503589039 11/30/2015

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3635669

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Edward ADAMS	10/27/2015
Ellis Ful Hen CHONG	10/22/2015
Fermin MOLINER-CANTOS	10/23/2015

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:	14954320

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 JAMES A. OLIFF **Correspondent Name:** Address Line 1: **OLIFF PLC**

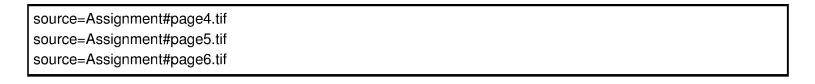
Address Line 2: P.O. BOX 320850

Address Line 4: ALEXANDRIA, VIRGINIA 22320-4850

ATTORNEY DOCKET NUMBER:	168816
NAME OF SUBMITTER:	JESSICA ABARCA
SIGNATURE:	/Jessica Abarca/
DATE SIGNED:	11/30/2015

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

	1819611	(1)	EDWARD ADVIS	144	CLUB FOR OK		
(1-8)	Legal Name(s)	(3)	FERMIN MOLINER-CANTOS	(4)			
	of Inventor(s)	(5)	4444444	(6)	•	***************************************	
		(7)	***************************************	(8)	***************************************		***************************************
		the unc	sideration of the sum of one dollur (S dersigned, the receipt and sufficiency and hereby does assign, transfer and	of which are f			•
(9)	lasert Name of Assignee	(9)	ROLLS-ROYCE PLC				
(10)	Insert Address of Assignee	(10)	62 Buckingham Gate, London, S'	WIE SAT, Gro	at Britain		***************************************
		the ent invent contin	nafter designated as the Assignee) an ire right, title and interest for the Un- ion, and in all applications for patent untion, international, confirmation, s- ions, relasues and reexamination cent	ited States of A including any ubstitute and re	merica as defined and all provisiona sissue application(l in 35 U.S.C. § I, non-provisies s), and all Lette	100, in the tal, divisional, rs Patent,
			The state of				
(11)	insert Identification such as Title. Case	(11)	ELECTRICAL MACHINES				
	Number, ar Foscign		5687 VJAY				
	Application Number	(Attor	ncy Docket No. 168816			***************************************	
(12)	Alternative	(12)	U.S. Application Number	14/954,3	320		
	identification for						
	filed applications	filed	November 30, 201	15			

- 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 Assigner and Assigner's heirs, successors, assigns and legal representatives.
- 6) Each undersigned hereby grams 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) Deciaration

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 amhorized to be made by me.

I have reviewed and understand the contents of the above-identified application, including the claims, and an 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. 1901 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 nume(s).

Date	<u> 27/ </u>	t hasbear	20/5	inventor Signature	EDWARD ADAMS Edward	SEAL)
Date		***************************************		inventor Signature	ELLIS FUL HEN CHONG	(SEAL)
Date				Inventor Signature	FERMIN MOLINER-CANTOS	(SEAL)
Date				Inventor Signature		(SEAL)
neither	This assignmen then it should be	n shouki p e signed be	referably be signe fore at least two	ed before: (a) a Notary Pe witnesses who also sign b	iblic if within the U.S.A. (b) a U.S. Consul if outside nere:	the U.S.A. If
Date	27 th 00	hober	2015	Witness for Edward Adoms	JOWATHAN FREMDE	>
Date	27 ¹ -0	Carl d	2015 <u> </u>	Witness for Edward Adams	wu san GE	PROV
Date				Witness for Ellis Ful Hen Chang		
Date				Witness for Eilis Ful Hon Chang		
Date		<u></u>		Witness for Formin Moliner- Cantos	······	
Date				Witness for Fermin Moliner- Cantos	•	

