## 505878739 01/23/2020

# PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
DAVID J. THOMAS	01/10/2020
JEFFREY A. WALSTON	01/10/2020
AARON D. SIPPEL	01/09/2020
DANIEL K. VETTERS	01/15/2020

## **RECEIVING PARTY DATA**

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Street Address:	450 S. MERIDIAN STREET
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State/Country:	INDIANA
Postal Code:	46225

#### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	16745975

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ATTORNEY DOCKET NUMBER:	27163-308275/RCA12554
NAME OF SUBMITTER:	SAMUEL C. GIESTING
SIGNATURE:	/SCG/
DATE SIGNED:	01/23/2020

### **Total Attachments: 4**

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PATENT 505878739 REEL: 051598 FRAME: 0888

	Attorney Docket No. 27163-308275 Client Reference No. RCA12554		
		ASSIGNMENT FOR SINGLE ASSIGNEE	
This dod	cument is directed to: the attached patent docume the below identified patent		
	DOCUMENT NUMBER	TITLE	FILED
	16/745,975	TURBINE SHROUD ASSEMBLY WITH MULTI-PIECE SUPPORT FOR CERAMIC MATRIX COMPOSITE MATERIAL SEAL SEGMENTS	01/17/2020
WHERI a	EAS, Rolls-Royce Corporation 450 S. Meridian Street, Ind	(hereinafter "ASSIGNEE"), having a place of business	at ,
patent apabove-re	ous of acquiring the entire ri pplication(s) related to the a eferenced patent document(s	ght, title, and interest in and to the above-referenced patent docubove-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	disclosed in the INTELLECTUAL
assign, a (including 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 properties application) and the entire right, title, and interest in and to an UAL PROPERTY worldwide and in and to any and all division newals thereof.	TY worldwide evant International by and all Letters
all foreight, 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	Patent Office officials in the United States and its territorial post dall 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 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, an te in every way possible in o 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 reippers to cause any and all of the Letters Patent to be issued to A rything possible to aid ASSIGNEE, its successors and assigns, CTUAL PROPERTY worldwide.	TUAL PROPERTY, LECTUAL ssue applications, SSIGNEE, make all
necessar		I the power to insert on this assignment any further identification of the United States Patent and Trademark	
LEGAI	L NAME OF INVENTOR	David J. Thomas	
Signatu	David J. Thomas	Date:	
DMS 12368	3025v1	PATI	ENT

REEL: 051598 FRAME: 0889

	Attorney Docket No. 27163-308275 Client Reference No. RCA12554		
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WHERE	EAS, Rolls-Royce Con	poration	
a	corporation 450 S. Meridian Street, I	(hereinafter "ASSIGNEE"), having a place of business	at
is desired patent ap above-re	ous of acquiring the entire pplication(s) related to the eferenced patent document	right, title, and interest in and to the above-referenced patent doce above-referenced patent document(s), and/or all subject matter of t(s) and/or the related priority patent application(s) (hereinafter "to any Letters Patent granted from the INTELLECTUAL PROPI	disclosed in the INTELLECTUAL
assign, a (including Treaties Patent g	and set over to ASSIGNE ing the right to claim prior and Arrangements from t	nd valuable consideration, the sufficiency of which is acknowled, it the full and exclusive right to the INTELLECTUAL PROPER' ity under the terms of the International Convention and other relected application) and the entire right, title, and interest in and to an TUAL PROPERTY worldwide and in and to any and all division tenewals thereof.	TY worldwide evant International y and all Letters
all foreignight, tit full end me had	gn countries to issue any a le, and interest in and to t of the term for which the this assignment and sale r	Patent Office officials in the United States and its territorial post and all of the Letters Patent, when granted, to ASSIGNEE as the the same, for the sole use and benefit of ASSIGNEE, its successor Letters Patent are granted, as fully and entirely as the same would not been made and hereby covenants that I have full right to conve d has not executed, and will not execute, any agreement in conflic	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, at the in every way possible in RTY. I agree to execute a all necessary assignment oaths, and generally do every street to be a significant to be a	o ASSIGNEE or its representatives any facts known to me regard and will testify in any legal proceeding regarding the INTELLEC n obtaining evidence in support of rights associated with INTELI all papers for divisional, continuation, substitute, renewal, and reipapers to cause any and all of the Letters Patent to be issued to A verything possible to aid ASSIGNEE, its successors and assigns, ECTUAL PROPERTY worldwide.	TUAL PROPERTY, LECTUAL ssue applications, SSIGNEE, make all
necessar		ord the power to insert on this assignment any further identification comply with the rules of the United States Patent and Trademark	
LEGAI	. NAME OF INVENTO	R:Jeffrey A. Walston	
	DocuSigned by:		
~•		1/10/2020 Date:	
Signatu	re:	Date:	

