507686620 01/10/2023

PATENT ASSIGNMENT COVER SHEET

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 SUBMISSION TYPE:
 NEW ASSIGNMENT

 NATURE OF CONVEYANCE:
 ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MICHAEL J. WHITTLE	11/02/2021
ANDREW T. HOLT	11/01/2021
RODERICK M. TOWNES	11/02/2021

RECEIVING PARTY DATA

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Street Address:	KINGS PLACE
City:	LONDON
State/Country:	UNITED KINGDOM
Postal Code:	N19FX

PROPERTY NUMBERS Total: 1

Property Type	Number		
Application Number:	17519822		

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using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

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ATTORNEY DOCKET NUMBER:	27163-346105/2019ID00048
NAME OF SUBMITTER:	SAMUEL C. GIESTING
SIGNATURE:	/SCG/
DATE SIGNED:	01/10/2023

Total Attachments: 3

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507686620 PATENT REEL: 062326 FRAME: 0093

	Attorney Docket No. <u>27163-346105</u> Client Reference No. <u>2019ID00048</u>				
		ASSIGNMENT FO	OR SINGLE ASSI	GNEE	
This d □	ocument is directed to: the attached patent do the below identified pa				
	DOCUMENT NUMBER	TITLE			FILED
	17/519,822	CERAMIC MATR	IX COMPOSITE V	ANE ASSEMBLY	11/05/2021
s desinoatent above- PROPI NOW, assign, includ	rous of acquiring the ent application(s) related to referenced patent docum ERTY"), and further in a THEREFORE, for good, and set over to ASSIGN ling the right to claim pres and Arrangements fro		agdom N1 9FX in and to the above ent document(s), and priority patent application the INT on, the sufficiency of e right to the INTEI the International Contention in the content of the international content in the inter	I/or all subject matter cation(s) (hereinafter ELLECTUAL PROPERTIES OF Which is acknowled LECTUAL PROPERTIES OF THE PROP	cument(s), all priori disclosed in the "INTELLECTUAL PERTY worldwide; dged, I hereby sell, RTY worldwide levant International my and all Letters
all fore ight, to full en me had assigne Furthe NTEL cooper	eign countries to issue ar title, and interest in and to d of the term for which to d this assignment and sal ed, and that the undersigent, I agree to communicate LLECTUAL PROPERTY trate in every way possible	the Patent Office officials by and all of the Letters Patent of the same, for the sole us the Letters Patent are grantle not been made and here ned has not executed, and the teto ASSIGNEE or its repart of the in obtaining evidence in the all papers for divisional	atent, when granted, see and benefit of AS ted, as fully and ent by covenants that I will not execute, ar presentatives any facegal proceeding regular support of rights as	to ASSIGNEE as the SIGNEE, its successoriely as the same wou have full right to control agreement in conflicts known to me regardarding the INTELLE associated with INTEL	e assignee of my enti- ors and assigns, to the ald have been held by vey the interest herei- ict herewith. Trying the CTUAL PROPERTY LECTUAL
execut rightfu proper I hereb necess	e all necessary assignment oaths, and generally do protection for the INTE by grant the attorney of rary or desirable in order	ent papers to cause any and of everything possible to aid LLECTUAL PROPERTY ecord the power to insert of to comply with the rules of	d all of the Letters F d ASSIGNEE, its st worldwide.	atent to be issued to a accessors and assigns ny further identificat	ASSIGNEE, make al , to obtain and enforction which may be
	ation of this assignment.		** * *		
LEGA	AL NAME OF INVENT	ГОR: <u>Michael J. W</u>	/hittle		
	ture:		Data	11/2/2021	
Signat	ture:	440	Date: _		

