

<b>PATENT ASSIGNMENT COVER SHEET</b>
--------------------------------------

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5736255

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
BRETT BARKER	08/08/2017
BRUCE VARNEY	08/08/2017
BRIAN SHOEMAKER	08/08/2017
CHARLES BULGRIN	09/04/2017
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	ROLLS-ROYCE CORPORATION
<b>Street Address:</b>	450 SOUTH 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>	16580784
<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>	brinksindy@brinksgilson.com, wkirkwood@brinksgilson.com, dhasler@brinksgilson.com
<b>Correspondent Name:</b>	WESLEY N. KIRKWOOD
<b>Address Line 1:</b>	201 N. ILLINOIS ST., SUITE 1100
<b>Address Line 2:</b>	BRINKS GILSON & LIONE
<b>Address Line 4:</b>	INDIANAPOLIS, INDIANA 46204
<b>ATTORNEY DOCKET NUMBER:</b>	15448-750 (RCA11901USCON)
<b>NAME OF SUBMITTER:</b>	WESLEY N. KIRKWOOD
<b>SIGNATURE:</b>	/wnk/
<b>DATE SIGNED:</b>	09/25/2019
<b>Total Attachments: 4</b>	
source=15448_750_AssignforRecordal#page1.tif	

source=15448\_750\_AssignforRecordal#page2.tif

source=15448\_750\_AssignforRecordal#page3.tif

source=15448\_750\_AssignforRecordal#page4.tif

**ASSIGNMENT**

WHEREAS, Brett Barker, Bruce Varney, Brian Shoemaker, and Charles Bulgrin, the “Assignors”, have made the invention described in the United States patent application entitled **AIRFOIL LEADING EDGE COOLING CHANNELS**, for a full description of which reference is here made to an application for Letters Patent of the United States filed on July 31, 2017, and assigned Application Serial No. 15/664,996;

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

NOW, THEREFORE, in consideration of valuable and legally sufficient consideration, the receipt of which by the Assignors from the Assignee is acknowledged, the Assignors have sold, assigned and transferred, and by these presents sell, assign and transfer to the Assignee, the entire right, title and interest for the United States in the invention and the patent application identified above, and any patents that may issue for the invention in the United States; with the entire right, title and interest in the 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; with the entire right, title and interest in all continuations, divisions, renewals and extensions of any of the patent applications and patents defined above; 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 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 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 application 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 exclusive title in all such other patent applications and patents; and that the Assignors will execute and deliver to the Assignee all additional papers which may be requested by the Assignee to carry out the terms of this Assignment.

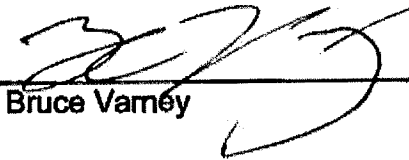
The Commissioner of Patents and Trademarks is authorized and requested to issue patents to the Assignee under the terms of this Assignment.

IN TESTIMONY WHEREOF, the Assignors have executed this agreement.

DATED: 8-18-2017

  
Brett Barker

DATED: 8/8/2017

  
Bruce Varnéy

DATED: \_\_\_\_\_

\_\_\_\_\_  
Brian Shoemaker

DATED: \_\_\_\_\_

\_\_\_\_\_  
Charles Bulgrin

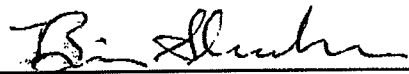
patent application identified above; in the making and prosecution of any other patent applications that the Assignee may elect to make covering the invention identified above; in vesting in the Assignee exclusive title in all such other patent applications and patents; and that the Assignors will execute and deliver to the Assignee 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 authorized and requested to issue patents to the Assignee under the terms of this Assignment.

IN TESTIMONY WHEREOF, the Assignors have executed this agreement.

DATED: \_\_\_\_\_ Brett Barker

DATED: \_\_\_\_\_ Bruce Varney

DATED: 08 AUG 2017   
Brian Shoemaker

DATED: \_\_\_\_\_ Charles Bulgrin

patent application 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 exclusive title in all such other patent applications and patents; and that the Assignors will execute and deliver to the Assignee 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 authorized and requested to issue patents to the Assignee under the terms of this Assignment.

IN TESTIMONY WHEREOF, the Assignors have executed this agreement.

DATED:

\_\_\_\_\_

\_\_\_\_\_  
Brett Barker

DATED:

\_\_\_\_\_

\_\_\_\_\_  
Bruce Varney

DATED:

\_\_\_\_\_

\_\_\_\_\_  
Brian Shoemaker

DATED:

9/14/2017

Charles Bulgrin  
Charles Bulgrin