## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3932881

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
Geraint W JEWELL	05/12/2016
Ellis FH CHONG	05/12/2016
Maurice SHORTTE	05/12/2016

#### **RECEIVING PARTY DATA**

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Street Address:	62 Buckingham Gate	
City:	London	
State/Country:	Great Britain	
Postal Code:	SW1E 6AT	

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

Property Type	Number
Application Number:	15190717

#### **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.

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Address Line 4: ALEXANDRIA, VIRGINIA 22320-4850

ATTORNEY DOCKET NUMBER: 171744

NAME OF SUBMITTER: PAMELA BALLARD

SIGNATURE: /Pamela Ballard/
DATE SIGNED: 06/23/2016

#### **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 Name(s Inventor(s)	) of	Jewell, Geraint W; Chong, Ellis FH; Shortte, Maurice			
			(\$1.00) and other good and valuable consideration paid to each of the undersigned, the receipt and edged, each undersigned agrees to assign, and hereby does assign, transfer and set over to			
(9)	Insert Name of Assig	gnee	ROLLS-ROYCE plc			
(10)	Insert Address of As	ssignee	62 Buckingham Gate, Lor	adon, SV	W1E 6AT, Great Britain	
	for the United States of Ameri provisional, non-provisional, of	ca as defi livisional	ned in 35 U.S.C. §100, in the inventi-	on, and in ation, subs	egal representatives, the entire right, titl all applications for patent including any titute and reissue application(s), and all nvention known as	and all
(11)	Insert Identification	(11)	Electrical Machines			
	such as Title, Case Number, or Foreign		5881 JPH	***************************************	*1	
	Application		ney Docket No.		171744	)
(12)	Alternative	(12)	U.S. Application Number		15/190,717	
	Identification for		-		ayan garan da manaya ayan ayan ayan ayan da maraya ayan ayan ayan ayan da da da ayan ayan	
	filed applications	filed	jUNE	23,	2016	
	for the invention and as the Assignee may of 2) Each undersigned as be declared concerning every way possible in 3) Each undersigned as necessary in connection Industrial Property or 4) Each undersigned as confirm by reissue or 5) Each undersigned at other issuing authoritias Assignee of the entassigned, and that he agrees that this assign representatives. 6) Each undersigned he identification that may	also to eleem negrees to g any a obtainingrees to on with similar grees to reexamuthorize es to issuire intenhas not ment is ereby gry be necessarile.	execute separate assignments cessary.  execute all papers necessary pplication or patents for the ing evidence and going forwatexecute all papers and docur claims or provisions of the Inagreements.  perform all affirmative acts vination a grant of a valid Units and requests the Commissions and requests the Commissions and all patents resulting the standard patents and covenants that he has executed, and will not execute binding on Assignor and Assignor the firm of Oliff plc the	in conninvention and with ments an internation which meter State oner of ting from as full right, any a signor's power to complete to comp	d perform any act which may be considered for Protection any be necessary to obtain, main	nd patents hich may signee in be of ntain or Office and Assignee, t herein th, and legal

#### (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	cor.			
(Print	name) GERAINT WYN I	EWOLL		
Date	12m May 2016	Inventor Signature	. fromt Jewell (SE	EAL)
Const		•	a) a Notary Public if within the U.S.A. (b) a U.S. led before at least two witnesses who also sign he	
Date	12th May 2016	Witness	Spant	
Date	12m MAI 2016	Witness	1Q	

