506686065 05/27/2021

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
TED J. FREEMAN	10/25/2019

RECEIVING PARTY DATA

Name:	ROLLS-ROYCE NORTH AMERICAN TECHNOLOGIES INC.	
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City:	INDIANAPOLIS	
State/Country:	INDIANA	
Postal Code:	46241	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16688538

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	27163-299039
NAME OF SUBMITTER:	JOHN T. ROUTON
SIGNATURE:	/JTR/
DATE SIGNED:	05/27/2021

Total Attachments: 1

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PATENT 506686065 REEL: 056371 FRAME: 0156

DOCUMENT NUMBER TURBINE SHROUD ASSEMBLY WITH CERAMIC MATRIX COMPOSITE BLADE TRACK SEGMENTS AND FULL HOOP CARRIER THEREAS, Rolls-Royce North American Technologies Inc.			Attorney Docket No. <u>27163-</u> Client Reference No. <u>RC</u>	
the attached patent document(s) and/or the below identified patent document(s): DOCUMENT TITLE TURBINE SHROUD ASSEMBLY WITH CERAMIC MATRIX COMPOSITE BLADE TRACK SEGMENTS AND FULL HOOP CARRIER 11/19/2019			ASSIGNMENT FOR SINGLE ASSIGNEE	
the below identified patent document(s): DOCUMENT TITLE TURBINE SHROUD ASSEMBLY WITH CERAMIC MATRIX COMPOSITE BLADE TRACK SEGMENTS AND FULL HOOP CARRIER 11/19/2019	This do			
THEREAS, Rolls-Royce North American Technologies Inc. corporation (hereinafter "ASSIGNEE"), having a place of business at 2059 S. Tibbs Ave., Indianapolis, IN 46241 desirous of acquiring the entire right, title, and interest in and to the above-referenced patent document(s), all pritent application(s) related to the above-referenced patent document(s), and/or all subject matter disclosed in the over-referenced patent document(s) and/or the related priority patent application(s) (hereinafter "INTELLECTUAN ROPERTY"), and further in and to any Letters Patent granted from the INTELLECTUAL PROPERTY worldwide or light to claim priority under the terms of the International Convention and other relevant Internation reates and Arrangements from the application) and the entire right, title, and interest in and to any and all Letter atent granted on the INTELLECTUAL PROPERTY worldwide are activated on the INTELLECTUAL PROPERTY worldwide are granted on the INTELLECTUAL PROPERTY worldwide and in and to any and all divisionals, reissues, intinuations, substitutions, and renewals thereof. Inforeign countries to issue any and all of the Letters Patent, when granted, to ASSIGNEE as the assignee of my ght, title, and interest in and to the same, for the sole use and benefit of ASSIGNEE, its successors and assigns, till end of the term for which the Letters Patent are granted, as fully and entirely as the same would have been hele had this assignment and sale not been made and hereby covenants that I have full right to convey the interest his gined, and that the undersigned has not executed, and will not execute, any agreement in conflict herewith. AUTHORITY AND THE ARCHART AND ARCHART	X			
MATRIX COMPOSITE BLADE TRACK SEGMENTS AND FULL HOOP CARRIER THEREAS, Rolls-Royce North American Technologies Inc. corporation (hereinafter "ASSIGNEE"), having a place of business at 2059 S. Tibbs Ave., Indianapolis. IN 46241 desirous of acquiring the entire right, title, and interest in and to the above-referenced patent document(s), all pritent application(s) related to the above-referenced patent document(s), and/or all subject matter disclosed in the oweve-referenced patent document(s) and/or the related priority patent application(s) (hereinafter "INTELLECTU.ROPERTY"), and further in and to any Letters Patent granted from the INTELLECTUAL PROPERTY worldwide own of the right to claim priority under the terms of the International Convention and other relevant Internation relations and Arrangements from the application) and the entire right, title, and interest in and to any and all Letters tent granted on the INTELLECTUAL PROPERTY worldwide and in and to any and all divisionals, reissues, intinuations, substitutions, and renewals thereof. Thereby authorize and request the Patent Office officials in the United States and its territorial possessions and any foreign countries to issue any and all of the Letters Patent, when granted, to ASSIGNEE as the assignee of my glit, title, and interest in and to the same, for the sole use and benefit of ASSIGNEE, its successors and assigns, to ll end of the term for which the Letters Patent are granted, as fully and entirely as the same would have been hele had this assignment and sale not been made and hereby covenants that I have full right to convey the interest h signed, and that the undersigned has not executed, and will not execute, any agreement in conflict herewith. AROPERTY. I agree to communicate to ASSIGNEE or its representatives any facts known to me regarding the INTELLECTUAL PROPERTY, and will testify in any legal proceeding regarding the INTELLECTUAL PROPERTY. I agree to execute all papers for divisional, continuation, substitute, renewal, and reissue ap		l .	TITLE	FILED
