504105880 11/21/2016

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4152549

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JAMES EMBERTON	11/09/2016
Alexis LAMBOURNE	11/15/2016
John J A CULLEN	11/16/2016

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:	15357647

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.

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:	173965
NAME OF SUBMITTER:	CYNTHIA KLINE
SIGNATURE:	/Cynthia Kline/
DATE SIGNED:	11/21/2016
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 9

504105880

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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

Invest Level Name(a) of

(1-8)	Inventor(s)	ij U L	EMBERTON, James; LAMBOURNE, Alexis; CULLEN, John J A		
	In consideration of the sum of sufficiency of which are hereb	one dolla y acknow	ar (\$1.00) and other good and valuable consideration paid to each of the undersigned, the receipt wledged, each undersigned agrees to assign, and hereby does assign, transfer and set over to	and	
(9)	Insert Name of Assig	gnee	ROLLS-ROYCE ple		
(10)	Insert Address of Assignee		62 Buckingham Gate, London, SW1E 6AT, Great Britain	****	
for the United States of America provisional, non-provisional, div Patent, extensions, reissues and Insert Identification		ica as defi livisional	and Assignee's heirs, successors, assigns and legal representatives, the entire right, title and interined in 35 U.S.C. §100, in the invention, and in all applications for patent including any and all location, international, confirmation, substitute and reissue application(s), and all Letters sination certificates that may be granted on the invention known as An Induction Motor Rotor and a Method of Manufacturing the Same	erest	
	such as Title, Case Number, or Foreign		6000 DEN	************	
	Application Number	(Attor	rney Docket No. 173965)	
(12)	Alternative Identification for	(12)	U.S. Application Number 15/357,647		

- 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 Assignce, 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 opposite the undersigned name.

Inventor				
(Print name) EMBERTON, Jan	nes		1	
Date 09-NOVEMBER-2016	Inventor Signature	30		(SEAL)
This assignment should preferably Consul if outside the U.S.A. If neither, the				
Date 09 November 2016	Witness	<u> Zj</u>	T. MELIA	1
Date <u>09 DOUEMBER 2016</u>	Witness	14	MATTHEW 1	loans.
Inventor				
(Print name) LAMBOURNE, A	Alexis			
Date	Inventor Signature			(SEAL)
This assignment should preferably Consul if outside the U.S.A. If neither, t				
Date	Witness			
Date	Witness			

Inventor		
(Print name)	CULLEN, John J A	
Date	Inventor Signature	(SEAL)
	signment should preferably be signed before: (a) a Notary Public if we do the U.S.A. If neither, then it should be signed before at least two	
Date	Witness	
Data	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 Inventor(s)) of	EMBERTON, James; LAMBOURNE, Alexis; CULLEN, John J A					
			ar (\$1.00) and other good and valuable consideration paid to each of the undersigned, the receipt a vledged, each undersigned agrees to assign, and hereby does assign, transfer and set over to	ınd				
(9)	Insert Name of Assig	nee	ROLLS-ROYCE plc	ROLLS-ROYCE plc				
(10)	Insert Address of As	signee	62 Buckingham Gate, London, SW1E 6AT, Great Britain					
for the United States of America as provisional, non-provisional, divisi Patent, extensions, reissues and ree (11) Insert Identification (I		ca as defi livisional,	and Assignee's heirs, successors, assigns and legal representatives, the entire right, title and interfined in 35 U.S.C. §100, in the invention, and in all applications for patent including any and all l, continuation, international, confirmation, substitute and reissue application(s), and all Letters sination certificates that may be granted on the invention known as An Induction Motor Rotor and a Method of Manufacturing the Same	est				
	such as Title, Case Number, or Foreign		6000 DEN					
	Application Number	(Attor	rney Docket No. 173965					
(12)	Alternative Identification for	(12)	U.S. Application Number 15/357,647					
	filed applications	filed	November 21, 2016					

- 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.

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

Invent	or					
Print	name)	EMBERTO	ON, James	\$		
Date				Inventor Signature		(SEAL)
Consi					a Notary Public if within the U.S.A. (b) d before at least two witnesses who also	
Date		•••••	······	Witness		
Date	***************************************		***************************************	Witness		
Invent (Print	name)	LAMBOU	RNE, Ale	exis		
Date	15 4	Jovense <u>k</u>	<u> 2016</u>	Inventor Signature		(SEAL)
Cons) a Notary Public if within the U.S.A. (bd before at least two witnesses who also	
Date	12 V	avenber	<u> 2016</u>	Witness	LALASTAIR SIM	
Date	<u>15 N</u>	ovember 7	0/6_	Witness	BA Ladish OR BAKE CONDUIT.	

Inventor				
(Print name)	CULLEN, John J A			
Date		Inventor Signature	 (SEAL)	
	signment should preferably to the U.S.A. If neither, the		thin the U.S.A. (b) a U.S. ritnesses who also sign here:	
Date		Witness		
Data		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)	Inventor(s)) B3	EMBERTON, James, LAMBOURNE, Ale	cis; CULLEN, John J A	
	In consideration of the sum of sufficiency of which are bereb	one dolla y actorov	r (\$1.00) and other good and valuable consideration past lodged, cash undersigned agrees to assign, and hereby d	to each of the undersigned, the receipt and ces assign, transfer and set over to	
(9)	Insert Name of Assig	guee	ROLLS-ROYCE plc		
(10)	Insert Address of As	signee	62 Buckingham Gate, London, SW1E 67	AT, Great Britain	
	for the United States of Ameri provisional, non-provisional, o	ca as defi Livisional	and Assignac's been, successors, assigns and legal repri- ced in 35 U.S.C. \$100, in the invention, and in all applica- communical, intermeteral, confirmation, substitute and mattern certificates that may be granted on the invention	ations for patent metoding any and all reissue application(s), and all Lotters	
(11)	Insert Identification such as Title, Case Number, or Foreign Application Number	(11)	An Induction Motor Roter and a Method of Manufacturing the Same		
			6000 DEN		
		(Atto	ney Docket No. 173965		
(12)	Alternative	(12)	U.S. Application Number 15/357,647		
	Identification for filed applications	filed	November 21, 2016		
	for the invention and as the Assignee may 6 2) Each undersigned as be declared concerning every way possible in	dso to leem no gees to g any a obtain	execute all papers necessary in connection execute separate assignments in connection cessary execute all papers necessary in connection pplication or patents for the invention and to no evidence and going forward with such in execute all naners and documents and perfe	with such applications and patents with any interference which may s cooperate with the Assignee in terference.	

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.

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I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.5 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.

Inventor		
(Print name) EMBE	RTON, James	
Date	Inventor Signature	(SEAL)
This assignment sho Consul if outside the U.S.A	uld preferably be signed before: (a) a Notary Public if w If neither, then it should be signed before at least two	rithin the U.S.A. (b) a U.S. witnesses who also sign here
Date	Witness	
Date	Witness	
Inventor		
(Print masse) LAMB	OURNE, Alexis	
Date	Inventor Signature	(SEAL)
This assignment sho Consul if outside the U.S.A	ould preferably be signed before: (a) a Notary Public if w . If neither, then it should be signed before at least two	ithin the U.S.A. (b) a U.S. witnesses who also sign here:
Date	Wittsess	
Date	Witness	

(Prist name)	CULLEN, John J A		Α,		
0ste <u>16</u>	November 2016	Inventor Signature	- 13ha	allen	(SEA
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	manifications morning to nonconcil o	e sikuen neinie (a) a		ammente cooke (o	ya cha
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