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U.S. DEPARTMENT OF COMMERCE  
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11-20-2009



103581214

Attorney Docket No. 143568

U.S. PTO

12591260  
111309

Please record the attached original document or copy thereof.

11-13-09  
1. A. Name of conveying parties:

[1] Samuel Alexander MASON  
[2] Mark David TAYLOR  
[3] Torbjorn Ola LINDQUIST  
[4] Robert John MILLER  
[5] Jonathan James Harvey HEFFER

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

3. A. Nature of conveyance:

☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other \_\_\_\_\_

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

B. Execution Date: [1] October 1, 2009;  
[2] October 12, 2009; [3] August 26, 2009; and  
[4] & [5] August 28, 2009

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

A. Patent Application No.(s) \_\_\_\_\_

B. Patent No.(s) \_\_\_\_\_

Additional numbers attached? ☐ Yes ☒ No

C. Title of Application: A GAS TURBINE ENGINE

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: 1

7. A. Total fee (37 CFR 3.41).....\$ 40.00

B. Enclosed (Check No. 223920)

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.

01 FC:8021

40.00 OP

Date: November 13, 2009

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

Total number of pages including cover sheet, attachments, and document: 4

# ASSIGNMENT

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

(1) SAMUEL ALEXANDER MASON (5) JONATHAN JAMES HARVEY HEFFER

(2) MARK DAVID TAYLOR (6) \_\_\_\_\_

(3) TORBJORN OLA LINDQUIST (7) \_\_\_\_\_

(4) ROBERT JOHN MILLER (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, continuation, 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 GAS TURBINE ENGINE

4224 TAL

(Attorney Docket No. 143568)

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 [1] October 1, 2009; [2] October 12, 2009; [3] August 26, 2009; [4] & [5] August 28, 2009

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

filed November 13, 2009

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6) Each undersigned hereby grants the firm of OLIFF & BERRIDGE, PLLC 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 recording of this document.

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

Date	<u>1st October 2009</u>	Inventor Signature	<u>Samuel A Mason</u>	(SEAL)
Date	<u>12 October 2009</u>	Inventor Signature	<u>Mark David Taylor</u>	(SEAL)
Date	_____	Inventor Signature	<u>Torbjorn Ola Lindquist</u>	(SEAL)
Date	_____	Inventor Signature	<u>Robert John Miller</u>	(SEAL)
Date	_____	Inventor Signature	<u>Jonathan James Harvey Heffer</u>	(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>1st October 2009</u>	Witness	<u>Byoung-ik Choi</u>
Date	<u>1st October 2009</u>	Witness	<u>Ki-Loon Nam</u>
	<u>12 October 2009</u>		<u>C. Aulisa</u>

# ASSIGNMENT

(1-8)	Insert Name(s) of Inventor(s)	(1) <u>SAMUEL ALEXANDER MASON</u> (2) <u>MARK DAVID TAYLOR</u> (3) <u>TORBJORN OLA LINDQUIST</u> (4) <u>ROBERT JOHN MILLER</u>	(5) <u>JONATHAN JAMES HARVEY HEFFER</u> (6) _____ (7) _____ (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 GAS TURBINE ENGINE</u> <u>4224 TAL</u> (Attorney Docket No. <u>143568</u> )
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In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date _____	Inventor Signature _____	(SEAL) <u>Samuel Alexander Mason</u>
Date _____	Inventor Signature _____	(SEAL) <u>Mark David Taylor</u>
Date <u>26 Aug 2009</u>	Inventor Signature _____	(SEAL) <u>Torbjorn Ola Lindquist</u>
Date _____	Inventor Signature _____	(SEAL) <u>Robert John Miller</u>
Date _____	Inventor Signature _____	(SEAL) <u>Jonathan James Harvey Heffer</u>
Date _____	Inventor Signature _____	(SEAL) _____
Date _____	Inventor Signature _____	(SEAL) _____
Date _____	Inventor Signature _____	(SEAL) _____

