503598193 12/05/2015 PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:		NEW ASSIGNMENT			
NATURE OF CONVEYANCE:		ASSIGNMENT			
			Name		Execution Date
ADAM L. CHAMBERL	AIN				02/26/2014
KANG LEE					02/07/2014
ANDREW J. LAZUR 10/29/2015				10/29/2015	
RECEIVING PARTY	ΟΑΤΑ				
Name:	ROLLS	ROLLS-ROYCE CORPORATION			
Street Address:	450 S.	MER	IDIAN STREET		
City:	INDIA	NAPO	LIS		
State/Country:	INDIA	NA			
Postal Code:	46225				
Property Type Application Number: 1414		1414	Number 3724	-	
Application Number: 1414		1414	3724		
CORRESPONDENCE	DATA				
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ATTORNEY DOCKET NUMBER:			27163-226650/RCA10958		
NAME OF SUBMITTER:			SAMUEL C. GIESTING		
SIGNATURE:		/scg/			
DATE SIGNED:			12/05/2015		
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source=Assignment_Chamberlain#page2.tif source=Lazur_Assignment#page1.tif					

ASSIGNMENT TO BUSINESS CONCERN

Attorney Docket No.: 27163-226650 Client Reference No.: RCA10958

ASSIGNMENT

	For good and valuable consideration, the receipt of which is hereby acknowledged,					
Name(s) of Inventor(s)	Kang N. Lee					
	maker(s) of an invention which is the subject of an application for Letters Patent of the United States ("Application") entitled					
Title of Application	SILICON CARBIDE CERAMIC MATRIX COMPOSITES					
Serial No.: Filing Date:	<u>14/143,724</u> 12-30-13					
	the undersigned (hereinafter "Assignors") hereby sell(s), assign(s), and set(s) over to					
Name of Assignee	Rolls-Royce Corporation					
Address of Assignee	450 S. Meridian Street					
Business	Indianapolis, Indiana 46225					
Insert State of Incorporation (if applicable) or "Not Applicable"	a corporation of Delaware					

(hereinafter designated as the Assignee) their entire right, title, and interest in, to, and under the Application, any and all patent applications filed in the United States and in all other countries claiming priority to the Application, all inventions disclosed therein, and any and all Letters Patent of the United States and of all other countries that may be granted for such inventions, all rights in such Letters Patent to be held and enjoyed by Assignee for its own use and enjoyment to the full end of the term or terms for which such Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by Assignors had this assignment not been made.

The Assignors agree to execute any and all papers in connection with the Application, any and all patent applications filed in the United States and in all other countries claiming priority to the Application, and any Letters Patent issuing therefrom, and also to execute separate assignments as the Assignee may deem necessary or desirable.

The Assignors agree to execute any and all papers in connection with any litigation or any administrative proceeding concerning the Application, any and all patent applications filed in the United States and in all other countries claiming priority to the Application, or any Letters Patent issuing therefrom, and also to cooperate with the Assignee in every way possible in obtaining evidence and participating in any such litigation or proceeding.

The Assignors agree to execute any and all papers and to perform any and all acts which the Assignee may deem necessary or desirable in view of the provisions of the Patent Cooperation Treaty, the International Convention for Protection of Industrial Property, or similar agreements.

The Assignors agree to perform any and all other acts which, in the opinion of Assignee, may be necessary or desirable to secure the grant of Letters Patent to Assignee or its nominees, in the United States and in all other countries where Assignee may desire patent protection, with specifications and claims in such form as shall be approved by Assignee, and to vest and confirm in Assignee or its nominees the full and complete legal and equitable title to all such Letters Patent.

The Assignors hereby covenant that they have the full right to convey the interests herein assigned, and that the Assignors have not executed, and will not execute, any agreement in conflict herewith.

The Assignors hereby grant the attorney of record the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent & Trademark Office for recordation of this document.

IN WITNESS WH	HEREOF, I have executed the	nis assignment at	ndionapolis, Indi	
this 7th	day of Februar	~ <u>a014</u>	(city and state or	country if outside USA)
Outside the USA:			Kangnt	لعب
Witnesses are required when acknowledgment	Witness		Inventor (Signature)	
before a Notary			Kang N. Lee	
Public is not feasible.	Witness		Inventor (Printed Na	me)
	marion	ACKNOWLEI SS:	DGMENT	
Acknowl this _7	ledged before me, Notary day of	Public, within and for sa	id County and State. Witness m <u>9/4</u> .	ny hand and Notarial Seal
My Commission I	Expires: 8 June	.2016	Notary Public Notary Public Printed Name Resident of More	med B Sones on County
90 100 100 100 100 100 100 100 100 100 1	JOYE B. JONES Marion County My Commission Expires			

INDS02 BJARMAN 1303376v1

June 8, 2016

Attorney Docket No.: <u>27163-226650</u> Client Reference No.: <u>RCA10958</u>

ASSIGNMENT

	For good and valuable consideration, the receipt of which is hereby acknowledged,
Name(s) of Inventor(s)	Adam L. Chamberlain
	maker(s) of an invention which is the subject of an application for Letters Patent of the United States ("Application") entitled
Title of Application	SILICON CARBIDE CERAMIC MATRIX COMPOSITES
Serial No.: Filing Date:	<u>14/143,724</u> 12-30-13
	the undersigned (hereinafter "Assignors") hereby sell(s), assign(s), and set(s) over to
Name of Assignee	Rolls-Royce Corporation
Address of Assignee	450 S. Meridian Street
Business	Indíanapolis. Indiana 46225
Insert State of Incorporation (if applicable) or "Not Applicable"	a corporation of Delaware

(hereinafter designated as the Assignee) their entire right, title, and interest in, to, and under the Application, any and all patent applications filed in the United States and in all other countries claiming priority to the Application, all inventions disclosed therein, and any and all Letters Patent of the United States and of all other countries that may be granted for such inventions, all rights in such Letters Patent to be held and enjoyed by Assignee for its own use and enjoyment to the full end of the term or terms for which such Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by Assignors had this assignment not been made.

