## 505029475 07/31/2018

### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5076226

SUBMISSION TYPE: NATURE OF CONVEYANCE:		NEW ASSIGNMENT			
		ASSIGNMENT	ASSIGNMENT		
CONVEYING PART	Υ DATA				
		Name		Execution Date	
QUINLAN Y. SHUCK	(			06/08/2015	
RECEIVING PARTY	DATA				
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City:		INDIANAPOLIS			
State/Country:		INDIANA			
Postal Code:	46225-1	103			
PROPERTY NUMBE					
Property Type		Number			
Application Numbe	<b>r:</b> 1	6050934			
CORRESPONDENC		the empired address first if th	at is unsuccess		
	r, if provided; 6 p ne: S 1 V	the e-mail address first; if that if that is unsuccessful, it will 517351100 bairdocketing@ssiplaw.com 6HUMAKER & SIEFFERT P. A 625 RADIO DRIVE VOODBURY, UNITED STATES 1106-306US02/RCA1120	<i>II be sent via US</i> S 55125		
using a fax number Phone: Email: Correspondent Nan Address Line 1: Address Line 4:	<b>r, if provided;</b> 6 p ne: S 1 1 Υ <b>Γ NUMBER:</b>	<i>if that is unsuccessful, it will</i> 517351100 pairdocketing@ssiplaw.com 6HUMAKER & SIEFFERT P. A 625 RADIO DRIVE VOODBURY, UNITED STATES	<i>II be sent via US</i> S 55125		
using a fax number Phone: Email: Correspondent Nan Address Line 1: Address Line 4: ATTORNEY DOCKET	<b>r, if provided;</b> 6 p ne: S 1 1 Υ <b>Γ NUMBER:</b>	<b>if that is unsuccessful, it win</b> 517351100 pairdocketing@ssiplaw.com SHUMAKER & SIEFFERT P. A 625 RADIO DRIVE VOODBURY, UNITED STATES	<i>II be sent via US</i> S 55125		
using a fax number Phone: Email: Correspondent Nan Address Line 1: Address Line 4:	<b>r, if provided;</b> 6 p ne: S 1 1 Υ <b>Γ NUMBER:</b>	if that is unsuccessful, it will 517351100 pairdocketing@ssiplaw.com 6HUMAKER & SIEFFERT P. A 625 RADIO DRIVE VOODBURY, UNITED STATES 1106-306US02/RCA1120 NANCY J. BURR	<i>II be sent via US</i> S 55125		

# 503559644 11/07/2015

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3606271

SUBMISSION TYPE:		NEW ASSIGNMENT	NEW ASSIGNMENT		
NATURE OF CONVEYANCE:		ASSIGNMENT	ASSIGNMENT		
CONVEYING PARTY	DATA				
		Name		Execution Date	
UINLAN Y. SHUCK				06/08/2015	
ECEIVING PARTY	ΟΑΤΑ				
Name:	ROLLS-	ROLLS-ROYCE CORPORATION			
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City:	INDIAN	INDIANAPOLIS			
State/Country:	INDIAN	INDIANA			
Postal Code:	46225				
<i>using à fax number,</i> Email: Correspondent Name	l be sent to if provided t e: E	<i>the e-mail address first; if that i</i> ; <i>if that is unsuccessful, it will b</i> oslone@btlaw.com BARNES & THORNBURG LLP			
Address Line 1:	ess Line 1: 11 SOUTH MERIDIAN STREET ess Line 4: INDIANAPOLIS, INDIANA 46204				
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Address Line 4:	NUMBER:	27163-233754/RCA11206			
TTORNEY DOCKET		27163-233754/RCA11206 SAMUEL C. GIESTING			
TTORNEY DOCKET		SAMUEL C. GIESTING			

Attorney Docket No.: 27163-233754 Client Reference No.: RCA11206

#### ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged,

Name(s) of Inventor(s)	Quinlan Y. Shuck				
	maker(s) of an invention which is the subject of an application for Letters Patent of the United States ("Application") entitled				
Title of Application	COATED GAS TURBINE ENGINE COMPONENTS				
Serial No.: Filing Date:	<u>14/734.834</u> 06/09/2015				
	the undersigned (hereinalier "Assignors") hereby sell(s), assign(s), and set(s) over to				
Name of Assignee	Rolls-Royce Corporation				
Address of Assignee Business	450 S. Meridian Street				
Insert State of Incorporation (if applicable) or "Not Applicable"	a corporation of Delaware				

(hereinafter designated as the Assignce) their entire right, title, and interest in, to, and under the Application, any and all patent applications filed in the United States and in all other countries claiming priority to the Application, all inventions disclosed therein, and any and all Letters Patent of the United States and of all other countries that may be granted for such inventions, all rights in such Letters Patent to be held and enjoyed by Assignee for its own use and enjoyment to the full end of the term or terms for which such Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by Assignors had this assignment not been made.

The Assignors agree to execute any and all papers in connection with the Application, any and all patent applications filed in the United States and in all other countries claiming priority to the Application, and any Letters Patent issuing therefrom, and also to execute separate assignments as the Assignee may deem necessary or desirable.

The Assignors agree to execute any and all papers in connection with any litigation or any administrative proceeding concerning the Application, any and all patent applications filed in the United States and in all other countries claiming priority to the Application, or any Letters Patent issuing therefrom, and also to cooperate with the Assignee in every way possible in obtaining evidence and participating in any such litigation or proceeding.

The Assignors agree to execute any and all papers and to perform any and all acts which the Assignee may deem necessary or desirable in view of the provisions of the Patent Cooperation Treaty, the International Convention for Protection of Industrial Property, or similar agreements.

#### PATENT REEL: 046586 FRAME: 0862

The Assignors agree to perform any and all other acts which, in the opinion of Assignee, may be necessary or desirable to secure the grant of Letters Patent to Assignee or its nominees, in the United States and in all other countries where Assignee may desire patent protection, with specifications and claims in such form as shall be approved by Assignee, and to vest and confirm in Assignee or its nominees the full and complete legal and equitable title to all such Letters Patent.

The Assignors hereby covenant that they have the full right to convey the interests herein assigned, and that the Assignors have not executed, and will not execute, any agreement in conflict herewith.

The Assignors hereby grant the attorney of record 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 & Trademark Office for recordation of this document.

9 Jhurs

Date

Inventor (Signature)

Quintan Y. Shuck Investor (Printed Name)