505780470 11/19/2019

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	NUNC PRO TUNC ASSIGNMENT	
EFFECTIVE DATE:	12/20/2018	

CONVEYING PARTY DATA

Name	Execution Date
JOHN J. COSTELLO	09/27/2019
ROBERT T. DUGE	09/26/2019

RECEIVING PARTY DATA

Name:	ROLLS-ROYCE CORPORATION	
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City:	INDIANAPOLIS	
State/Country:	INDIANA	
Postal Code:	46225	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16687874

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ATTORNEY DOCKET NUMBER:	G2640-00321 / LWA12256	
NAME OF SUBMITTER:	PATRICK C. MULDOON	
SIGNATURE:	/Patrick C. Muldoon/	
DATE SIGNED:	11/19/2019	

Total Attachments: 2

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PATENT 505780470 REEL: 051047 FRAME: 0541

ASSIGNMENT

Name of Inventor	John J. Costello
	Robert T. Duge

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:

Title	SECURE ENGINE COMMUNICATION
Docket Number	G2640-00279 / LWA12256
Application Number	62/782,984
Application Filing Date:	December 20, 2018

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

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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 divisions or continuing applications thereof to said Assignee, as Assignee of the entire interest, and hereby coverants 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 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.

For all legal purposes, this Assignment shall be effective nunc pro tunc as of December 20, 2018.

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

Date 27-Scp1-2019 Signature of Inventor John J. Cos

Date 9/26/2019 Signature of Inventor Robert T. Dugo
Robert T. Dugo

RECORDED: 11/19/2019