The Assignors agree to execute any and all papers in connection with the Application, any and all patent applications filed in the United States and in all other countries claiming priority to the Application, and any Letters Patent issuing therefrom, and also to execute separate assignments as the Assignee may deem necessary or desirable.

The Assignors agree to execute any and all papers in connection with any litigation or any administrative proceeding concerning the Application, any and all patent applications filed in the United States and in all other countries claiming priority to the Application, or any Letters Patent issuing therefrom, and also to cooperate with the Assignee in every way possible in obtaining evidence and participating in any such litigation or proceeding.

The Assignors agree to execute any and all papers and to perform any and all acts which the Assignee may deem necessary or desirable in view of the provisions of the Patent Cooperation Treaty, the International Convention for Protection of Industrial Property, or similar agreements.

The Assigners agree to perform any and all other acts which, in the opinion of Assignee, may be necessary or desirable to secure the grant of Letters Patent to Assignee or its nominees, in the United States and in all other countries where Assignee may desire patent protection, with specifications and claims in such form as shall be approved by Assignee, and to vest and confirm in Assignee or its nominees the full and complete legal and equitable title to all such Letters Patent.

The Assignors hereby covenant that they have the full right to convey the interests herein assigned, and that the Assignors have not executed, and will not execute, any agreement in conflict herewith.

The Assignors hereby grant the attorney of record the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent & Trademark Office for recordation of this document.

IN WITNESS WHEREOF, I have executed this assignment at	Indianapolis, IN
this 26 day of February 2014	¹ (city and state or country if outside USA)
Outside the USA:	<u>Idam L. Clambulain</u> Inventor (Signature)
required when acknowledgment before a Notary Public is not Witness feasible.	Adam L. Chamberlain Inventor (Printed Name)
	LEDGMENT
STATE OF Indiana } ss:	
COUNTY OF Proton }	
	or said County and State: Withess my hand and Notarial Scal
	Giccoer Cery Printed Name
My Commission Expires: <u>OB-2D-2020</u>	Resident of <u>Hears Irickis</u> County



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ASSIGNMENT TO BUSINESS CONCERN

Attorney Docket No.: 27163-226650 Client Reference No.: RCA10958

ASSIGNMENT

	For good and valuable consideration, the receipt of which is hereby acknowledged,
Name(s) of Inventor(s)	Andrew J. Lazur
	maker(s) of an invention which is the subject of an application for Letters Patent of the United States ("Application") entitled
Title of Application	SILICON CARBIDE CERAMIC MATRIX COMPOSITES
Serial No.: Filing Date:	<u>14/143,724</u> 12-30-13
	the undersigned (hereinafter "Assignors") hereby sell(s), assign(s), and set(s) over to
Name of Assignee	Rolls-Royce Corporation
Address of Assignee	450 S. Meridian Street
Business	Indianapolis, Indiana 46225
Insert State of Incorporation (if applicable) or "Not Applicable"	a corporation of Delaware

(hereinafter designated as the Assignee) their entire right, title, and interest in, to, and under the Application, any and all patent applications filed in the United States and in all other countries claiming priority to the Application, all inventions disclosed therein, and any and all Letters Patent of the United States and of all other countries that may be granted for such inventions, all rights in such Letters Patent to be held and enjoyed by Assignee for its own use and enjoyment to the full end of the term or terms for which such Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by Assignors had this assignment not been made.

The Assignors agree to execute any and all papers in connection with the Application, any and all patent applications filed in the United States and in all other countries claiming priority to the Application, and any Letters Patent issuing therefrom, and also to execute separate assignments as the Assignee may deem necessary or desirable.

The Assignors agree to execute any and all papers in connection with any litigation or any administrative proceeding concerning the Application, any and all patent applications filed in the United States and in all other countries claiming priority to the Application, or any Letters Patent issuing therefrom, and also to cooperate with the Assignee in every way possible in obtaining evidence and participating in any such litigation or proceeding.

The Assignors agree to execute any and all papers and to perform any and all acts which the Assignee may deem necessary or desirable in view of the provisions of the Patent Cooperation Treaty, the International Convention for Protection of Industrial Property, or similar agreements.

The Assignors agree to perform any and all other acts which, in the opinion of Assignee, may be necessary or desirable to secure the grant of Letters Patent to Assignee or its nominees, in the United States and in all other countries where Assignee may desire patent protection, with specifications and claims in such form as shall be approved by Assignee, and to vest and confirm in Assignee or its nominees the full and complete legal and equitable title to all such Letters Patent.

The Assignors hereby covenant that they have the full right to convey the interests herein assigned, and that the Assignors have not executed, and will not execute, any agreement in conflict herewith.

The Assignors hereby grant the attorney of record the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent & Trademark Office for recordation of this document.

	IEREOF, I have executed day of <u>October</u>	this assignment at _	Indianapolis, IN (city and state or country if outside USA)
	Witness	,	Inventor (Signature) Andrew J. Lazur
Public is not feasible.	Witness		Inventor (Printed Name)
		ACKNO	DWLEDGMENT
STATE OF COUNTY OF	} }	SS:	
	edged before me, a Notary day of		d for said County and State. Witness my hand and Notarial Sea .,
			Notary Public
			Printed Name

My Commission Expires:_____

Resident of _____ County

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RECORDED: 12/05/2015

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