507179372 03/15/2022

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
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| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|--------------------|----------------|
| DANIEL CLARK | 02/18/2022 |
| MICHAEL J. WHITTLE | 12/16/2021 |
| CARL BOETTCHER | 12/19/2021 |
| DAVID C. WRIGHT | 12/14/2021 |

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| Postal Code: | N19FX |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 17560233 |

CORRESPONDENCE DATA

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| ATTORNEY DOCKET NUMBER: | 27163-347311/2019P00619 |
|-------------------------|-------------------------|
| NAME OF SUBMITTER: | SAMUEL C. GIESTING |
| SIGNATURE: | /SCG/ |
| DATE SIGNED: | 03/15/2022 |

Total Attachments: 4

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| | | Attorney Docket No. 27163- Client Reference No. 2019 | |
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| } | | ASSIGNMENT FOR SINGLE ASSIGNEE | |
| | This document is directed to: the attached patent document(s) and/or the below identified patent document(s): | | |
| | DOCUMENT NUMBER | TITLE | FILED |
| | 17/560,233 | CERAMIC MATRIX COMPOSITE TURBINE VANE ASSEMBLY HAVING MINIMALISTIC SUPPORT SPARS | 12/22/2021 |
| is desiro patent ap above-re PROPER NOW, T assign, a (includir | oplication(s) related to the ferenced patent documents (TY"), and further in an effective the ferenced for good and set over to ASSIGNI | (hereinafter "ASSIGNEE"), having a place of business <u>Vay. London. N1 9FX</u> e right, title, and interest in and to the above-referenced patent doc the above-referenced patent document(s), and/or all subject matter of the above-referenced patent document(s), and/or all subject matter of the above-referenced patent document(s), and/or all subject matter of the above-referenced patent document(s), and/or all subject matter of the document of the internation of the internation of the internation of place of business entity under the terms of the International Convention and other rele | cument(s), all priority disclosed in the INTELLECTUAL ERTY worldwide; ged, I hereby sell, TY worldwide |

