

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

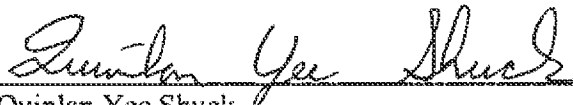
EPAS ID: PAT4603795

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	QUINLAN YEE SHUCK	10/25/2016
RECEIVING PARTY DATA		
Name:	ROLLS-ROYCE CORPORATION	
Street Address:	450 S. MERIDIAN STREET	
City:	INDIANAPOLIS	
State/Country:	INDIANA	
Postal Code:	46225-1103	
PROPERTY NUMBERS Total: 1		
	Property Type	Number
	Application Number:	15710424
CORRESPONDENCE DATA		
Fax Number:		
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>		
Phone:	651-735-1100	
Email:	pairedocketing@ssiplaw.com	
Correspondent Name:	SHUMAKER & SIEFFERT, P.A. ROLLS-ROYCE CO	
Address Line 1:	1625 RADIO DRIVE	
Address Line 2:	SUITE 100	
Address Line 4:	WOODBURY, MINNESOTA 55125	
ATTORNEY DOCKET NUMBER:	1106-259US01/RCA11703	
NAME OF SUBMITTER:	NANCY J. BURR	
SIGNATURE:	/Nancy J. Burr/	
DATE SIGNED:	09/20/2017	
Total Attachments: 1		
source=RCA11703_US_20160920_1106-259US01_Executed_Assignment#page1.tif		

ASSIGNMENT

For valuable consideration, I, Quinlan Yee Shuck of 4835 East 71st Street, Indianapolis, IN 46220 hereby assign to: Rolls-Royce Corporation, having a place of business at: 450 S. Meridian Street, Indianapolis, IN 46225-1103 and its successors and assigns (collectively hereinafter called "the Assignee") the entire right, title and interest throughout the world in the inventions and improvements which are the subject of an application for United States Patent signed by me, entitled **INVERTED DIRECTED ENERGY DEPOSITION**, filed September 20, 2017, and assigned U.S. Serial Number 15/710,424, this assignment including said application, (and do hereby authorize ASSIGNEE and its representative to hereafter add herein such application number(s) and/or filing date(s) when known), any provisional, continuation, continuation-in-part, divisional, reissue, renewal, extension or other application for any of said inventions or improvements, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes and I authorize the Assignee to apply in all countries in my name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and I agree for myself and my respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment. I hereby authorize Rolls-Royce Corporation, its employees, and its legal representatives to fill in the serial number and filing date above after this document has been executed.

Date: Oct. 25, 2016


Quinlan Yee Shuck