505343399 02/25/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5390182

SUBMISSION TYPE: NATURE OF CONVEYANCE:		NEW ASSIGNMENT	NEW ASSIGNMENT ASSIGNMENT		
		ASSIGNMENT			
CONVEYING PART	ΓΥ DATA				
		Name		Execution Date	
JOHN JOSEPH CO	STELLO			02/21/2019	
RECEIVING PART	Υ DATA				
Name:	ROLLS	S-ROYCE CORPORATION			
Street Address:	450 SC	450 SOUTH MERIDIAN STREET			
City:	INDIAN	NAPOLIS			
State/Country:	INDIAN	NA			
Postal Code:	46225				
PROPERTY NUMB	ERS Total: 1	l			
Property Type		Number			
Application Number	er:	16283643			
<i>using a fax numbe</i> Phone: Email: Correspondent Na Address Line 1:	vill be sent to er, if provided	o the e-mail address first; if th d; if that is unsuccessful, it wi 2027767800 amherrman@duanemorris.com DUANE MORRIS LLP 505 9TH STREET NW	ill be sent via US i		
Address Line 2:		SUITE 1000			
Address Line 4:		WASHINGTON, D.C. 20004			
ATTORNEY DOCKET NUMBER:		G2640-00306 / LWA122	G2640-00306 / LWA12290		
NAME OF SUBMITTER:		PATRICK C. MULDOON	PATRICK C. MULDOON		
	SIGNATURE:		/Patrick C. Muldoon/		
SIGNATURE:			02/25/2019		
SIGNATURE: DATE SIGNED:		02/25/2019			

ASSIGNMENT

Name of Inventor

John Joseph Costello

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			
r.	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	APPARATUS AND METHODS FOR	
	AUTHENTICATING CYBER SECURE	
	CONTROL SYSTEM CONFIGURATIONS	
	USING DISTRIBUTED LEDGERS	
Docket Number	G2640-00306 / LWA12290	

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 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 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 <u>21-Feb-2d9</u> Signature of Inventor_

John Joseph Costello

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PATENT REEL: 048420 FRAME: 0719

RECORDED: 02/25/2019