

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT4494070

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
NATURE OF CONVEYANCE:	Corrective Assignment to correct the ASSIGNEE THAT WAS PREVIOUSLY INAVERTENTLY OMITTED. previously recorded on Reel 035699 Frame 0481. Assignor(s) hereby confirms the ROLLS-ROYCE PLC.

CONVEYING PARTY DATA

Name	Execution Date
STEPHEN MORAY BAGNALL	04/15/2015
JULIAN CHARLES MASON-FLUCKE	04/15/2015
CATHERINE MARY FIONA RAE	04/27/2015
SIAVASH PAHLAVANYALI	04/29/2015

RECEIVING PARTY DATA

Name:	ROLLS-ROYCE PLC
Street Address:	62, BUCKINGHAM GATE
City:	LONDON
State/Country:	GREAT BRITAIN
Postal Code:	SW1E 6AT
Name:	THE CHANCELLOR, MASTERS AND SCHOLARS OF THE UNIVERSITY OF CAMBRIDGE
Street Address:	THE OLD SCHOOLS,
Internal Address:	TRINITY LANE
City:	CAMBRIDGE
State/Country:	GREAT BRITAIN
Postal Code:	CB2 1TN

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14690965

CORRESPONDENCE DATA

Fax Number: (703)836-2787

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 7038366400

Email: email@oliff.com

Correspondent Name: OLIFF PLC

Address Line 1: 277 SOUTH WASHINGTON STREET

PATENT

Address Line 4: ALEXANDRIA, VIRGINIA 22314

ATTORNEY DOCKET NUMBER: 165989

NAME OF SUBMITTER: SONIA BANKS

SIGNATURE: /SoniaBanks/

DATE SIGNED: 07/07/2017

Total Attachments: 10

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PATENT ASSIGNMENT COVER SHEET

onic Version v1.1
 esheet Version v1.2

EPAS ID: PAT4462511

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
NATURE OF CONVEYANCE:	Corrective Assignment to correct the THE NORA IS BEING CORRECTED TO ADD THE SECOND ASSIGNEE previously recorded on Reel 035699 Frame 0481. Assignor(s) hereby confirms the ROLLS-ROYCE, PLC.

CONVEYING PARTY DATA

Name	Execution Date
STEPHEN MORAY BAGNALL	04/15/2015
JULIAN CHARLES MASON-FLUCKE	04/15/2015
CATHERINE MARY FIONA RAE	04/27/2015
SIAVASH PAHLAVANYALI	04/29/2015

RECEIVING PARTY DATA

Name:	ROLLS-ROYCE PLC
Street Address:	62, BUCKINGHAM GATE
City:	LONDON
State/Country:	GREAT BRITAIN
Postal Code:	SW1E 6AT
Name:	THE CHANCELLOR, MASTERS AND SCHOLARS OF THE UNIVERSITY OF CAMBRIDGE
Street Address:	THE OLD SCHOOLS,
Internal Address:	TRINITY LANE
City:	CAMBRIDGE
State/Country:	GREAT BRITAIN
Postal Code:	CB2 1TN

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14690965

CORRESPONDENCE DATA

Fax Number: (703)836-2787

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Phone: 7038366400

Email: email@oliff.com

Correspondent Name: OLIFF PLC

Address Line 1: 277 SOUTH WASHINGTON STREET

Address Line 4: ALEXANDRIA, VIRGINIA 22314

503319253 05/22/2015

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT3365872

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Stephen Moray BAGNALL	04/15/2015
Julian Charles MASON-FLUCKE	04/15/2015
Catherine Mary Fiona RAE	04/27/2015
Siavash PAHLAVANYALI	04/29/2015
RECEIVING PARTY DATA	
Name:	Rolls-royce Plc
Street Address:	62 Buckingham Gate
City:	London
State/Country:	Great Britain
Postal Code:	SW1E 6AT
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	14690965
CORRESPONDENCE DATA	
Fax Number:	(703)836-2787
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
Phone:	703-836-6400
Email:	email@oliff.com
Correspondent Name:	JAMES A. OLIFF
Address Line 1:	OLIFF PLC
Address Line 2:	P.O. BOX 320850
Address Line 4:	ALEXANDRIA, VIRGINIA 22320-4850
ATTORNEY DOCKET NUMBER:	165989
NAME OF SUBMITTER:	CYNTHIA KLINE
SIGNATURE:	/Cynthia Kline/
DATE SIGNED:	05/22/2015
This document serves as an Oath/Declaration (37 CFR 1.63).	
Total Attachments: 6	

