#### 506894819 09/29/2021

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 EPAS ID: PAT6941641

Stylesheet Version v1.2

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
GRAEME E. RIGG	10/11/2019
TIMOTHY P. AGGAS	10/11/2019
DAVID MUNTON	10/11/2019

# **RECEIVING PARTY DATA**

Name:	ROLLS-ROYCE PLC	
Street Address: KINGS PLACE, 90 YORK WAY		
City:	LONDON	
State/Country:	GREAT BRITAIN	
Postal Code:	N1 9FX	

# **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	17034683

# CORRESPONDENCE DATA

Fax Number: (317)231-7433

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.

Phone: 13172317762

Email: hbehlmer@btlaw.com **Correspondent Name:** HEATHER BEHLMER

Address Line 1: BARNES & THORNBURG LLP (IN) Address Line 4: INDIANAPOLIS, INDIANA 46204

ATTORNEY DOCKET NUMBER:	57502-347866
NAME OF SUBMITTER:	SAMUEL C. GIESTING
SIGNATURE:	/SCG/
DATE SIGNED:	09/29/2021

# **Total Attachments: 4**

source=New\_17034683\_Asmt#page1.tif source=New\_17034683\_Asmt#page2.tif source=New\_17034683\_Asmt#page3.tif source=New\_17034683\_Asmt#page4.tif

> **PATENT REEL: 057632 FRAME: 0989** 506894819

# ASSIGNMENT (BEING FILED FOR DUAL PURPOSE UNDER 37 CFR 1.63(e)) For Application with Filing Date on or after September 16, 2012

# **ASSIGNMENT**

			RIGG, Graeme E			
(1-8)	Insert Legal Name(s)	) of	AGGAS, Timothy P			
	Inventor(s)		MUNTON, David			
	In consideration of the sum of sufficiency of which are hereby	one dolla y acknow	r (\$100) and other good and valuable consideration paid to each of the undersigned, the receipt an ledged, each undersigned agrees to assign, and hereby does assign, transfer and set over to	id		
(9)						
(10)	Insert Address of Assignee		Kings Place, 90 York Way, London N1 9FX, GB			
	for the United States of Americ	ca as defi livisional	and Assignee's heirs, successors, assigns and legal representatives, the entire right, title and interented in 35 U S C. §100, in the invention, and in all applications for patent including any and all continuation, international, confirmation, substitute and reissue application(s), and all Letters ination certificates that may be granted on the invention known as	st		
(11)	Insert Identification	(11)	Cleaning System and a Method of Cleaning			
` ,	such as Title, Case Number, or Foreign		7233 CSM			
	Application Number	(Attor	(Attorney Docket No.			
(12)	Alternative	(12)	U.S. Application Number			
()	Identification for	` '				
	filed applications	filed				
	<ol> <li>Each undersigned agrees to execute all papers necessary in connection with any application and/or pater for the invention and also to execute separate assignments in connection with such applications and patern as the Assignee may deem necessary.</li> <li>Each undersigned agrees to execute all papers necessary in connection with any interference which may be declared concerning any application or patents for the invention and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.</li> <li>Each undersigned agrees to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.</li> <li>Each undersigned agrees to perform all affirmative acts which may be necessary to obtain, maintain or confirm by reissue or reexamination a grant of a valid United States patent to the Assignee.</li> <li>Each undersigned authorizes and requests the Commissioner of the U.S. Patent and Trademark Office at other issuing authorities to issue any and all patents resulting from said application(s) to the said Assignee as Assignee of the entire interest, and covenants that he has full right to convey the entire interest herein assigned, and that he has not executed, and will not execute, any agreement(s) in conflict herewith, and agrees that this assignment is binding on Assignor and Assignor's heirs, successors, assigns and legal representatives.</li> <li>Each undersigned hereby grants the Assignee's agent 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 recordation of this document.</li> </ol>					

#### (13) Declaration

As an above named inventor, I hereby declare that:

I believe I am the original inventor or an original joint inventor of a claimed invention (or claimed design) in the above-identified application for which this declaration is being submitted.

The application was made or authorized to be made by me.

I have reviewed and understand the contents of the above-identified application, including the claims, and am aware of the duty to disclose to the Office all information known to me to be material to patentability as defined in 37 CFR \$1.56.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

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

Invent	or				. 1	
(Print	name)	RIGG, Gra	aeme F.			
Date	11th	October	2019	Inventor Signature	43hr	(SEAL)
Consi	This ass ul if outsid	ignment should ple the U.S.A. If	preferably b neither, the	e signed before: (a) n it should be signe	) a Notary Public if within the U.S.A. (b) a U d before at least two witnesses who also sign	l.S. i here:
Date	11 Th	CTOBEL	2019	Witness	meh	
Date	11+	OCTOBER	2019	Witness	Durler	

# (13) Declaration

As an above named inventor, I hereby declare that:

I believe I am the original inventor or an original joint inventor of a claimed invention (or claimed design) in the above-identified application for which this declaration is being submitted.

The application was made or authorized to be made by me.

I have reviewed and understand the contents of the above-identified application, including the claims, and am aware of the duty to disclose to the Office all information known to me to be material to patentability as defined in 37 CFR \$1.56.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

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

Invent	tor				
(Print	namc)	AGGAS, Timothy I	•	<i>11</i>	
Date	11th	000BER 2019	Inventor Signature	T. Hagel	(SEAL)
Cons	This as ul if outs	ssignment should preferably tide the U.S.A. If neither, the	be signed before: (a) en it should be signe	a Notary Public if within the U.S.A. d before at least two witnesses who a	(b) a U.S. Ilso sign here:
Date	110	KTOBER 2019	Witness	Mehr	
Date	11TH	OCTOBER 2019	Witness	Duller	

# (13) Declaration

As an above named inventor, I hereby declare that:

I believe I am the original inventor or an original joint inventor of a claimed invention (or claimed design) in the above-identified application for which this declaration is being submitted.

The application was made or authorized to be made by me.

I have reviewed and understand the contents of the above-identified application, including the claims, and am aware of the duty to disclose to the Office all information known to me to be material to patentability as defined in 37 CFR \$1.56.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

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

Invent	tor			A	
(Print	name) MUN	ron, David		$\Lambda I \Lambda \wedge$	
Date	11th october	2019	Inventor Signature	1)/4	(SEAL)
Cons	This assignment shoul if outside the U.S.A	ould preferably b L. If neither, the	e signed before: (a) n it should be signed	a Notary Public if within the U.S.A. (b) a U. before at least two witnesses who also sign	.S. here:
Date	11 DCTOBER	2019	Witness	Metholica	
	UTH OCTORE	P 7019		Aralles	

7233 CSM