504179340 01/16/2017

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT4226973

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
RAYMOND J. SINATRA	01/20/2011
JESSE S. DAUGHERTY	01/20/2011
MARVIN ALEXANDER	01/25/2011

RECEIVING PARTY DATA

Name:	ROLLS-ROYCE CORPORATION
Street Address:	450 S. MERIDIAN STREET
City:	INDIANAPOLIS
State/Country:	HAWAII
Postal Code:	46225-1103

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13578157

CORRESPONDENCE DATA

Fax Number:

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.

Email: pairdocketing@ssiplaw.com SHUMAKER & SIEFFERT, P.A. Correspondent Name:

Address Line 1: 1625 RADIO DRIVE

Address Line 2: SUITE 300

Address Line 4: WOODBURY, MINNESOTA 55125

ATTORNEY DOCKET NUMBER:	1106-015US01/RCA10639
NAME OF SUBMITTER:	NANCY J. BURR
SIGNATURE:	/Nancy J. Burr/
DATE SIGNED:	01/16/2017

Total Attachments: 2

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PATENT REEL: 040977 FRAME: 0230 504179340

Attorney Docket No.: 1106-015USP1/RCA-10639

ASSIGNMENT

For valuable consideration, we, Raymond J. Sinatra of 8643 Mariesi Drive, Indianapolis, IN 46278, Jesse S. Daugherty of 798 Barry Knoll Street, Danville, IN 46122 and Marvin Alexander of 11440 East 106th Street, Fishers, IN 46038, hereby assign to: Rolls-Royce Corporation, having a place of business at: 2001 S. Tibbs Avenue, Indianapolis, IN 46241 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 us, entitled ABRADABLE CERAMIC COATINGS AND COATING SYSTEMS, filed on February 9, 2010, and assigned U.S. Serial Number 61/302,856; this assignment including said application, any provisional, non-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 we authorize the Assignee to apply in all countries in our 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 we agree for ourselves and our 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.

Date: fanuary 20, 2011

Raymond J. Sinatra

State of Indiana)

County of Marion)

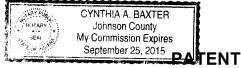
State of Indiana

On this <u>20</u> day of <u>January</u>, 2011, before me, <u>Cynthia A Baxter</u>, Notary Public, personally appeared Raymond J. Sinatra personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity, and that by his/her/their signature on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Cynthia a. Bafter Signature of Notary Public

My Commission Expires: September 25, 2015



REEL: 040977 FRAME: 0231

Date: January 20,2011 Jesse S. Daugherry
State of Indiana) County of Marian)
On this <u>20</u> day of <u>Sanvary</u> , 2011, before me, <u>Cynthia A Baste</u> , Notary Public, personally appeared Jesse S. Daughtery personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity, and that by his/her/their signature on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.
WITNESS my hand and official seal. Cynthia . Rafter Signature of Notary Public My Commission Expires: September 25, 2015
CYNTHIA A. BAXTER Johnson County My Commission Expires September 2015 Marvin Alexander
State of Indiana)) ss: County of Marion)
On this 25 day of Janvary, 2010, before me, Cynthia A Back, Notary Public, personally appeared Marvin Alexander personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity, and that by his/her/their signature on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.
WITNESS my hand and official seal. Cynthia Q. Bafter Signature of Notary Public My Commission Expires: September 25,2015
CYNTHIA A. BAXTER Johnson County My Commission Expires September 25, 2015

PATENT REEL: 040977 FRAME: 0232

RECORDED: 01/16/2017