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Date <u>26 August 2009</u>	Witness <u>C. Anzola</u>	_____
Date <u>26 August 2009</u>	Witness <u>Y A Jille</u>	_____

# ASSIGNMENT

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

(1) SAMUEL ALEXANDER MASON (5) JONATHAN JAMES HARVEY HEFFER

(2) MARK DAVID TAYLOR (6) \_\_\_\_\_

(3) TORBJORN OLA LINDQUIST (7) \_\_\_\_\_

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Date _____	Inventor Signature _____	(SEAL)
Date _____	Inventor Signature _____	(SEAL)
Date _____	Inventor Signature _____	(SEAL)
Date <u>28 August 2009</u>	Inventor Signature <u>Robert John Miller</u>	(SEAL)
Date <u>28 August 2009</u>	Inventor Signature <u>Jonathan James Harvey Heffer</u>	(SEAL)
Date _____	Inventor Signature _____	(SEAL)
Date _____	Inventor Signature _____	(SEAL)
Date _____	Inventor Signature _____	(SEAL)

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Date 28 August 2009 Witness C. Aneba

Date 28 August 2009 Witness YA [Signature]

# **ASSIGNMENT**

(1-5) Insert Name(s) of Inventor(s)	(1) <u>SAMUEL ALEXANDER MASON</u>	(6) <u>JONATHAN JAMES HARVEY HEFTER</u>
	(2) <u>MARK DAVID TAYLOR</u>	(7) _____
	(3) <u>TORBJORN OLA LINDQVIST</u>	(8) _____
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Date	<u>1st October 2009</u>	Inventor Signature	<u>Samuel A Mason</u>	(SEAL)
			Samuel Alexander Mason	
Date	<u>12 October 2009</u>	Inventor Signature	<u>Mark David Taylor</u>	(SEAL)
			Mark David Taylor	
Date		Inventor Signature	<u>Torbjorn Ola Lindqvist</u>	(SEAL)
			Torbjorn Ola Lindqvist	
Date		Inventor Signature	<u>Robert John Miller</u>	(SEAL)
			Robert John Miller	
Date		Inventor Signature	<u>Jonathan James Harvey Hefter</u>	(SEAL)
			Jonathan James Harvey Hefter	
Date		Inventor Signature	_____	(SEAL)
Date		Inventor Signature	_____	(SEAL)
Date		Inventor Signature	_____	(SEAL)

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Date	<u>1st October 2009</u>	Witness	<u>Byoung-ik Choi</u>
Date	<u>1st October 2009</u>	Witness	<u>Ki-woon Nam</u>
	<u>12 October 2009</u>		<u>C. [Signature]</u>

**PATENT**

**REEL: 023544 FRAME: 0569**

# **ASSIGNMENT**

(1-8)	Insert Name(s) of Inventor(s)	(1) <u>SAMUEL ALEXANDER MASON</u>	(5) <u>JONATHAN JAMES HARVEY HEFFER</u>
		(2) <u>MARK DAVID TAYLOR</u>	(6) _____
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Date <u>26 August 2009</u>	Witness <u>C. Anesca</u>
Date <u>26 August 2009</u>	Witness <u>Y A Little</u>

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(10) Insert Address of Assignee

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(10) 65 BUCKINGHAM GATE, LONDON, SW1E 6AT, GREAT BRITAIN

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

Date _____	Inventor Signature _____	<u>Samuel Alexander Mason</u> (SEAL)
Date _____	Inventor Signature _____	<u>Mark David Taylor</u> (SEAL)
Date _____	Inventor Signature _____	<u>Torbjorn Ola Lindquist</u> (SEAL)
Date <u>28 August 2009</u>	Inventor Signature _____	<u>Robert John Miller</u> (SEAL)
Date <u>28 August 2009</u>	Inventor Signature _____	<u>Jonathan James Harvey Heffer</u> (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>28 August 2009</u>	Witness <u>C. Ayuba</u>
Date <u>28 August 2009</u>	Witness <u>YA Little</u>

PATENT

RECORDED: 11/13/2009

REEL: 023544 FRAME: 0571