 2, 2008;
[2] July 7, 2008; [3] August 11, 2008;
[4] June 28, 2008

4. ☒ This document is being filed together with a new application.

A. Patent Application No.

B. Patent No.

Additional numbers attached? ☐ Yes ☒ No

C. Title of Application: A METHOD FOR ASSESSING DEGRADATION OF A COATING
ON A COMPONENT BY MEASURING ITS SURFACE ROUGHNESS

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

Name: James A. Oliff

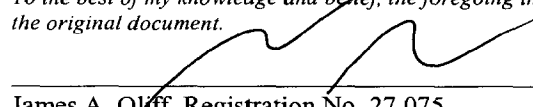
Address: **OLIFF & BERRIDGE, PLC**
P.O. Box 320850
Alexandria, VA 22320-4850

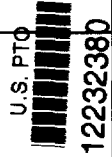
6. Total number of applications and patents involved: 17. A. Total fee (37 CFR 3.41).....\$ 40.00B. Enclosed (Check No. 210047)

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 information is true and correct and any attached copy is a true copy of the original document.


James A. Oliff, Registration No. 27,075
Scott M. Schulte, Registration No. 44,325

Date: September 16, 2008Total number of pages including cover sheet, attachments, and document: 5

12232380

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ASSIGNMENT

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

(1) Stephen Moray BAGNALL (5) _____
 (2) Julian Charles MASON-FLUCKE (6) _____
 (3) Catherine Mary Fiona RAE (7) _____
 (4) Siavash PAHLAVANYALI (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
 (10) Insert Address of Assignee

(9) Rolls-Royce plc
 (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) A Method for Assessing Degradation of a Coating on a Component by Measuring its Surface Roughness

(Attorney Docket No. 138435)

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 _____
 filed September 16, 2008

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>JULY 2nd 2008</u>	Inventor Signature <u>S M Bagnall</u> <u>SM Bagnall</u> (SEAL)
Date _____	Inventor Signature <u>J C Mason-Flucke</u> (SEAL)
Date _____	Inventor Signature <u>C M F Rae</u> (SEAL)
Date _____	Inventor Signature <u>S Pahlavanyali</u> (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>JULY 2nd 2008</u>	Witnesses for <u>S M Bagnall</u> <u>[Signature]</u> <u>[Signature]</u>
Date _____	Witnesses for <u>J C Mason-Flucke</u> _____
Date _____	Witnesses for <u>C M F Rae</u> _____
Date _____	Witnesses for <u>S Pahlavanyali</u> _____

ASSIGNMENT

(1-8)	Insert Name(s) of Inventor(s)	(1) <u>Stephen Moray BAGNALL</u> (2) <u>Julian Charles MASON-FLUCKE</u> (3) <u>Catherine Mary Fiona RAE</u> (4) <u>Siavash PAHLAVANYALI</u>	(5) _____ (6) _____ (7) _____ (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) <u>Rolls-Royce plc</u>
(10)	Insert Address of Assignee	(10) <u>65 Buckingham Gate, London SW1E 6AT, Great Britain</u>

(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) <u>A Method for Assessing Degradation of a Coating on a Component by Measuring its Surface Roughness</u> (Attorney Docket No. <u>138435</u>)
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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 _____ filed <u>September 16, 2008</u>
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In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date _____	Inventor Signature <u>S M Bagnall</u>	(SEAL)
Date <u>7th JULY 2008</u>	Inventor Signature <u>J C Mason-Flucke</u>	(SEAL)
Date _____	Inventor Signature <u>C M F Rae</u>	(SEAL)
Date _____	Inventor Signature <u>S Pahlavanyali</u>	(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 _____	Witnesses for <u>S M Bagnall</u>	
Date <u>7th JULY 2008</u>	Witnesses for <u>J C Mason-Flucke</u>	<u>[Signature]</u>
Date _____	Witnesses for <u>C M F Rae</u>	
Date _____	Witnesses for <u>S Pahlavanyali</u>	

ASSIGNMENT

(1-8)	Insert Name(s) of Inventor(s)	(1)	<u>Stephen Moray BAGNALL</u>	(5)	_____
		(2)	<u>Julian Charles MASON-FLUCKE</u>	(6)	_____
		(3)	<u>Catherine Mary Fiona RAE</u>	(7)	_____
		(4)	<u>Siavash PAHLAVANYALI</u>	(8)	_____

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(10)	Insert Address of Assignee	(10)	<u>65 Buckingham Gate, London SW1E 6AT, Great Britain</u>

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(11)	Insert Identification such as Title, Case Number, or Foreign Application Number	(11)	<u>A Method for Assessing Degradation of a Coating on a Component by Measuring its Surface Roughness</u>
		(Attorney Docket No. <u>138435</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 _____
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(13)	Alternative Identification for filed applications	(13)	U.S. application Serial Number _____
		filed <u>September 16, 2008</u>	

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

Date _____	Inventor Signature <u>S M Bagnall</u> (SEAL)
Date _____	Inventor Signature <u>J C Mason-Flucke</u> (SEAL)
Date <u>11-08-2008</u>	Inventor Signature <u>C M F Rae</u> <i>Catherine Rae</i> (SEAL)
Date _____	Inventor Signature <u>S Pahlavanyali</u> (SEAL)

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Date _____	Witnesses for <u>S M Bagnall</u>
Date _____	Witnesses for <u>J C Mason-Flucke</u>
Date <u>11 August 2008</u> <u>11 August 2008</u>	Witnesses for <u>C M F Rae</u> <i>J Berridge</i> <i>H Berridge</i>
Date _____	Witnesses for <u>S Pahlavanyali</u>

ASSIGNMENT

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

(1) Stephen Moray BAGNALL (5) _____

(2) Julian Charles MASON-FLUCKE (6) _____

(3) Catherine Mary Fiona RAE (7) _____

(4) Siavash PAHLAVANYALI (8) _____

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(10) Insert Address of Assignee (10) 65 Buckingham Gate, London SW1E 6AT, Great Britain

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(Attorney Docket No. 138435)

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(13) Alternative Identification for filed applications (13) U.S. application Serial Number _____

filed September 16, 2008

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

Date _____	Inventor Signature <u>S M Bagnall</u> (SEAL)
Date _____	Inventor Signature <u>J C Mason-Flucke</u> (SEAL)
Date _____	Inventor Signature <u>C M F Rae</u> (SEAL)
Date <u>28-06-2008</u>	Inventor Signature <u>S Pahlavanyali</u> (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 _____	Witnesses for <u>S M Bagnall</u> _____
Date _____	Witnesses for <u>J C Mason-Flucke</u> _____
Date _____	Witnesses for <u>C M F Rae</u> _____
Date <u>28-06-2008</u>	Witnesses for <u>S Pahlavanyali</u> <u>A. Ham</u> <u>P. Pahlavanyali</u>

PATENT

RECORDED: 09/16/2008

REEL: 021577 FRAME: 0386