REEL: 062326 FRAME: 0094

		Attorney Docket No. 27163-3 Client Reference No. 2019	
		ASSIGNMENT FOR SINGLE ASSIGNEE	
This do	cument is directed to: the attached patent docume the below identified patent		
	DOCUMENT NUMBER	TITLE	FILED
	17/519,822	CERAMIC MATRIX COMPOSITE VANE ASSEMBLY	11/05/2021
is desired patent a above-re	ous of acquiring the entire ri pplication(s) related to the a eferenced patent document(s	(hereinafter "ASSIGNEE"), having a place of business London, United Kingdom N1 9FX ght, title, and interest in and to the above-referenced patent document(s), and/or all subject matter of and/or the related priority patent application(s) (hereinafter "o any Letters Patent granted from the INTELLECTUAL PROP	, ument(s), all priority disclosed in the INTELLECTUAL
assign, a (includi Treaties Patent g	and set over to ASSIGNEE, ng the right to claim priority and Arrangements from the	valuable consideration, the sufficiency of which is acknowled, the full and exclusive right to the INTELLECTUAL PROPER under the terms of the International Convention and other relevant application) and the entire right, title, and interest in and to an UAL PROPERTY worldwide and in and to any and all division lewals thereof.	TY worldwide evant International y and all Letters
all forei right, tit full end me had	gn countries to issue any and le, and interest in and to the of the term for which the Lethis assignment and sale not	attent Office officials in the United States and its territorial post d all of the Letters Patent, when granted, to ASSIGNEE as the same, for the sole use and benefit of ASSIGNEE, its successor etters Patent are granted, as fully and entirely as the same would been made and hereby covenants that I have full right to convenas not executed, and will not execute, any agreement in conflict	assignee of my entire is and assigns, to the d have been held by ey the interest herein
INTELI coopera PROPE execute rightful	LECTUAL PROPERTY, an te in every way possible in or RTY. I agree to execute all all necessary assignment pa oaths, and generally do ever	ASSIGNEE or its representatives any facts known to me regard will testify in any legal proceeding regarding the INTELLEC obtaining evidence in support of rights associated with INTELI papers for divisional, continuation, substitute, renewal, and rei pers to cause any and all of the Letters Patent to be issued to A cything possible to aid ASSIGNEE, its successors and assigns, CTUAL PROPERTY worldwide.	TUAL PROPERTY, LECTUAL ssue applications, SSIGNEE, make all
necessa		I the power to insert on this assignment any further identification in the rules of the United States Patent and Trademark	
LEGAI	L NAME OF INVENTOR	Andrew T. Holt	
Signatu	DocuSigned by: A 1 140 441 3D78E05B207641A	Date:11/1/2021	
DMS 12368	3025v1	PATI	=NT ·

REEL: 062326 FRAME: 0095

				tet No. <u>27163-3</u> ce No. <u>2019</u>		
		ASSIGNMENT FOR SING	GLE ASSIGNEE			
This do	cument is directed to: the attached patent docume the below identified patent					
	DOCUMENT NUMBER	TITLE			FILED	
	17/519,822	CERAMIC MATRIX COM	POSITE VANE	ASSEMBLY	11/05/2021	
is desired patent a above-r PROPE NOW, assign, (includi	WHEREAS, Rolls-Royce plc a corporation (hereinafter "ASSIGNEE"), having a place of business at Kings Place, 90 York Way, London, United Kingdom N1 9FX is desirous of acquiring the entire right, title, and interest in and to the above-referenced patent document(s), all priority patent application(s) related to the above-referenced patent document(s), and/or all subject matter disclosed in the above-referenced patent document(s) and/or the related priority patent application(s) (hereinafter "INTELLECTUAL PROPERTY"), and further in and to any Letters Patent granted from the INTELLECTUAL PROPERTY worldwide; NOW, THEREFORE, for good and valuable consideration, the sufficiency of which is acknowledged, I hereby sell, assign, and set over to ASSIGNEE, the full and exclusive right to the INTELLECTUAL PROPERTY worldwide (including the right to claim priority under the terms of the International Convention and other relevant International Treaties and Arrangements from the application) and the entire right, title, and interest in and to any and all Letters					
I hereby all forei right, tit full end me had assigned Further, INTELI coopera	ign countries to issue any antle, and interest in and to the lof the term for which the Lothis assignment and sale not d, and that the undersigned larger to communicate to LECTUAL PROPERTY, and the in every way possible in our terms.	atent Office officials in the Ud all of the Letters Patent, who same, for the sole use and be etters Patent are granted, as fur been made and hereby cover has not executed, and will not ASSIGNEE or its representated will testify in any legal proobbtaining evidence in support	en granted, to ASS nefit of ASSIGNE lly and entirely as ants that I have fu execute, any agree ves any facts know eeding regarding of rights associate	SIGNEE as the action its successor the same would all right to convergement in confliction where to me regard the INTELLEC and with INTELLEC.	assignee of my entire es and assigns, to the d have been held by ey the interest herein et herewith. ling the TUAL PROPERTY, LECTUAL	
PROPE execute rightful proper I I hereby necessa	ERTY. I agree to execute all all necessary assignment particle oaths, and generally do every protection for the INTELLE by grant the attorney of records.	papers for divisional, continu pers to cause any and all of the ything possible to aid ASSIG CTUAL PROPERTY worldw the power to insert on this as imply with the rules of the University	ation, substitute, release Letters Patent to NEE, its successo ide.	enewal, and reise be issued to A ars and assigns, the her identification	ssue applications, SSIGNEE, make all to obtain and enforce on which may be	
LEGAI	L NAME OF INVENTOR	Roderick M. Townes				
Signatu	re:	dunes	Date: 11/	/2/2021		
DMS 12368	8025v1			PATE	=NT	

RECORDED: 01/10/2023 REEL: 062326 FRAME: 0096