506668086 05/18/2021

PATENT ASSIGNMENT COVER SHEET

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Stylesheet Version v1.2

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
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MICHAEL J. WHITTLE	06/24/2019
STEVEN HILLIER	06/19/2019

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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16409231

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ATTORNEY DOCKET NUMBER:	57502-290435/18761
NAME OF SUBMITTER:	SAMUEL C. GIESTING
SIGNATURE:	/SCG/
DATE SIGNED:	05/18/2021

Total Attachments: 3

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> **PATENT** REEL: 056271 FRAME: 0186 506668086

		Attorney Docket No. <u>57502-2</u>	
		Client Reference No. 1876	51
		ASSIGNMENT FOR SINGLE ASSIGNEE	
This doo	cument is directed to: the attached patent document the below identified patent of		
	DOCUMENT NUMBER	TITLE	FILED
	16/409,231	TURBINE ENGINE ASSEMBLY WITH CERAMIC MATRIX COMPOSITE COMPONENTS AND END FACE SEALS	05/10/2019
WHERE	EAS, Rolls-Royce plc		
a	corporation 62 Buckingham Gate Lond	(hereinafter "ASSIGNEE"), having a place of business lon, SWIE 6AT, Great Britain	at
patent a above-re	ous of acquiring the entire rig pplication(s) related to the all eferenced patent document(s	ght, title, and interest in and to the above-referenced patent doc bove-referenced patent document(s), and/or all subject matter of and/or the related priority patent application(s) (hereinafter "any Letters Patent granted from the INTELLECTUAL PROP	disclosed in the INTELLECTUAL
assign, a (including Treaties Patent g	and set over to ASSIGNEE, ing 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 release application) and the entire right, title, and interest in and to an UAL PROPERTY worldwide and in and to any and all division ewals thereof.	TY worldwide evant International by 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 Le this assignment and sale not	atent Office officials in the United States and its territorial post all of the Letters Patent, when granted, to ASSIGNEE as the same, for the sole use and benefit of ASSIGNEE, its successoretters Patent are granted, as fully and entirely as the same would been made and hereby covenants that I have full right to converse not executed, and will not execute, any agreement in conflict	assignee of my entire rs and assigns, to the d have been held by ey the interest herein
INTELI coopera PROPE execute rightful	LECTUAL PROPERTY, and te in every way possible in o RTY. I agree to execute all all necessary assignment pap 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 reipers to cause any and all of the Letters Patent to be issued to A sything possible to aid ASSIGNEE, its successors and assigns, CTUAL PROPERTY worldwide.	TUAL PROPERTY, LECTUAL ssue applications, SSIGNEE, make all
necessar		the power to insert on this assignment any further identification mply with the rules of the United States Patent and Trademark	
LEGAI	NAME OF INVENTOR:	Anthony G. Razzell	
Signatu	re:	<i>U</i> 5/1/2019 Date:	
DMS 12368	025v1	PATI	FNT