PATENT
REEL: 043108 FRAME: 0276

**ASSIGNMENT (BEING FILED FOR DUAL PURPOSE UNDER 37 CFR 1.63(e))
For Application with Filing Date on or after September 16, 2012**

ASSIGNMENT

(1-8)	Insert Legal Name(s) of Inventor(s)	(1) <u>Stephen Moray BACNALL</u>	(2) <u>Julian Charles MASON-FLUCKE</u>
		(3) <u>Catherine Mary Fiona RAE</u>	(4) <u>Slavash 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, the receipt and sufficiency of which are hereby acknowledged, each undersigned agrees to assign, and hereby does assign, transfer and set over to

(9)	Insert Name of Assignee	(9 & 10) <u>ROLLS-ROYCE PLC, 62 Buckingham Gate, London, SW1E 6AT, Great Britain</u>
(10)	Insert Address of Assignee	<u>THE CHANCELLOR, MASTERS AND SCHOLARS OF THE UNIVERSITY OF CAMBRIDGE, The Old Schools, Trinity Lane, Cambridge CB2 1TN, 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 of Testing the Oxidation Resistance of an Alloy</u>
		(Attorney Docket No. _____)

(12)	Alternative Identification for filed applications	(12) U.S. Application Number <u>14/690,965</u>
		filed <u>April 20, 2015</u>

- 1) Each undersigned agrees to execute all papers necessary in connection with any application and/or patent for the invention 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 patents 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 and other issuing authorities to issue any and all patents 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 agreement(s) in conflict herewith, and agrees that this assignment is binding on Assignor and Assignor's heirs, successors, assigns and legal representatives.
- 6) Each undersigned hereby grants the firm of **OLIFF 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.

(13) Declaration

As an above named inventor, I hereby declare that:



I believe I am the original inventor or an original joint inventor of a claimed invention (or claimed design) in the above-identified application for which this declaration is being submitted.

The application was made or authorized to be made by me.

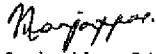


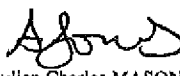
I have reviewed and understand the contents of the above-identified application, including the claims, and am aware of the duty to disclose to the Office all information known to me to be material to patentability as defined in 37 CFR § 1.56.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

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

Date	<u>15th APRIL 2015</u>	Inventor Signature	<u></u> Stephen Moray BAGNALL (SEAL)
Date	<u>15th APRIL 2015</u>	Inventor Signature	<u></u> Julian Charles MASON-FLUCKE (SEAL)
Date	_____	Inventor Signature	<u>Catherine Mary Fiona RAE</u> (SEAL)
Date	_____	Inventor Signature	<u>Siavash 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>15th APRIL 2015</u>	Witness	<u> for Stephen Moray BAGNALL</u>
Date	<u>15th APRIL 2015</u>	Witness	<u> for Stephen Moray BAGNALL</u>
Date	<u>15th APRIL 2015</u>	Witness	<u> for Julian Charles MASON-FLUCKE</u>
Date	<u>15th APRIL 2015</u>	Witness	<u> for Julian Charles MASON-FLUCKE</u>
Date	_____	Witness	<u>for Catherine Mary Fiona RAE</u>
Date	_____	Witness	<u>for Catherine Mary Fiona RAE</u>
Date	_____	Witness	<u>for Siavash PAHLAVANYALI</u>
Date	_____	Witness	<u>for Siavash PAHLAVANYALI</u>

