#### 504370002 05/16/2017

## PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

## **CONVEYING PARTY DATA**

Name	Execution Date
Timothy J SUMMERS	05/03/2017
David SAVINGS	05/08/2017

## **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:	15596687

## 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:	176647
NAME OF SUBMITTER:	JESSICA ABARCA
SIGNATURE:	/Jessica Abarca/
DATE SIGNED:	05/16/2017

## **Total Attachments: 6**

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

## ASSIGNMENT

(1-8)	Insert Legal Nume(s) of Inventor(s)		SUMMERS, Timothy I SAVINGS, David		
	In consideration of the sum of sufficiency of which are bereb	one dolla y acknow	or (\$1.00) and other good and valuable consideration paid to each of the undersigned, the receipt and velocity and undersigned agrees to assign, and hereby does assign, transfer and set over to	ž	
(9)	Insert Name of Assig	gnee	ROLLS-ROYCE pic		
(10)	Insert Address of Assignee		62 Buckingham Gate, London, SWIE 6AT, Great Britain		
	for the United States of Ameri provisional, non-provisional, a	ica as defi Jivisional	) and Assignee's heirs, successors, assigns and legal representatives, the entire right, title and interestined in 35 U.S.C. § 100. In the invention, and in all applications for patent including any and all to continuation, substitute and reissue application(s), and all Letters ination certificates that may be granted on the invention known as	}	
(11)	Insert Identification	(11)	Datum Positioning in Dies		
	such as Title, Case Number, or Foreign		6146 MRH	-	
	Application Number	(Attor	rney Docket No. <u>176647</u>	)	
(12)	Alternative Identification for	(12)	U.S. Application Number <u>15/596,687</u>		
	filed applications	filed	May 16, 2017		
	for the invention and a as the Assignee may do 2). Each undersigned ag be declared concerning every way possible in 3). Each undersigned ag necessary in connection industrial Property or 4). Each undersigned ag confirm by reissue or 5). Each undersigned as other issuing authoriting as Assignee of the ent assigned, and that he is agrees that this assign representatives.  6). Each undersigned he identification that may	also to a feem no grees to grany a obtaini grees to similar grees to reexam athorize es to iso ire intended in the feet greet y be neceivally and the feet grand of the feet g	execute all papers necessary in connection with any interference which may optication or patents for the invention and to cooperate with the Assignee in ing evidence and going forward with such interference, execute all papers and documents and perform any act which may be claims or provisions of the International Convention for Protection of	š	

Enventor

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.

(Print	name) SUMMERS, Timot	hy J		
Dute	30 May 2017.	Inventor Signat	<u>1944</u>	CCC (SEAL)
Cons	This assignment should preferably but if outside the U.S.A. If neither, the			
Date	3 May 2017	Witness	6342	T.Dube
Dute	30d May 2017	Witness	NA Career	D.A. CARNELL

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Inventor				
(Print name)	SAVINGS, David			
Date		Inventor Signature		(SEAL)
			a) a Notary Public if within the U ed before at least two witnesses w	
Date		Witness		
Date		Witness		

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

## ASSIGNMENT

(1-8)	Insert Legal Name(s	) of	SUMMERS, Timothy J		
(2~0)	Inventor(s)		SAVINGS, David		
			r (\$1.00) and other good and valuable consideration paid to each of the undersigned, the receipt a ledged, each undersigned agrees to assign, and bereby does assign, transfer and set over to	nd	
(9)	Insert Name of Assig	gnee	ROLLS-ROYCE ple		
(10)	Insert Address of As	signee	62 Buckingham Gate, London, SW1E 6AT, Great Britain		
(11)	for the United States of Ameri provisional, non-provisional, o Potent, extensions, reissues an Insert Identification	ca as defi livisional,	and Assignee's heirs, successors, assigns and legal representatives, the entire right, title and inter- ned 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  Datum Positioning in Dies	est	
	such as Title, Case Number, or Foreign		6146 MRH		
	Application Number	(Attor	ney Docket No. 176647	)	
(12)	Alternative	(12)	U.S. Application Number 15/596,687		
	Identification for				
	filed applications	filed	May 16, 2017		
	1014 Signification of the contract of the cont	61800	10, 2017		

- 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.
- 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.

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  $\S1.56$ .

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Inventor				
(Print name)	SUMMERS, Timot	hy J		
Date		Inventor Signature		(SEAL)
			a) a Notary Public if within the U.S.A. (b) a Ued before at least two witnesses who also sign	
Date		Witness		
Date		Witness		

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Invent	or			
(Print	<sub>name)</sub> SAVINGS, Dav	id		
Date	8th Nay 2017	Inventor Signature	<u> </u>	(SEAL)
Cons			a Notary Public if within the U.S./ I before at least two witnesses who	
Date	8th May 2017	Witness	XXX WTOIN	relide <u>e</u>
Date	8th May 2017	Witness	Little LUCIMO A	KCENTIER