503476179 09/11/2015

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3522804

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Richard ANDREOU	08/21/2015
Wee Kin TEO	08/21/2015
Arthur WEE	08/21/2015

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:	14851903

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:	167804
NAME OF SUBMITTER:	MYIA WILLIAMS
SIGNATURE:	/Myia Williams/
DATE SIGNED:	09/11/2015

Total Attachments: 4

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> **PATENT** REEL: 036545 FRAME: 0651 503476179

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PATENT REEL: 036545 FRAME: 0652

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)	Richard ANDREOU	(2)	Wee Kin TEO	
(1-8)	Legal Name(s)	(3)	Arthur WEE	(4)		
	of Inventor(s)	(5)		(6)		
		(7)		(8)		
		the un	sideration of the sum of one dolla dersigned, the receipt and sufficie , and hereby does assign, transfer	ncy of which are I	r good and valuable consideration paid to each of nereby acknowledged, each undersigned agrees to	
(9)	Insert Name of Assignce	(9)	ROLLS-ROYCE PLC			
(10)	Insert Address of Assignee	(10)	62 Buckingham Gate, London, SWIE 6AT, Great Britain			
		the en invent contin	tire right, title and interest for the tion, and in all applications for pat mation, international, confirmation	United States of A ent including any n, substitute and re	sirs, successors, assigns and legal representatives, truerica as defined in 35 U.S.C. §100, in the and all provisional, non-provisional, divisional, eissue application(s), and all Letters Patent, ay be granted on the invention known as	
such as Title, Ca Number, or Fore	Insert Identification such as Title, Case	(11)	Abrasive Processing Method			
	Application Number	(Atto	rney Docket No.)	
(12)	Alternative	(12)	U.S. Application Number			
	Identification for					
	filed applications	filed				

- 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 Assignce 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.

Declaration (13)

As an above named inventor, I hereby declare that

Thelieve 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(s) apposite the undersigned name(s).

Date	21/08/2015	Inventor Signature	RICHARD ANDREOU R-AWOURE	SEAL)
Date		Inventor Signature	Wee Kin TEO	(SEAL)
Date		Inventor Signature	Arthur WEE	(SEAL)
Date		Inventor Signature		(SEAL)
Date		Inventor Signature		(SEAL)
Date		Inventor Signature		(SEAL)
Date		Inventor Signature		(SEAL)
Date		Inventor Signature		(SEAL)
neithei	This assignment should preferably be sig , then it should be signed before at least tw	ned before: (a) a Notary Pul o witnesses who also sign h	1 12	ie U.S.A. If
Date	21 Aug 2015	Witness	for Richard ANDREOU	
Date	21 Ayust 15	Witness	for Richard ANDREOU	Livars
Date		Witness	for Wee Kin TEO	· · · · · · · · · · · · · · · · · · ·
Date		Witness	for Wee Kin TEO	
Date		Witness	for Arthur WEE	***************************************
Date		Witness	for Arthur WEE	

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)	Richard ANDREOU	(2)	Wee Kin TEO	
(1-8)	Legal Name(s)	(3)	Arthur WEE	(4)		
	of Inventor(s)	(5)		(6)		
		(7)		(8)		
		the un-		ncy of which are l	r good and valuable consideration paid to each o tereby acknowledged, each undersigned agrees to	
(9)	Insert Name of Assignee	(9)	ROLLS-ROYCE PLC			
(10)	Insert Address of Assignee	(10)	62 Buckingham Gate, London,	SW1E 6AT, Gro	at Britain	
		the ent invent contin	tire right, title and interest for the lion, and in all applications for pate uation, international, confirmation	United States of A ent including any I, substitute and re	cirs, 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	•
(11)	Insert Identification such as Title, Case Number, or Foreign Application Number	(11)	Abrasive Processing Method			
		(Attor	ney Docket No.)
(12)	Alternative	(12) U.S. Application Number				
	Identification for					
	filed applications	filed				

- 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.
- 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.

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

Date		Inventor Signature	Richard ANDREOU	(SEAL)
Date	2187 August 2015	Inventor Signature	Wee Kin TEO	(SEAL)
Date	2189 August 2015	Inventor Signature	Arthur WEE	(SEAL)
Date		Inventor Signature		(SEAL)
Date		Inventor Signature		(SEAL)
Date		Inventor Signature		(SEAL)
Date		Inventor Signature		(SEAL)
Date		Inventor Signature		(SEAL)
neither,	This assignment should preferably be signed then it should be signed before at least two with	before: (a) a Notary Pu tnesses who also sign h	blic if within the U.S.A. (b) a U.S. Consul if outside the ere;	U.S.A. I
Date		Witness	for Richard ANDREOU	
Date		Witness	for Richard ANDREOU	· · · · · · · · · · · · · · · · · · ·
Date	21 st August 2015	Witness	for Wee Kin TEO	
Date C	21st August 2015	Witness	for Wee Kin TEO	
Date	21st August 2015	Witness	for Arthur WEE	
Date	21st August 2015-	Witness	for Arthur WEE	

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