ASSIGNMENT (BEING FILED FOR DUAL PURPOSE UNDER 37 CFR 1.63(e))

For Application with Filing Date on or after September 16, 2012

ASSIGNMENT

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

In consideration of the sum of one dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned, the receipt and sufficiency of which are hereby acknowledged, each undersigned agrees to assign, and hereby does assign, transfer and set over to

(9) Insert Name of Assignee	(9 & 10) <u>ROLLS-ROYCE PLC, 62 Buckingham Gate, London, SW1E 6AT, Great Britain</u>
(10) Insert Address of Assignee	<u>THE CHANCELLOR, MASTERS AND SCHOLARS OF THE UNIVERSITY OF CAMBRIDGE, The Old Schools, Trinity Lane, Cambridge CB2 1TN, 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 of Testing the Oxidation Resistance of an Alloy</u> (Attorney Docket No. _____)
--	---

(12) Alternative Identification for filed applications	(12) U.S. Application Number <u>14/690,965</u> filed <u>April 20, 2015</u>
--	---

- 1) Each undersigned agrees to execute all papers necessary in connection with any application and/or patent for the invention and also to execute separate assignments in connection with such applications and patents as the Assignee may deem necessary.
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- 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 and other issuing authorities to issue any and all patents 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 agreement(s) in conflict herewith, and agrees that this assignment is binding on Assignor and Assignor's heirs, successors, assigns and legal representatives.
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(13) Declaration

As an above named inventor, I hereby declare that:

I believe I am the original inventor or an original joint inventor of a claimed invention (or claimed design) in the above-identified application for which this declaration is being submitted.

The application was made or authorized to be made by me.

I have reviewed and understand the contents of the above-identified application, including the claims, and am aware of the duty to disclose to the Office all information known to me to be material to patentability as defined in 37 CFR §1.56.

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

Date _____ Inventor Signature Stephen Moray BAGNALL (SEAL)

Date _____ Inventor Signature Julian Charles MASON-FLUCKE (SEAL)

Date 27/04/2015 Inventor Signature *Catherine RAE*
Date _____ Inventor Signature Catherine Mary Fiona RAE (SEAL)

Date _____ Inventor Signature Siavash PAHLAVANYALI (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 _____ Witness for Stephen Moray BAGNALL

Date _____ Witness for Stephen Moray BAGNALL

Date _____ Witness for Julian Charles MASON-FLUCKE

Date _____ Witness for Julian Charles MASON-FLUCKE

Date William J. Cliff 27/4/2015 Witness for Catherine Mary Fiona RAE

Date 28/4/2015 Witness *Mirshad Lemm*
for Catherine Mary Fiona RAE

Date _____ Witness for Siavash PAHLAVANYALI

Date _____ Witness for Siavash PAHLAVANYALI

**ASSIGNMENT (BEING FILED FOR DUAL PURPOSE UNDER 37 CFR 1.63(e))
For Application with Filing Date on or after September 16, 2012**

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(1-8)	Insert Legal 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>Siyash PAHLAVANYALI</u>
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(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 of Testing the Oxidation Resistance of an Alloy</u>
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In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date _____ Inventor Signature Stephen Moray BAGNALL (SEAL)

Date _____ Inventor Signature Julian Charles MASON-FLUCKE (SEAL)

Date _____ Inventor Signature Catherine Mary Fiona RAE (SEAL)

Date  29/04/2015 Inventor Signature Siavash PAHLAVANYALI (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 _____ Witness for Stephen Moray BAGNALL

Date _____ Witness for Stephen Moray BAGNALL


Date _____ Witness for Julian Charles MASON-FLUCKE

Date _____ Witness for Julian Charles MASON-FLUCKE

Date _____ Witness for Catherine Mary Fiona RAE

Date _____ Witness for Catherine Mary Fiona RAE

Date  29/4/15 Witness for Siavash PAHLAVANYALI

Date  29/4/15 Witness for Siavash PAHLAVANYALI