505106544 09/21/2018

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ALAN SMITH	09/12/2018

RECEIVING PARTY DATA

Name:	ROLLS-ROYCE CORPORATION
Street Address:	450 SOUTH MERIDIAN STREET
City:	INDIANAPOLIS
State/Country:	INDIANA
Postal Code:	46225

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16138469

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Fax Number:

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ATTORNEY DOCKET NUMBER:	G2640-00221 / RCA12155
NAME OF SUBMITTER:	D. JOSEPH ENGLISH
SIGNATURE:	/D. Joseph English/
DATE SIGNED:	09/21/2018

Total Attachments: 2

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PATENT 505106544 REEL: 046941 FRAME: 0578

ASSIGNMENT

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For good and valuable consideration, sufficiency and receipt of which is hereby acknowledged by the undersigned(s), the undersigned agree(s) to assign, and hereby do(es) assign, transfer and set over to

Name of Assignee	Rolls-Royce Corporation
Address of Assignee	450 South Meridian Street
	Indianapolis, Indiana 46225

and its successors, legal representatives and assigns (hereinafter designated as the Assignee) the entire right, title and interest in the invention disclosed and/or claimed in the United States application identified below, as well as all applications for patent and any Letters Patent which may be granted therefor and therefrom in the United States of America and all foreign countries, and in and to any and all divisions, continuations, continuations-in-part of said applications, or re-issues or extensions of said patents or Letters Patent, and all rights under the International Convention for the Protection of Industrial Property:

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The undersigned further agree(s) to cooperate with the Assignee in every way possible and to do all affirmative acts, and to execute all papers which counsel for Assignee shall advise are necessary and/or desirable without charge to Assignee in connection with said applications including, without limitation, the execution of separate assignments in connection with such applications, claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patent of the United States resulting from said application or any division or

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PATENT REEL: 046941 FRAME: 0579 divisions or continuing applications thereof to said Assignee, as Assignee of the entire interest, and hereby covenants that he/she has (they have) full right to convey the entire interest herein assigned, and that he/she has (they have) not executed and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) to Patrick D. McPherson, Reg. No. 46,255; Mark C. Comtois, Reg. No. 46,285; D. Joseph English, Reg. No. 42,514; Patrick C. Muldoon, Reg. No. 47,343; and Justus L. Getty, Reg. No. 70,395; and the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent Office for recordation of this document.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date 9/12/2018 Signature of Inventor Alan Smith