REEL: 056271 FRAME: 0187

		Attorney Docket No. 57 Client Reference No	
		ASSIGNMENT FOR SINGLE ASSIGNEE	
This doo	cument is directed to: the attached patent docu the below identified pate		
	DOCUMENT NUMBER	TITLE	FILED
	16/409,231	TURBINE ENGINE ASSEMBLY WITH CERA MATRIX COMPOSITE COMPONENTS AND I FACE SEALS	
patent ay above-re PROPEI NOW, Tassign, a (including Treaties Patent g continual I hereby all foreignight, tit	pplication(s) related to the eferenced patent docume RTY"), and further in an THEREFORE, for good and set over to ASSIGNI and the right to claim prior and Arrangements from granted on the INTELLE ations, substitutions, and authorize and request the gn countries to issue any tele, and interest in and to	re right, title, and interest in and to the above-referenced pater the above-referenced patent document(s), and/or all subject ment(s) and/or the related priority patent application(s) (hereing and to any Letters Patent granted from the INTELLECTUAL Is and valuable consideration, the sufficiency of which is acknown the full and exclusive right to the INTELLECTUAL PROPRITY under the terms of the International Convention and other the application) and the entire right, title, and interest in and CTUAL PROPERTY worldwide and in and to any and all discrenewals thereof. The Patent Office officials in the United States and its territorial and all of the Letters Patent, when granted, to ASSIGNEE at the same, for the sole use and benefit of ASSIGNEE, its successive Letters Patent are granted, as fully and entirely as the same	atter disclosed in the after "INTELLECTUAL PROPERTY worldwide; owledged, I hereby sell, OPERTY worldwide er relevant International to any and all Letters visionals, reissues, all possessions and any and as the assignee of my entiricessors and assigns, to the
assigned Further, INTELI coopera PROPE execute rightful	I agree to communicate LECTUAL PROPERTY, te in every way possible RTY. I agree to execute all necessary assignment oaths, and generally do execute all necessary assignment oaths, and generally do execute all necessary assignment oaths.	not been made and hereby covenants that I have full right to ed has not executed, and will not execute, any agreement in court to ASSIGNEE or its representatives any facts known to me and will testify in any legal proceeding regarding the INTE in obtaining evidence in support of rights associated with IN all papers for divisional, continuation, substitute, renewal, at papers to cause any and all of the Letters Patent to be issued everything possible to aid ASSIGNEE, its successors and assulectual PROPERTY worldwide.	conflict herewith. regarding the LLECTUAL PROPERTY TELLECTUAL nd reissue applications, d to ASSIGNEE, make all
necessai		cord the power to insert on this assignment any further identics comply with the rules of the United States Patent and Trade	
LEGAI	L NAME OF INVENTO	OR: Michael J. Whittle	

PATENT REEL: 056271 FRAME: 0188

		Attorney Docket No. <u>57502-2</u> Client Reference No. <u>1876</u>	
		ASSIGNMENT FOR SINGLE ASSIGNEE	
This do	cument is directed to: the attached patent docume the below identified patent		
	DOCUMENT NUMBER	TITLE	FILED
	16/409,231	TURBINE ENGINE ASSEMBLY WITH CERAMIC MATRIX COMPOSITE COMPONENTS AND END FACE SEALS	05/10/2019
is desired patent a above-r PROPE NOW, assign, (including Treaties Patent a continual I hereby all foreight, time full end me had assigned Further; INTELI coopera PROPE execute rightful proper prope	cous of acquiring the entire riapplication(s) related to the application(s) related to the application(s) related to the application(s) related to the application(s). THEREFORE, for good and and set over to ASSIGNEE, and the right to claim priority and Arrangements from the granted on the INTELLECTIVATIONS, substitutions, and remains a countries to issue any and the and interest in and to the lof the term for which the Lathis assignment and sale not d, and that the undersigned had and that the undersigned had a gree to communicate to LECTUAL PROPERTY, and the in every way possible in a carrier and generally do every protection for the INTELLER of grant the attorney of records.	Patent Office officials in the United States and its territorial posed all of the Letters Patent, when granted, to ASSIGNEE as the assame, 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 or its representatives any facts known to me regard d will testify in any legal proceeding regarding the INTELLEC obtaining evidence in support of rights associated with INTELL papers for divisional, continuation, substitute, renewal, and reigners to cause any and all of the Letters Patent to be issued to A rything possible to aid ASSIGNEE, its successors and assigns, and CTUAL PROPERTY worldwide. If the power to insert on this assignment any further identification omply with the rules of the United States Patent and Trademark	ument(s), all priority disclosed in the INTELLECTUAL ERTY worldwide; ged, I hereby sell, TY worldwide evant International y and all Letters hals, reissues, sessions and any and assignee of my entire and assigns, to the d have been held by ey the interest herein at herewith. Ling the TUAL PROPERTY, LECTUAL ssue applications, SSIGNEE, make all to obtain and enforce on which may be
	Steven Hillier	6/19/2019	
	ire:Steven stillier	Date:	
DMS 12368	8025v1	PATI	FNT

RECORDED: 05/18/2021 REEL: 056271 FRAME: 0189