#### 503470107 09/08/2015

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3516732

| SUBMISSION TYPE:      | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT     |

## **CONVEYING PARTY DATA**

| Name                        | Execution Date |
|-----------------------------|----------------|
| Keith Christopher GOLDFINCH | 07/23/2015     |
| Antonios KALOCHAIRETIS      | 07/23/2015     |

## **RECEIVING PARTY DATA**

| Name: Rolls-royce Plc |                    |
|-----------------------|--------------------|
| Street Address:       | 62 Buckingham Gate |
| City:                 | London             |
| State/Country:        | Great Britain      |
| Postal Code:          | SW1E 6AT           |

# **PROPERTY NUMBERS Total: 1**

| Property Type       | Number   |
|---------------------|----------|
| Application Number: | 14847889 |

# CORRESPONDENCE DATA

Fax Number: (703)836-2787

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.

Phone: 703-836-6400 Email: email@oliff.com Correspondent Name: JAMES A. OLIFF Address Line 1: OLIFF PLC

Address Line 2: P.O. BOX 320850

Address Line 4: ALEXANDRIA, VIRGINIA 22320-4850

| ATTORNEY DOCKET NUMBER: | 167740   |
|-------------------------|--|
| NAME OF SUBMITTER:      | INDIA WAGNER   |
| SIGNATURE:              | /India Wagner/   |
| DATE SIGNED:            | 09/08/2015   |
|                         | This document serves as an Oath/Declaration (37 CFR 1.63). |

# **Total Attachments: 2**

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> **PATENT** REEL: 036513 FRAME: 0147

503470107

# ASSIGNMENT (BEING FILED FOR DUAL PURPOSE UNDER 37 CFR 1.63(e)) For Application with Filing Date on or after September 16, 2012

#### ASSIGNMENT

|       | Insert                                    | (1)  | KEITH CHRISTOPHER GOLDFING  | 1 (2)                                   | ANTONIOS KALOCHAIRETIS   |
|-------|---|--|---|---|--|
| (1-8) | Legal Name(s)                             | (3)  |   | (4)                                     |  |
|       | of Inventor(s)                            | (5)  |   | (6)                                     |  |
|       |   | (7)  |   | (8)                                     |  |
|       |   | the un   |   | vhich are                               | r good and valuable consideration paid to each of<br>hereby acknowledged, each undersigned agrees to   |
| 9)    | Insert Name of<br>Assignee                | (9) ROLLS-ROYCE PLC                                      |   |   |  |
| 10)   | Insert Address of<br>Assignee             | (10) 62 Buckingham Gate, London, SWIE 6AT, Great Britain |   |   |  |
| •     |   | the ent<br>invent<br>contin                              | are right, title and interest for the United Sion, and in all applications for patent incli | States of /<br>iding any<br>lute and re | eirs, successors, assigns and legal representatives. America as defined in 35 U.S.C. § 100, in the and all provisional, non-provisional, divisional, assue application(s), and all Letters Patent, as be granted on the invention known as |
| 11)   | Insert Identification such as Title, Case | (11)   | FAN   |   |  |
|       | Number, or Foreign<br>Application Number  |  | 5595 SEV  | *************************************** |  |
|       |   | (Attor   | ney Docket No. 167740   |   | )  |
| 12)   | Alternative                               | (12)   | U.S. Application Number 1   | 4/84                                    | 17,889   |
|       | Identification for filed applications     | lîled  | September 8, 20   | 15                                      |  |

- 1) Each undersigned agrees to execute all papers necessary in connection with any application and/or patent for the invention and also to execute separate assignments in connection with such applications and patents as the Assignee may deem necessary.
- 2) Each undersigned agrees to execute all papers necessary in connection with any interference which may be declared concerning any application or patents for the invention and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference
- 3) Each undersigned agrees to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.
- 4) Each undersigned agrees to perform all affirmative nets which may be necessary to obtain, maintain or confirm by reissue or reexamination a grant of a valid United States patent to the Assignee
- 5) Each undersigned authorizes and requests the Commissioner of the U.S. Patent and Trademark Office and other issuing authorities to issue any and all patents resulting from said application(s) to the said Assignee, as Assignee of the entire interest, and covenants that he has full right to convey the entire interest herein assigned, and that he has not executed, and will not execute, any agreement(s) in conflict herewith, and agrees that this assignment is binding on Assignor and Assignor's heirs, successors, assigns and legal representatives.
- 6) Each undersigned hereby grants the firm of OLIFF PLC the power to insert on this assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

#### (13) Declaration

As an above named inventor. I hereby declare that

I believe I am the original inventor or an original joint inventor of a claimed invention (or claimed design) in the above-identified application for which this declaration is being submitted.

The application was made or authorized to be made by me

I have reviewed and understand the contents of the above-identified application, including the claims, and am aware of the duty to disclose to the Office all information known to me to be material to patentability as defined in 37 CFR §1.56

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

PATENT REEL: 036513 FRAME: 0148

| In witness whereof, executed by the undersigned of | n the date(s) opposite the undersigned name(s). |
|--|---|
| · ·  | 1111  |

| Date    | JULY 23, 2015  | Inventor Signature                               | KEITH CHRISTOPHER GOLDFINCH  | (SEAL)       |
|---------|--|--|--|--------------|
| Date    | JULY 83, 2015  | Inventor Signature                               | ANTONIOS KALOCHAIRETIS   | _ (SEAL)     |
| Date    | Very No. 11 years and an address of the state of the stat | Inventor Signature                               |  | _ (SEAL)     |
| Date    |  | Inventor Signature                               | 48. TO THE TOTAL CONTROL OF THE TAXABLE CONTR | _ (SEAL)     |
| neither | This assignment should preferably be signed, then it should be signed before at least two wi   |  | ublic if within the U.S.A. (b) a U.S. Consul if outside there.   | ne U.S.A. If |
| Date    | July 23, 2015  | Witness for<br>Keith<br>Christopher<br>Goldfinch | ANG XIAO TING  |              |
| Date    | JULY 23, 2015  | Witness for<br>Keith<br>Christopher<br>Goldfinch | LEONG WAI KIT  | MURPH        |
| Date    | JULY 23, 2015  | Witness for<br>Antonios<br>Kalochalretis         | MAT MARK HICKLIN   | ۷.           |
|         | 10 × 27 705  | Witness for<br>Antonios                          | ALR DIVERD DEROLL  | l (          |