

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
JOSEPH L. HOBBS	09/25/2013
JENNIFER A.M. SIDEY	09/26/2013
ROBERT L. GORDON	10/09/2013
EPAMINONDAS MASTORAKOS	09/23/2013
GILLES BOURQUE	10/09/2013
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<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	14143589
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<b>ATTORNEY DOCKET NUMBER:</b>	2013P27563US01 (232)
<b>NAME OF SUBMITTER:</b>	LUANN SWEET
<b>SIGNATURE:</b>	/Luann Sweet/
<b>DATE SIGNED:</b>	01/21/2016
<b>Total Attachments: 8</b>	

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## ASSIGNMENT BY INVENTORS

**THIS ASSIGNMENT**, made this 9<sup>th</sup> day of October, 2013, by Joseph L. Hobbs; Jennifer A.M. Sidey; Robert L. Gordon; Epaminondas Mastorakos; and Gilles Bourque (hereinafter referred to as Assignors), residing at 59 South Road, Faversham, Kent ME13 7LT, UNITED KINGDOM; Jesus College, Cambridge, CB5 8BL, UNITED KINGDOM; 3835 Hotel De Ville, Unit 6, Montreal, Quebec H2W 2G6, CANADA; 14 Fitzwilliam Road, Cambridge, CB2 8BN, UNITED KINGDOM; and 105 de la Fraternité, Léry, Quebec J6N 3N8, CANADA, respectively;

**WHEREAS**, Assignors have invented certain new and useful improvements in LEAN AZIMUTHAL FLAME COMBUSTOR, set forth in a Provisional application for Letters Patent of the United States, already filed on March 13, 2013 as U.S. Application No. 61/780,835; and

**WHEREAS**, Rolls-Royce Canada, Ltd., having its principal place of business at 9500 Cote de Liesse Road, Lachine, Montreal, Quebec H8T 1A2, CANADA (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title and interest in and to said inventions and said Application for Letters Patent of the United States, and in and to any Letters Patent of the United States to be obtained therefore and thereon.

**NOW, THEREFORE**, for good and valuable consideration, the receipt of which is hereby acknowledged, Assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and assigns, the entire worldwide right, title and interest in and to the above-mentioned inventions and application for Letters Patent, and in and to any and all direct and indirect divisions, continuations and continuations-in-part of said application, and any and all Letters Patent in the United States and all foreign countries which may be granted therefore and thereon, and reissues, reexaminations and extensions of said Letters Patent, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by Assignee, for its own use and benefit and the use and benefit of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent may be

granted and/or extended, as fully and entirely as the same would have been held and enjoyed by Assignors, had this sale and assignment not been made.

**AND** for the same consideration, Assignors hereby represent and warrant to Assignee, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, except for any rights, titles and/or interests that have arisen to Assignee under law or that have already been transferred to Assignee, Assignors are the sole and lawful owners of the entire right, title and interest in and to the said inventions and application for Letters Patent above-mentioned, and that the same are unencumbered and that Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

**AND** for the same consideration, Assignors hereby covenant and agree to and with Assignee, its successors, legal representatives and assigns, that Assignors will sign all papers and documents, take all lawful oaths and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any Letters Patent and applications for Letters Patent for said inventions, without charge to Assignee, its successors, legal representatives and assigns, whenever counsel of Assignee, or counsel of its successors, legal representatives and assigns, shall advise: that any proceeding in connection with said inventions, or said Provisional application for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said inventions in any country, including but not limited to interference proceedings, is lawful and desirable; or, that any division, continuation or continuation-in-part of any application for Letters Patent, or any reissue, reexamination or extension of any Letters Patent, to be obtained thereon, is lawful and desirable.

**AND** Assignors hereby request the Commissioner for Patents and Trademarks to issue said Letters Patent of the United States to Assignee, as Assignee of said inventions and the Letters Patent to be issued thereon, for the sole use and benefit of Assignee, its successors, legal representatives and assigns.

**AND** Assignors hereby grant the following individuals the power to insert on this Assignment any further identification which 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:

RADER, FISHMAN & GRAUER PLLC

All practitioners at Customer Number 10291

**AND** Assignors acknowledge an obligation of assignment of this invention to Assignee at the time the invention was made.

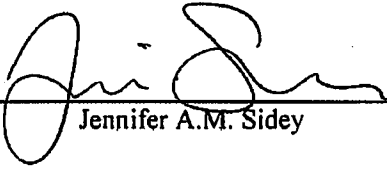
J L Hobbs  
Joseph L. Hobbs

Date: 25/09/2013

United States of America Kingdom )  
State of \_\_\_\_\_ ) ss.:  
County of \_\_\_\_\_ )

On this 25<sup>th</sup> day of September, 2013, before me personally came Joseph L. Hobbs, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

KACraham  
~~Notary Public~~ witness

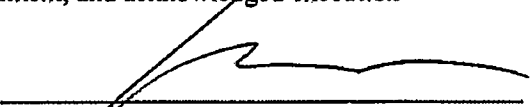
  
Jennifer A.M. Sidey

Date: September 26/13

*PROV*  
~~United States of America~~ CANADA )  
State of BC ) ss.:  
County of NANAIMO )

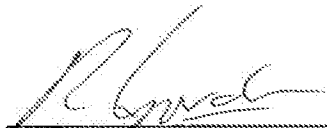
On this 26<sup>th</sup> day of SEPTEMBER, 2013, before me TOM FINKELSTEIN  
personally came Jennifer A.M. Sidey, to me known to be the individual  
described in and who executed the foregoing instrument, and acknowledged execution  
of the same.

*THIS IS PAGE 5 OF  
ASSIGNMENT BY INVENTOR)*

  
Notary Public

**TOM FINKELSTEIN**  
Barrister & Solicitor  
211C - 750 Comox Road  
Courtenay BC V9N 3P6  
Telephone (250) 897-1000


9<sup>th</sup> October 2013  
Date

  
Robert E. Gordon

Witness:

9/10/13  
Date

Brigitte Piolo  
Printed Name of Witness

  
Witness Signature



*Epaminondas Mastorakos*  
Epaminondas Mastorakos

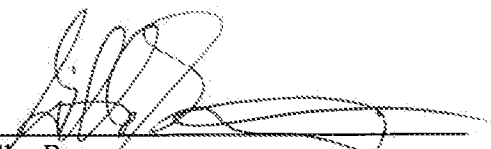
Date: 23/9/13

~~United States of America~~ UK )  
State of \_\_\_\_\_ ) ss.:  
County of Cambridgeshire )

On this 23<sup>rd</sup> day of September, 2013, before me personally came Epaminondas Mastorakos, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

*KACMham*  
~~Notary Public~~ witnessed

9/10/13  
Date

  
Gilles Bourque

Witness:

9/10/13  
Date

Brigitte Piolo  
Printed Name of Witness

  
Witness Signature