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desirous of acquiring the entire right, title, and interest in and to the above-referenced patent document(s), and/or platent application(s) related to the above-referenced patent document(s), and/or all subject matter disclosed in the tower-referenced patent document(s) and/or the related priority patent application(s) (hereinafter 'INTELLECTUAR'). ROPERTY'', and further in and to any Letters Patent granted from the INTELLECTUAL PROPERTY worldwide of the patent of the patent granted from the INTELLECTUAL PROPERTY worldwide sign, 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 Internation reaties and Arrangements from the application) and the entire right, title, and interest in and to any and all Letters attent granted on the INTELLECTUAL PROPERTY worldwide and in and to any and all divisionals, reissues, intimuations, substitutions, and renewals thereof. Thereby authorize and request the Patent Office officials in the United States and its territorial possessions and any and interest in and to the same, for the sole use and benefit of ASSIGNEE, its successors and assigns, to the land this assignment and sale not been made and hereby covenants that I have full right to convey the interest he signed, and that the undersigned has not executed, and will not execute, any agreement in conflict herewith. Further, I agree to communicate to ASSIGNEE or its representatives any facts known to me regarding the treLLECTUAL PROPERTY, and will testify in any legal proceeding regarding the INTELLECTUAL PROPERTY. I agree to execute all papers for divisional, continuation, substitute, renewal, and reissue application receuted all necessary assignment papers to cause any and all of the Letters Patent to be issued to ASSIGNEE, make that the undersigned has not executed in the substitute, renewal, and reissue application of the Letters patent to be issued to ASSIGNEE, in the pape	·	_		s at
If foreign countries to issue any and all of the Letters Patent, when granted, to ASSIGNEE as the assignee of my of ght, title, and interest in and to the same, for the sole use and benefit of ASSIGNEE, its successors and assigns, to all end of the term for which the Letters Patent are granted, as fully and entirely as the same would have been held that have full right to convey the interest has signed, and that the undersigned has not executed, and will not execute, any agreement in conflict herewith. In ther, I agree to communicate to ASSIGNEE or its representatives any facts known to me regarding the INTELLECTUAL PROPERTY, and will testify in any legal proceeding regarding the INTELLECTUAL PROPEI properate in every way possible in obtaining evidence in support of rights associated with INTELLECTUAL ROPERTY. I agree to execute all papers for divisional, continuation, substitute, renewal, and reissue application frecute all necessary assignment papers to cause any and all of the Letters Patent to be issued to ASSIGNEE, make aphtful oaths, and generally do everything possible to aid ASSIGNEE, its successors and assigns, to obtain and encoper protection for the INTELLECTUAL PROPERTY worldwide. In the successary of the extremely of record the power to insert on this assignment any further identification which may be be successary or desirable in order to comply with the rules of the United States Patent and Trademark Office for cordation of this assignment. Ted J. Freeman	patent a above-r PROPE NOW, assign, (includer Patent s	application(s) related to the referenced patent document ERTY"), and further in and THEREFORE, for good are and set over to ASSIGNED ing the right to claim prior and Arrangements from the granted on the INTELLEC	e above-referenced patent document(s), and/or all subject matter t(s) and/or the related priority patent application(s) (hereinafter to any Letters Patent granted from the INTELLECTUAL PROFINAL Valuable consideration, the sufficiency of which is acknowled E, the full and exclusive right to the INTELLECTUAL PROPERITY under the terms of the International Convention and other related 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 PERTY worldwide; Iged, I hereby sell, RTY worldwide evant International ny and all Letters
NTELLECTUAL PROPERTY, and will testify in any legal proceeding regarding the INTELLECTUAL PROPER properate in every way possible in obtaining evidence in support of rights associated with INTELLECTUAL ROPERTY. I agree to execute all papers for divisional, continuation, substitute, renewal, and reissue application accute all necessary assignment papers to cause any and all of the Letters Patent to be issued to ASSIGNEE, making and generally do everything possible to aid ASSIGNEE, its successors and assigns, to obtain and entroper protection for the INTELLECTUAL PROPERTY worldwide. The property of record the power to insert on this assignment any further identification which may be excessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for cordation of this assignment. Ted J. Freeman Ted J. Freeman	all fore right, ti full end me had	ign countries to issue any a tle, and interest in and to tl I of the term for which the this assignment and sale n	and all of the Letters Patent, when granted, to ASSIGNEE as the ne same, for the sole use and benefit of ASSIGNEE, its successor Letters Patent are granted, as fully and entirely as the same wou not been made and hereby covenants that I have full right to converge.	assignee of my entions and assigns, to the ld have been held by yey the interest herei
ecessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for cordation of this assignment. EGAL NAME OF INVENTOR: Ted J. Freeman	NTEL coopera PROPE execute rightful	LECTUAL PROPERTY, a rate in every way possible in ERTY. I agree to execute a e all necessary assignment of loaths, and generally do ever	and will testify in any legal proceeding regarding the INTELLECT nobtaining evidence in support of rights associated with INTEL all papers for divisional, continuation, substitute, renewal, and repapers to cause any and all of the Letters Patent to be issued to Averything possible to aid ASSIGNEE, its successors and assigns,	CTUAL PROPERT LECTUAL issue applications, ASSIGNEE, make a
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