

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4185145

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
TED FREEMAN	11/30/2016
TODD ENGEL	11/18/2016
ADAM CHAMBERLAIN	12/02/2016
AARON SIPPEL	11/21/2016
SEAN LANDWEHR	12/05/2016
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	ROLLS-ROYCE CORPORATION
<b>Street Address:</b>	450 S. MERIDIAN STREET
<b>City:</b>	INDIANAPOLIS
<b>State/Country:</b>	INDIANA
<b>Postal Code:</b>	46225
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15370824
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(317)634-6701
<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>	
<b>Phone:</b>	317-636-0886
<b>Email:</b>	plunsford@brinksgilson.com, brinksindy@brinksgilson.com
<b>Correspondent Name:</b>	PAUL S. LUNSFORD, JR.
<b>Address Line 1:</b>	201 N. ILLINOIS STREET
<b>Address Line 2:</b>	SUITE 1100
<b>Address Line 4:</b>	INDIANAPOLIS, INDIANA 46204
<b>ATTORNEY DOCKET NUMBER:</b>	15448-387
<b>NAME OF SUBMITTER:</b>	PAUL S. LUNSFORD, JR.
<b>SIGNATURE:</b>	/Paul Lunsford/
<b>DATE SIGNED:</b>	12/14/2016
<b>Total Attachments: 6</b>	

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## ASSIGNMENT

WHEREAS, Ted Freeman, Todd Engle, Adam Chamberlain, Aaron Sippel, and Sean Landwehr, hereinafter called the "Assignors", have made the invention described in the United States Patent Application filed herewith, entitled FIBER REINFORCED AIRFOIL, and United States Provisional Patent Application No. 62/301,286, filed on February 29, 2016 (Docket No. 15448-287 RCA11528-PROV2); and United States Provisional Patent Application No. 62/269,652, (Docket No. 15448-277 RCA11528-PROV), filed on December 18, 2015; and any and all applications claiming the benefit thereof including the right of priority.

WHEREAS, Rolls-Royce Corporation, a corporation organized and existing under the laws of the State of Indiana, having a place of business at 450 S. Meridian Street, Indianapolis, IN 46225, hereinafter called the "Assignee", desires to acquire the entire right, title and interest in and to the invention and the patent applications identified above, and all patents which may be obtained for said invention, as set forth below;

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00), and other valuable and legally sufficient consideration, the receipt of which by the Assignors from the Assignee is hereby acknowledged, the Assignors have sold, assigned and transferred, and by these presents do sell, assign and transfer to the Assignee, the entire right, title and interest for the United States in and to the invention and the patent applications identified above, and any patents that may issue for said invention in the United States; together with the entire right, title and interest in and to said invention and all patent applications and patents issuing therefrom in all countries foreign to the United States, including the full right to claim for any such application all benefits and priority rights under any applicable convention; together with the entire right, title and interest in and to all continuations, divisions, renewals and extensions of any of the patent applications and patents defined above; together with the right to recover all damages, including, but not limited to, a reasonable royalty, by reason of past, present, or future infringement or any other violation of patent or patent application rights; to

have and to hold for the sole and exclusive use and benefit of the Assignee, its successors and assigns, to the full end of the term or terms for all such patents. The Assignors hereby sell, assign, and transfer the entire right, title and interest to the Assignee as of the day of filing the application identified above.

The Assignors hereby covenant and agree, for both the Assignors and the Assignors' legal representatives, that the Assignors will assist the Assignee in the prosecution of the patent applications identified above; in the making and prosecution of any other patent applications that the Assignee may elect to make covering the invention identified above; in vesting in the Assignee like exclusive title in and to all such other patent applications and patents; and that the Assignors will execute and deliver to the Assignee any and all additional papers which may be requested by the Assignee to carry out the terms of this Assignment.

The Commissioner of Patents and Trademarks is hereby authorized and requested to issue patents to the Assignee in accordance with the terms of this Assignment.

IN TESTIMONY WHEREOF, the Assignors have executed this agreement.

DATED:

11/30/16

  
\_\_\_\_\_  
Ted Freeman

DATED:

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Todd Engle

DATED:

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\_\_\_\_\_  
Adam Chamberlain

DATED:

\_\_\_\_\_

\_\_\_\_\_  
Aaron Sippel

DATED:

\_\_\_\_\_

\_\_\_\_\_  
Sean Landwehr

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DATED:	11/18/16	_____ Todd Engle Engel
DATED:	_____	_____ Adam Chamberlain
DATED:	_____	_____ Aaron Sippel
DATED:	_____	_____ Sean Landwehr

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Ted Freeman

DATED:

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\_\_\_\_\_  
Todd Engle

DATED:

\_\_\_\_\_  
12/2/2016

\_\_\_\_\_  
  
Adam Chamberlain

DATED:

\_\_\_\_\_

\_\_\_\_\_  
Aaron Sippel

DATED:

\_\_\_\_\_

\_\_\_\_\_  
Sean Landwehr

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DATED: \_\_\_\_\_ Adam Chamberlain

DATED: 11/21/2016 \_\_\_\_\_  
Aaron Sippel

DATED: \_\_\_\_\_ Sean Landwehr

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DATED: \_\_\_\_\_ Aaron Sippel

DATED: 12/5/2016 \_\_\_\_\_ Sean Landwehr