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Patent and Trademark Office

Attorney Docket No. 159701

Please record the attached original document or copy thereof.

1. A. Name of conveying parties:

1. Anthony John MORAN
2. Christopher Luke FORD
3. Jonathan Frederick CARROTTE
4. Alastair Duncan WALKER

B. Additional names of conveying parties 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 & address attached?

☐ Yes ☒ No

3. A. Nature of conveyance:

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

B. Execution Date: _____

1. October 8, 2013

2. October 7, 2013

3. October 7, 2013

4. October 7, 2013

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

A. Patent Application No.

B. Patent No. _____

14/090755

Additional numbers attached? ☐ Yes ☒ NoC. Title of Application: A FUEL INJECTOR AND A GAS TURBINE ENGINE COMBUSTION CHAMBERD. ☒ This Assignment is submitted for a dual purpose: (1) recording in the assignment database; and (2) for use in the above-identified application as the oath or declaration pursuant to 37 CFR 1.63(c).

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
email@oliff.com

6. Total number of applications and patents involved: 1

7. Please charge Deposit Account No. 15-0461 the total fee (37 CFR 3.41) in the amount of \$40.00.

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
Olga Hernandez, Registration No. 58,232
Todd M. Guise, Registration No. 46,748

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Date: November 26, 2013Total number of pages including cover sheet, attachments, and document: 7

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>ANTHONY JOHN MORAN</u> (3) <u>JONATHAN FREDERICK CARROTTE</u> (5) _____ (7) _____	(2) <u>CHRISTOPHER LUKE FORD</u> (4) <u>ALASTAIR DUNCAN WALKER</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 (10) Insert Address of Assignee	(9) <u>ROLLS-ROYCE PLC</u> (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 FUEL INJECTOR AND A GAS TURBINE ENGINE COMBUSTION CHAMBER</u> <u>5192 TAL</u> (Attorney Docket No. <u>159701</u>)	
(12) Alternative Identification for filed applications	(12) U.S. Application Number _____ filed <u>November 26, 2013</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 & 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.

(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>8th OCTOBER 2013</u>	Inventor Signature	<u><i>Anthony John Moran</i></u> ANTHONY JOHN MORAN	(SEAL)
Date	_____	Inventor Signature	<u>CHRISTOPHER LUKE FORD</u>	(SEAL)
Date	_____	Inventor Signature	<u>JONATHAN FREDERICK CARROTTE</u>	(SEAL)
Date	_____	Inventor Signature	<u>ALASTAIR DUNCAN WALKER</u>	(SEAL)
Date	_____	Inventor Signature	_____	(SEAL)
Date	_____	Inventor Signature	_____	(SEAL)
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>8th OCTOBER 2013</u>	Witness for Anthony John Moran	<u><i>S. Wright</i></u>
Date	<u>8th October 2013</u>	Witness for Anthony John Moran	<u><i>F. L. W.</i></u>
Date	_____	Witness for Christopher Luke Ford	_____
Date	_____	Witness for Christopher Luke Ford	_____

Date _____	Witness for Jonathan Frederick Carrotte	_____
Date _____	Witness for Jonathan Frederick Carrotte	_____
Date _____	Witness for Alastair Duncan Walker	_____
Date _____	Witness for Alastair Duncan Walker	_____

**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) ANTHONY JOHN MORAN (3) JONATHAN FREDERICK CARROTTE (5) _____ (7) _____	(2) CHRISTOPHER LUKE FORD (4) ALASTAIR DUNCAN WALKER (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) 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) A FUEL INJECTOR AND A GAS TURBINE ENGINE COMBUSTION CHAMBER 5192 TAL (Attorney Docket No. <u>159701</u>)	
(12)	Alternative Identification for filed applications	(12) U.S. Application Number filed <u>November 26, 2013</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 & 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.

(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 _____	Inventor Signature <u>ANTHONY JOHN MORAN</u> (SEAL)
Date <u>October 7-10-2013</u>	Inventor Signature <u>Chris Ford</u> <u>CHRISTOPHER LUKE FORD</u> (SEAL)
Date <u>October 7-10-2013</u>	Inventor Signature <u>[Signature]</u> <u>JONATHAN FREDERICK CARROTTE</u> (SEAL)
Date <u>October 7-10-2013</u>	Inventor Signature <u>[Signature]</u> <u>ALASTAIR DUNCAN WALKER</u> (SEAL)
Date _____	Inventor Signature _____ (SEAL)
Date _____	Inventor Signature _____ (SEAL)
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 _____	Witness for Anthony John Moran	_____
Date _____	Witness for Anthony John Moran	_____
Date <u>7th October 2013</u>	Witness for Christopher Luke Ford	<u>[Signature]</u>
Date <u>October 7/10/2013</u>	Witness for Christopher Luke Ford	<u>[Signature]</u>

Date 7th October 2013

Witness for
Jonathan
Frederick
Carrotte

P.A.I.

Date 7th October 2013

Witness for
Jonathan
Frederick
Carrotte

L. Seal

Date 7th October 2013

Witness for
Alastair Duncan
Walker

P.A.I.

Date 7th October 2013

Witness for
Alastair Duncan
Walker

L. Seal