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			(\$1.00) and other good and valuable consideration paid to each of the undersigned, the receipt and edged, each undersigned agrees to assign, and hereby does assign, transfer and set over to		
(9)	Insert Name of Assi	gnee	ROLLS-ROYCE ptc		
(10)	Insert Address of As	ssignee	62 Buckingham Gate, London, SW1E 6AT, Great Britain		
	for the United States of Ameri provisional, non-provisional, t	ica as defi divisional	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, continuation, international, confirmation, substitute and reissue application(s), and all Letters ination certificates that may be granted on the invention known as	it	
(11)	Insert Identification	(11)	Electrical Machines		
	such as Title, Case Number, or Foreign		5881 JPH	_	
	Application Number		rney Docket No. 171744	)	
(12)	Alternative	(12)	U.S. Application Number 15/190,717		
	Identification for		7 02 0016		
	filed applications	filed	June 23, 2016		
	for the invention and as the Assignee may of 2) Each undersigned as be declared concerning every way possible in 3) Each undersigned as necessary in connecting landustrial Property or 4) Each undersigned as confirm by reissue or 5) Each undersigned as other issuing authoriting as Assignee of the entiassigned, and that he agrees that this assign representatives. 6) Each undersigned he identification that may	also to deem ne grees to gany a cobtaining rees to on with similar grees to reexamuthorize ies to is tire inte has not onent is ereby gry be ned	execute all papers necessary in connection with any interference which may application 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	s	

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

Invent	ior ELLIS	F. H. CHO.	NG			
(Print	name)			0/11/1	/ -a	
Date	12th May	2016	Inventor Signature	host to	ASY - Succession (S. Mills and Alberta May be a finished and an analysis of the succession of the succ	(SEAL)
Consi				) a Notary Public if with d before at least two wit		
Date	12th MA)	2016	Witness	guretti 1/20	ze (GARETH	E MOORE )
Date	12th May	2016	Witness	lisin Ren	C Lixin K	REN)

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					deration paid to each of the undersigne and hereby does assign, transfer and se	
(9)	Insert Name of Assig	gnee	ROLLS-ROYC	E plc		
(10)	0) Insert Address of Assignee		62 Buckinghan	n Gate, London,	SW1E 6AT, Great Britain	
	for the United States of Ameri	ca as defi livisional	ned in 35 U.S.C. §100, continuation, internation	in the invention, and onal, confirmation, s	nd legal representatives, the entire right in all applications for patent including ubstitute and reissue application(s), and the invention known as	any and all
(11)	Insert Identification	(11)	Electrical Machin	nes		
	such as Title, Case Number, or Foreign		5881 ЈРН	<del></del>		
Application		(Attor	ney Docket No.		171744	)
(12)	Alternative	(12)	U.S. Application	Number	15/190 <b>,</b> 717	
	Identification for					
	filed applications	filed		June 23,	2016	
	for the invention and as the Assignee may of 2) Each undersigned as be declared concernin every way possible in 3) Each undersigned as necessary in connectic Industrial Property or 4) Each undersigned as confirm by reissue or 5) Each undersigned at other issuing authoriti as Assignee of the ent assigned, and that he agrees that this assign representatives. 6) Each undersigned he	also to deem negrees to g any a obtaining rees to on with similar grees to reexam athorize es to issine internas not ment is ereby gry be necessary.	execute separate as reessary.  execute all papers pplication or paten ng evidence and gexecute all papers claims or provisio agreements.  perform all affirm ination a grant of a sand requests the sue any and all paterst, and covenants executed, and will binding on Assignants the firm of Occessary or desirable restary.	essignments in contents for the invention forward with and documents on the Internative acts which a valid United S. Commissioner of the the has full not execute, and nor and Assignor the power in order to come	and perform any act which mational Convention for Protection in may be necessary to obtain, in tates patent to the Assignee. Of the U.S. Patent and Tradema om said application(s) to the sairight to convey the entire interest agreement(s) in conflict here to heirs, successors, assigns are to insert on this assignment apply with the rules of the United	which may Assignee in ay be ion of naintain or ark Office and aid Assignee, rest herein with, and aid legal any further

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

Invent	or MAURICE SHORTTE	5	
(Print	name)		
Date	12/05/16	Inventor Signature	Alahan (SEAL)
Cons		•	a Notary Public if within the U.S.A. (b) a U.S. before at least two witnesses who also sign here:
Date	12th May 2016	Witness	Shrut
Data	12 May 2016	Witness	Keimoilkie