PATENT REEL: 051598 FRAME: 0890

		Attorney Docket No. <u>27163-3</u> Client Reference No. <u>RCA</u>	
		ASSIGNMENT FOR SINGLE ASSIGNEE	
This do	ocument is directed to: the attached patent docum the below identified paten	· ·	
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	16/745,975	TURBINE SHROUD ASSEMBLY WITH MULTI-PIECE SUPPORT FOR CERAMIC MATRIX COMPOSITE MATERIAL SEAL SEGMENTS	01/17/2020
WHER	EAS, Rolls-Royce Cor	poration	,
a	corporation 450 S. Meridian Street, In	(hereinafter "ASSIGNEE"), having a place of business	at
patent a above-1	ous of acquiring the entire application(s) related to the referenced patent document	right, title, and interest in and to the above-referenced patent doc above-referenced patent document(s), and/or all subject matter of t(s) and/or the related priority patent application(s) (hereinafter " to any Letters Patent granted from the INTELLECTUAL PROP	disclosed in the INTELLECTUAL
assign, (includ Treatie Patent	and set over to ASSIGNEE ing the right to claim priori s and Arrangements from the	Id valuable consideration, the sufficiency of which is acknowled to the full and exclusive right to the INTELLECTUAL PROPER ty under the terms of the International Convention and other release application) and the entire right, title, and interest in and to an TUAL PROPERTY worldwide and in and to any and all division enewals thereof.	TY worldwide evant International by and all Letters
all fore right, ti full end me had	ign countries to issue any a tle, and interest in and to th I of the term for which the I this assignment and sale no	Patent Office officials in the United States and its territorial posind all of the Letters Patent, when granted, to ASSIGNEE as the same, for the sole use and benefit of ASSIGNEE, its successor Letters Patent are granted, as fully and entirely as the same would be been made and hereby covenants that I have full right to convert has 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
INTEL coopera PROPE execute rightful	LECTUAL PROPERTY, a fate in every way possible in ERTY. I agree to execute a e all necessary assignment p I oaths, and generally do ev	ASSIGNEE or its representatives any facts known to me regard and will testify in any legal proceeding regarding the INTELLECT obtaining evidence in support of rights associated with INTELI II papers for divisional, continuation, substitute, renewal, and reipapers to cause any and all of the Letters Patent to be issued to A erything possible to aid ASSIGNEE, its successors and assigns, ECTUAL PROPERTY worldwide.	TUAL PROPERTY LECTUAL ssue applications, SSIGNEE, make all
necessa		rd the power to insert on this assignment any further identification comply with the rules of the United States Patent and Trademark	
LEGA	L NAME OF INVENTOR	R: <u>Aaron D. Sippel</u>	
Signati	DocuSigned by:  Aaron D. Sippel  Ure:		
DMS 1236	68025v1	PAT	ENT

REEL: 051598 FRAME: 0891

		Attorney Docket No. 27163-3	
		Client Reference No. RCA	A12554
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	16/745,975	TURBINE SHROUD ASSEMBLY WITH MULTI-PIECE SUPPORT FOR CERAMIC MATRIX COMPOSITE MATERIAL SEAL SEGMENTS	01/17/2020
WHERI	EAS, <u>Rolls-Royce Cor</u>	(hereinafter "ASSIGNEE"), having a place of business	at ,
natent a above-re PROPE NOW, 7 assign, a (includi Treaties Patent g	pplication(s) related to the eferenced patent document RTY"), and further in and THEREFORE, for good and set over to ASSIGNEE and the right to claim priority and Arrangements from the	right, title, and interest in and to the above-referenced patent doce above-referenced patent document(s), and/or all subject matter of t(s) and/or the related priority patent application(s) (hereinafter "to any Letters Patent granted from the INTELLECTUAL PROPER and valuable consideration, the sufficiency of which is acknowledge, the full and exclusive right to the INTELLECTUAL PROPER ity under the terms of the International Convention and other release application) and the entire right, title, and interest in and to an TUAL PROPERTY worldwide and in and to any and all division	disclosed in the INTELLECTUAL ERTY worldwide; ged, I hereby sell, TY worldwide evant International y and all Letters
all forei right, tit full end me had	gn countries to issue any a le, and interest in and to the of the term for which the this assignment and sale n	Patent Office officials in the United States and its territorial post and all of the Letters Patent, when granted, to ASSIGNEE as the he same, for the sole use and benefit of ASSIGNEE, its successor Letters Patent are granted, as fully and entirely as the same would not been made and hereby covenants that I have full right to convi- I has not executed, and will not execute, any agreement in conflic-	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, a te in every way possible in RTY. I agree to execute a all necessary assignment p oaths, and generally do ev	o ASSIGNEE or its representatives any facts known to me regard and will testify in any legal proceeding regarding the INTELLEC nobtaining evidence in support of rights associated with INTELI all papers for divisional, continuation, substitute, renewal, and reipapers to cause any and all of the Letters Patent to be issued to Averything possible to aid ASSIGNEE, its successors and assigns, ECTUAL PROPERTY worldwide.	TUAL PROPERTY, LECTUAL ssue applications, SSIGNEE, make all
necessa		ord the power to insert on this assignment any further identification comply with the rules of the United States Patent and Trademark	
LEGAI	L NAME OF INVENTO	R: Daniel K. Vetters	
Signatu	Daniel k. Veller	νς 1/15/2020 <b>Date:</b>	
DMS 12368	3025v1	PAT	ENT

RECORDED: 01/23/2020 REEL: 051598 FRAME: 0892