503416384 07/30/2015

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3463018

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Ajith APPUKUTTAN	07/14/2015
Benjamin KEELER	07/14/2015
Paolo VANACORE	07/15/2015

RECEIVING PARTY DATA

Name:	Rolls-Royce PLC
Street Address:	62 Buckingham Gate
City:	London
State/Country:	Great Britain
Postal Code:	SW1E 6 AT

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14813755

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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Correspondent Name: JAMES A. OLIFF
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ATTORNEY DOCKET NUMBER:	167254
NAME OF SUBMITTER:	RYAN GUNNING
SIGNATURE:	/Ryan Gunning/
DATE SIGNED:	07/30/2015

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PATENT REEL: 036218 FRAME: 0903

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)	Ajith Appukuttan	(2)	Benjamin Kecier	
Legal Name(s)	(3)	Paolo Vanacore	(4)		
of Inventor(s)	(5)		(6)		
	(7)		(8)		
	the un	dersigned, the receipt and suffic	iency of which are I	r good and valuable consideration paid to each of tereby acknowledged, each undersigned agrees to	ı
Insert Name of Assignce	(9)	ROLLS-ROYCE PLC			
Insert Address of Assignee	(10)	62 Buckingham Gate, Londo	on, SW1E 6AT, Gro	eat Britain	
	the en invent contin	tire right, title and interest for th ion, and in all applications for p uation, international, confirmati	e United States of A atent including any on, substitute and re	merica as defined in 35 U.S.C. §100, in the and all provisional, non-provisional, divisional, sissue application(s), and all Letters Patent,	
Insert Identification	(11)	Gas Turbine Engine Anti-Icia	ng System		
Such as Title, Case Number, or Forcign Application Number		5548 JNR			
	(Atto	rney Docket No. 167254)
Alternative Identification for	(12)	U.S. Application Number	14/81	3,755	_
filed applications	filed		July 30, 2015	5	
	Insert Name of Assignee Insert Address of Assignee Insert Identification such as Title, Case Number, or Forcign Application Number Alternative Identification for	Legal Name(s) (3) of Inventor(s) (5) (7) In conthe um assign Insert Name of Assignce (9) Insert Address of Assignce (heroin the en invent contine extens Insert Identification such as Title, Case Number, or Foreign Application Number (Atto Alternative (12) Identification for	Legal Name(s) of Inventor(s) (5) (7) In consideration of the sum of one dol the undersigned, the receipt and suffic assign, and hereby does assign, transfer assign, and hereby does assign, transfer Assignee Insert Address of Assignee (10) (10) (10) (10) (10) (11) (11) (12) (13) (14) (15) (15) (17) In consideration of the sum of one dol the undersigned, the receipt and suffic assign, and hereby does assign, transfer design. (10) (11) (12) (13) (13) (14) (14) (15) (15) (16) (17) (18) (18) (19) (10) (10) (10) (11) (11) (12) (13) (14) (14) (15) (15) (15) (16) (17) (18) (18) (19) (10) (10) (11) (11) (12) (13) (14) (15) (15) (15) (16) (17) (18) (18) (19) (19) (10) (10) (11) (11) (12) (13) (14) (15) (15) (15) (16) (17) (18) (18) (18) (19) (19) (10) (10) (11) (11) (12) (12) (13) (14) (15) (15) (16) (17) (17) (18) (18) (18) (19) (19) (10) (10) (11) (11) (12) (13) (14) (15) (15) (16) (17) (17) (18) (18) (18) (19) (19) (10) (10) (11) (11) (12) (12) (13) (14) (15) (15) (16) (17) (17) (18) (18) (18) (19) (19) (19) (10) (10) (11) (11) (12) (12) (13) (14) (15) (15) (16) (17) (17) (18) (18) (18) (18) (18) (18) (18) (19	Legal Name(s) of Inventor(s) (5) (7) In consideration of the sum of one dollar (\$1.00) and othe the undersigned, the receipt and sufficiency of which are I assign, and hereby does assign, transfer and set over to Insert Name of Assignee Insert Address of Assignee (9) ROLLS-ROYCE PLC (10) 62 Buckingham Gate, London, SWIE 6AT, Gree (hereinafter designated as the Assignee's hereinafter right, title and interest for the United States of A invention, and in all applications for patent including any continuation, international, confirmation, substitute and reextensions, reissues and reexamination certificates that makes the state of the invention of the sum of one dollar (\$1.00) and othe the undersigned, the receipt and sufficiency of which are I assign, and hereby does assign, transfer and set over to (9) ROLLS-ROYCE PLC (10) 62 Buckingham Gate, London, SWIE 6AT, Gree (hereinafter designated as the Assignee's here the entire right, title and interest for the United States of A invention, and in all applications for patent including any continuation, international, confirmation, substitute and reextensions, reissues and reexamination certificates that makes are supplied to the property of the patents of the p	Legal Name(s) (3) Paolo Vanacore (4) (6) (7) (8) In consideration of the sum of one dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned, the receipt and sufficiency of which are hereby acknowledged, each undersigned agrees to assign, and hereby does assign, transfer and set over to Insert Name of Assignee Insert Address of Assignee (9) ROLLS-ROYCE PLC (10) 62 Buckingham Gate, London, SW1E 6AT, Great Britain (hereinafter designated as the Assignee) and Assignee's heirs, successors, assigns and legal representatives, the entire right, title and interest for the United States of America as defined in 35 U.S.C. §100, in the invention, and in all applications for patent including any and all provisional, non-provisional, continuation, international, confirmation, substitute and reissue application(s), and all Letters Patent, extensions, reissues and reexamination certificates that may be granted on the invention known as Insert Identification such as Title, Case Number, or Foreign Application Number (11) Gas Turbine Engine Anti-leing System (12) U.S. Application Number (13) U.S. Application Number 14/813,755

