#### 11/16/2015 503570759

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT3617386

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	

### **CONVEYING PARTY DATA**

Name	Execution Date
Peter SWANN	10/14/2015
Armin STRANJAK	10/13/2015

### **RECEIVING PARTY DATA**

Name:	ROLLS-ROYCE PLC	
Street Address:	62 BUCKINGHAM GATE	
City:	LONDON	
State/Country:	GREAT BRITAIN	
Postal Code:	SW1E 6AT	

### **PROPERTY NUMBERS Total: 1**

Property Type	Number	
Application Number:	14942104	

### CORRESPONDENCE DATA

Fax Number: (703)836-2787

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: 703-836-6400 Email: email@oliff.com **Correspondent Name:** JAMES A. OLIFF Address Line 1: OLIFF PLC

Address Line 2: P.O. BOX 320850

Address Line 4: ALEXANDRIA, VIRGINIA 22320-4850

ATTORNEY DOCKET NUMBER:	168666
NAME OF SUBMITTER:	ANNALYNN H. STEIN
SIGNATURE:	/Annalynn H. Stein/ for James A. Oliff
DATE SIGNED:	11/16/2015

### **Total Attachments: 4**

source=168666\_DecAssign#page1.tif source=168666 DecAssign#page2.tif source=168666\_DecAssign#page3.tif source=168666\_DecAssign#page4.tif

> **PATENT** REEL: 037048 FRAME: 0690 503570759

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

### ASSIGNMENT

	Insert	(1)	PETER SWANN	(2)	ARMIN STRANJAK
(1-8)	Legal Name(s)	(3)		(4)	
	of Inventor(s)	(5)		(6)	
		(7)	And the second s	(8)	
		the und		iency of which are I	r good and valuable consideration paid to each of hereby acknowledged, each undersigned agrees to
(9)	Insert Name of Assignee	(9)	ROLLS-ROYCE PLC		
(10)	Insert Address of Assignee	(10)	62 Buckingham Gate, Londo	n, SWIE 6AT, Gre	at Britain
		the ent inventi contin	ire right, title and interest for the ion, and in all applications for pa uation, international, confirmation	e United States of A atent including any on, substitute and re	eirs, successors, assigns and legal representatives, America as defined in 35 U.S.C. § 100, in the and all provisional, non-provisional, divisional, eissue application(s), and all Letters Patent, ay be granted on the invention known as
(11)	Insert Identification such as Title, Case	(11)	SYSTEM AND METHOD O	F ENERGY RESO	URCE DELIVERY
	Number, or Foreign		5673 LMT		
	Application Number	(Attor	ney Docket No.		)
(12)	Alternative Identification for	(12)	U.S. Application Number		
	filed applications	filed	< <application date="">&gt;</application>		

- 1) Each undersigned agrees to execute all papers necessary in connection with any application and/or patent for the invention and also to execute separate assignments in connection with such applications and patents as the Assignee may deem necessary.
- 2) 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.
- 3) 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.
- 4) 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.
- 5) Each undersigned authorizes and requests the Commissioner of the U.S. Patent and Trademark Office and 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.
- 6) Each undersigned hereby grants the firm of OLIFF PLC 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.

#### (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(s) opposite the undersigned name(s).

Date	14TH OCTOBER 2015	Inventor Signature	PETER SWANN Peter Swann	(SEAL)
Date		Inventor Signature	ARMIN STRANJAK	_ (SEAL)
Date		Inventor Signature		_ (SEAL)
Date		Inventor Signature	•	(SEAL)
neither	This assignment should preferably be signed , then it should be signed before at least two wi		olic if within the U.S.A. (b) a U.S. Consul if outside tere:	he U.S.A. II
Date	14TH OCTOBER ROIS	Witness for Peter Swann	K. Perce	
Date	14 OCTOBER 2015	Witness for Peter Swann	EDBell.	
Date		Witness for Armin Stranjak		<del>,</del>
Date		Witness for Armin Stranjak		

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

### ASSIGNMENT

	Insert	(1)	PETER SWANN	(2)	ARMIN STRANJAK	
(1-8)	Legal Name(s)	(3)		(4)		
	of Inventor(s)	(5)		(6)		
		(7)		(8)		
		the un		ciency of which are	er good and valuable consideration paid to each of hereby acknowledged, each undersigned agrees to	
(9)	Insert Name of Assignee	(9)	ROLLS-ROYCE PLC			
(10)	Insert Address of Assignee	(10)	62 Buckingham Gate, Lond	on, SWIE 6AT, Gr	eat Britain	
		the ent invent contin	tire right, title and interest for the ion, and in all applications for putation, international, confirmat	he United States of A patent including any tion, substitute and r	eirs, successors, assigns and legal representatives, America as defined in 35 U.S.C. § 100, in the and all provisional, non-provisional, divisional, eissue application(s), and all Letters Patent, ay be granted on the invention known as	
(11)	Insert Identification such as Title, Case	(11)	SYSTEM AND METHOD (	OF ENERGY RESC	OURCE DELIVERY	
	Number, or Foreign		5673 LMT			
	Application Number	(Attor	ney Docket No.			)
(12)	Alternative	(12)	U.S. Application Number			
	Identification for filed applications	filed	< <application date="">&gt;</application>	•		
						-

- 1) Each undersigned agrees to execute all papers necessary in connection with any application and/or patent for the invention and also to execute separate assignments in connection with such applications and patents as the Assignee may deem necessary.
- 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.
- 3) 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.
- 4) 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.
- 5) Each undersigned authorizes and requests the Commissioner of the U.S. Patent and Trademark Office and 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.
- 6) Each undersigned hereby grants the firm of OLIFF PLC 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.

### (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(s) opposite the undersigned name(s).

Date		Inventor Signature	PETER SWANN	(SEAL)
Date	13 OCTOJER 2015	Inventor Signature	ARMIN STRANJAK Song all	() (,(8 <del>E/19)</del>
Date		Inventor Signature		(SEAL)
Date		Inventor Signature		(SEAL)
neithe	This assignment should preferably be signed ber, then it should be signed before at least two with	реботе: (а) а Notary Pub nesses who also sign he	olic if within the U.S.A. (b) a U.S. Consul if outside the ore:	e U.S.A. If
Date		Witness for Peter Swann		·
Date		Witness for Peter Swann		· · · · · · · · · · · · · · · · · · ·
Date	13 October 2015	Witness for Armin Stranjak	Thomas Blum T	R
Date	13 October 2015	Witness for Armin Stranjak	Dr. Stephan Chart of	Jelle C