PATENT REEL: 059274 FRAME: 0553

| | | Attorney Docket No. 27163-3 Client Reference No. 2019 | |
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| This do | cument is directed to: the attached patent docume the below identified patent | | |
| | DOCUMENT NUMBER | TITLE | FILED |
| | 17/560,233 | CERAMIC MATRIX COMPOSITE TURBINE VANE ASSEMBLY HAVING MINIMALISTIC SUPPORT SPARS | 12/22/2021 |
| is desired patent a above-reproper in a sign, a (including Treaties Patent ground assigned assigned Further, INTELI cooperate PROPE execute rightful proper in the reby necessare cordana assigned assigned the reby necessare recordana assigned the reby necessare respectively. | pplication(s) related to the a eferenced patent document(s) RTY"), and further in and to THEREFORE, for good and and set over to ASSIGNEE, ng the right to claim priority and Arrangements from the tranted on the INTELLECTU ations, substitutions, and render authorize and request the P gn countries to issue any and the term for which the Let this assignment and sale not d, and that the undersigned has a larger to communicate to ALECTUAL PROPERTY, and the in every way possible in the RTY. I agree to execute all all necessary assignment paraoaths, and generally do every or desirable in order to cotton of this assignment. L NAME OF INVENTOR: | 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 valuable consideration, the sufficiency of which is acknowledge 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 any JAL PROPERTY worldwide and in and to any and all division ewals thereof. attent Office officials in the United States and its territorial posed all of the Letters Patent, when granted, to ASSIGNEE as the same, for the sole use and benefit of ASSIGNEE, its successor exters Patent are granted, as fully and entirely as the same would been made and hereby covenants that I have full right to convent as not executed, and will not execute, any agreement in conflict 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 sything possible to aid ASSIGNEE, its successors and assigns, CTUAL PROPERTY worldwide. The power to insert on this assignment any further identification mply with the rules of the United States Patent and Trademark Michael J. Whittle | cument(s), all priority disclosed in the INTELLECTUAL ERTY worldwide; ged, I hereby sell, TY worldwide evant International by and all Letters hals, reissues, assignee of my entire and assignee of my entire and assigns, to the dhave been held by ey the interest herein at herewith. Hing the TUAL PROPERTY, LECTUAL ssue applications, assignee, make all to obtain and enforce on which may be |
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| | Attorney Docket No. <u>27163-347311</u> Client Reference No. <u>2019P00619</u> | | |
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| | 17/560,233 | CERAMIC MATRIX COMPOSITE TURBINE VANE ASSEMBLY HAVING MINIMALISTIC SUPPORT SPARS | 12/22/2021 |
| is desired patent at above-re PROPE! NOW, Tassign, a (including Treaties Patent gontinual Interest) all foreignight, titte full end me had assigned. Further, INTELI coopera PROPE execute rightful proper | pplication(s) related to the efferenced patent documents (RTY"), and further in and to the EHEREFORE, for good and and set over to ASSIGNEE ing the right to claim priority and Arrangements from the ranted on the INTELLECT attions, substitutions, and results and request the large countries to issue any arrangement in and to the of the term for which the Lithis assignment and sale not and that the undersigned I agree to communicate to LECTUAL PROPERTY, and the in every way possible in RTY. I agree to execute all all necessary assignment poaths, and generally do ever or the INTELLE grant the attorney of records. | ight, title, and interest in and to the above-referenced patent doc above-referenced patent document(s), and/or all subject matter of (s) and/or the related priority patent application(s) (hereinafter "to any Letters Patent granted from the INTELLECTUAL PROPER to any Letters Patent granted from the INTELLECTUAL PROPER of valuable consideration, the sufficiency of which is acknowledge, the full and exclusive right to the INTELLECTUAL PROPER by under the terms of the International Convention and other rele application) and the entire right, title, and interest in and to an TUAL PROPERTY worldwide and in and to any and all division mewals thereof. Patent Office officials in the United States and its territorial posted all of the Letters Patent, when granted, to ASSIGNEE as the esame, for the sole use and benefit of ASSIGNEE, its successor etters Patent are granted, as fully and entirely as the same would be been made and hereby covenants that I have full right to convent has not executed, and will not execute, any agreement in conflict ASSIGNEE or its representatives any facts known to me regard will testify in any legal proceeding regarding the INTELLECT obtaining evidence in support of rights associated with INTELIA papers for divisional, continuation, substitute, renewal, and reigapers to cause any and all of the Letters Patent to be issued to A cerything possible to aid ASSIGNEE, its successors and assigns, ECTUAL PROPERTY worldwide. The documental document is assignment any further identification comply with the rules of the United States Patent and Trademark is: Carl Boettcher | 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 as and assigns, to the dhave been held by ey the interest hereing the TUAL PROPERTY, LECTUAL ssue applications, SSIGNEE, make all to obtain and enforce on which may be Office for |
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| | | Attorney Docket No. 27163-3 Client Reference No. 2019 | |
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| | 17/560,233 | CERAMIC MATRIX COMPOSITE TURBINE VANE ASSEMBLY HAVING MINIMALISTIC SUPPORT SPARS | 12/22/2021 |
| WHERI a | EAS, Rolls-Royce plc corporation Kings Place, 90 York Wa | (hereinafter "ASSIGNEE"), having a place of business | at , |
| patent a above-re | ous of acquiring the entire pplication(s) related to the eferenced patent documen | right, title, and interest in and to the above-referenced patent doce above-referenced patent document(s), and/or all subject matter at(s) and/or the related priority patent application(s) (hereinafter "I to any Letters Patent granted from the INTELLECTUAL PROP | disclosed in the INTELLECTUAL |
| assign, a (includi 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, E, 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 renewals thereof. | TY worldwide evant International and all Letters |
| all forei right, tit full end me had | gn countries to issue any a de, and interest in and to the of the term for which the this assignment and sale n | e 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 convid 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 |
| INTELI coopera PROPE execute rightful | te in every way possible in RTY. I agree to execute a all necessary assignment 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 n obtaining evidence in support of rights associated with INTELI all papers for divisional, continuation, substitute, renewal, and rei papers 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. | TTUAL PROPERTY LECTUAL ssue applications, SSIGNEE, make all |
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| LEGAI | L NAME OF INVENTO | R: David C. Wright | |
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