- 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.

Date	14th JULY 2015		Must	(SEAL)
Date		Inventor Signature	Benjamin Keeler	(SEAL)
Date		Inventor Signature	Paolo Vanacore	(SEAL)
Date		Inventor Signature		(\$EAL)
Date		Inventor Signature		(SEAL)
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Date		Inventor Signature		(SEAL)
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Date	14th July 2015	Witness for Ajith Appukuttan	Helanokie!	
	14TH JULY 2015	Witness for A lith	Mak-Ditty	
Date	had-advanta-anna anna anna anna anna anna anna	Witness for Benjamin Keeler		
Date		Witness for Benjamin Keeler		
Date		Witness for Paolo Vanacore		
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Date	+BWH+49H	Witness for		
Date	in the control of the	Witness for		

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

Date		Inventor Signuture	Ajith Appukunan	(SEAL)
Dute	14 th July 2015	Inventor Signuture	Benjamin Keeler Bleeber	(SEAL)
Date		Inventor Signature	Paolo Vanocore	(SEAL)
Date		Inventor Signature		(SEAL)
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Date		Inventor Signature		_ (SEAL)
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	ssignment should preferably be signed before: (a should be signed before at least two witnesses w		thin the U.S.A. (b) a U.S. Consult if outside the U.S.A.	If neither.
Date		Witness for Ajith Appukuttan		AND CONTROL OF THE PARTY OF THE
Date		Witness for Ajith Appukuttan	anamir omno inin kalandada da Santa da Kalandada ka Espaka Hasan Sayar yayan ka maksa pepaka maksan ka kenada k	Andrews
Date	14 Suy los	Witness for Benjamin Keeler	Langell	
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In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date		Inventor Signature	Ajith Appukuttan	(SEAL)
Date		Inventor Signature	Benjamin Keeler	(SEAL)
Date	15 JULY 2015	Inventor Signature	Paolo Vanacore Folo Varian	(SEAL)
Date	WAAAMAA MAAAA AAAA AAAAA AAAAA AAAAA AAAAA AAAAA AAAA	Inventor Signature		(SEAL)
Date		Inventor Signature		(SEAL)
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Date		Inventor Signature		(SEAL)
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Date		Witness for Ajith Appukuttan		
Date		Witness for Ajith Appukuttan		
Date		Witness for Benjamin Keeler		
Date		Witness for Benjamin Keeler		
Date	45 JULY 2015	Witness for Paolo Vanacore	Andrea Milli Am h. M.	
Date	15 2017 SO12	Witness for Paolo Vanacore	Jose Maria Rey Villazon	
Date		Witness for		-
Date	**************************************	Witness for		