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

ASSIGNMENT

	ansere	(1)	EUWARU AUAMS) ELLIS FUL HEN CHUNG
(1-8)	Legal Name(s)	(3)	FERMIN MOLINER-CANTOS	(4	
	of Inventor(s)	(5)	***************************************	(6	}
		(7)	***************************************	(8)
		the un		scy of which a	ther good and valuable consideration paid to each of the beneby acknowledged, each undersigned agrees to
(9)	Insert Name of Assignee	(9)	ROLLS-ROYCE PLC		
(18)	Insert Address of Assignee	(10)	62 Buckingham Gate, London,	SWIE 6AT,	Great Britain
		the en invent contin	tire right, title and interest for the U ion, and in all applications for pate uation, international, confirmation	Inited States on int including a , substitute and	heirs, successors, assigns and legal representatives, f America as defined in 35 U.S.C. §100, in the ny and all provisional, non-provisional, divisional, f missue application(s), and all Letters Patent, may be granted on the invention known as
(11)	Insert Identification such as Title, Case	(11)	ELECTRICAL MACHINES		
	Number, or Foreign		5687 VJAY	***************************************	
	Application Number	(Atto	mey Dockei No. 168816		· · · · · · · · · · · · · · · · · · ·
(12)	Alternative	(12)	U.S. Application Number	14/95	4,320
	filed applications	filed	N	015	
	com a september of the second	33100	November 30-2	1117	

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- 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 hinding on Assignor and Assignor's heirs, successors, assigns and legal representatives.
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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 whereaf, executed by the undersigned on the date(s) apposite the undersigned name(s).

Date	WWW	Inventor Signature	EDWARD ADAMS	(SEAL)
Date	22nd October 2015	Inventor Signature	ELLIS FUL HEN CHONG CHOPLED	∜ (SEAL)
Date			FERMIN MOLINER CANTOS	
Date		Inventor Signature		(SEAL)
neither	This assignment should preferably be sign , then it should be signed before at least two	ted before: (a) a Notary Pul witnesses who also sign b	olic if within the U.S.A. (b) a U.S. Consul if autside tree	the U.S.A., I
Date	***************************************	Witness for Edward Adoms		***************************************
Date		Witness for Edward Adams		
Date -	2 <u>2nd Octobor 2015</u>	Witness for Ellis Ful Hen Chong	ZHILANG SUN STYGO	<u> Sim</u>
Dute	22nd October Zois	Witness for Ellis Ful Hen Chong	RIONA SMITHAM RANGLA	<u>~</u>
Date		Witness for Fermin Moliner- Cantos		***************************************
X)man		Witness for Fermin Moliner-		

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

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	Insert	(1)	EDWARD ADAMS	(2)	ELLIS FUL HEN CHONG	
(1-8)	Legal Name(s)	(3)	FERMIN MOLINER-CANTO	S (4)		
	of Inventor(s)	(5)		(6)		
		(7)		(8)		
		the un		ency of which are I	r good and valuable consideration paid to each of screby acknowledged, each undersigned agrees to	
(9)	Insert Name of Assignee	(9)	ROLLS-ROYCE PLC			
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		the ent invent contin	tire right, title and interest for the ion, and in all applications for pat uation, international, confirmation	United States of A ent including any a, substitute and re	oirs, successors, assigns and legal representatives, merica as defined in 35 U.S.C. § 100, in the and all provisional, non-provisional, divisional, issue application(s), and all Letters Patent, by be granted on the invention known as	,
(II)	Insert Identification such as Title, Case	(11)	ELECTRICAL MACHINES			
	Number, or Foreign		5687 VJAY			
	Application Number	(Attor	ney Docket No. 168816)
(12)	Alternative	(12)	U.S. Application Number	14/954,3	20	
	filed applications	filed	November 30, 20)15		

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

Date		Inventor Signature	EDWARD ADAMS	(SEAL)
Date		Inventor Signature	ELLIS FUL HEN CHONG	(SEAL)
Date	<u>23 03686 8 2015</u>	Inventor Signature	FERMIN MOLINER-CANTOS	(SEAL)
Date		Inventor Signature		(SEAL)
neither	This assignment should preferably be signed, then it should be signed before at least two w	d before: (a) a Notary Pui itnesses who also sign h	blic if within the U.S.A. (b) a U.S. Consul if out ere:	side the U.S.A. If
Date		Witness for Edward Adams	,	***************************************
Date		Witness for Edward Adams		
Date		Witness for Ellis Ful Hen Chong		
Date		Witness for Ellis Ful Hen Chong		
Daté	<u>23 older 2015</u>	Witness for Fermin Moliner- Cantos	Stian Manger Stian 1908	
Date	23 colober 2015	Witness for Fermin Moliner- Cantos	Sverke Kungsta. Same Umgo 4	