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| PATENT ASSIGNMENT COVER SHEET |
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EPAS ID: PAT3411109

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|---|---------------------------------|
| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| Zahid M HUSSAIN | 05/27/2015 |
| Nityabh MISHRA | 05/28/2015 |
| Peter T IRELAND | 05/26/2015 |
| 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: | 14748787 |
| CORRESPONDENCE DATA | |
| Fax Number: | (703)836-2787 |
| <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: | 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: | 166811 |
| NAME OF SUBMITTER: | RYAN GUNNING |
| SIGNATURE: | /Ryan Gunning/ |
| DATE SIGNED: | 06/24/2015 |
| Total Attachments: 6 | |
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**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) | Zahid M HUSSAIN | (2) | Nityabh MISHRA |
| (1-8) | Legal Name(s) of Inventor(s) | (3) | Peter T IRELAND | (4) | |
| | | (5) | | (6) | |
| | | (7) | | (8) | |

In consideration of the sum of one dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned, the receipt and sufficiency of which are hereby acknowledged, each undersigned agrees to assign, and hereby does assign, transfer and set over to

| | | | |
|------|----------------------------|------|---|
| (9) | Insert Name of Assignee | (9) | ROLLS-ROYCE PLC |
| (10) | Insert Address of Assignee | (10) | 62 Buckingham Gate, London, SW1E 6AT, Great Britain |

(hereinafter designated as the Assignee) and Assignee's heirs, successors, assigns and legal representatives, the entire right, title and interest for the United States of America as defined in 35 U.S.C. §100, in the invention, and in all applications for patent including any and all provisional, non-provisional, divisional, continuation, international, confirmation, substitute and reissue application(s), and all Letters Patent, extensions, reissues and reexamination certificates that may be granted on the invention known as

| | | | |
|------|---|------|--------------------------------------|
| (11) | Insert Identification such as Title, Case Number, or Foreign Application Number | (11) | Ventilation Inlet |
| | | | (Attorney Docket No. <u>166811</u>) |

| | | | |
|------|---|------|---|
| (12) | Alternative Identification for filed applications | (12) | U.S. Application Number <u>14/748,787</u> |
| | | | filed <u>June 24, 2015</u> |

- 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 acts 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:

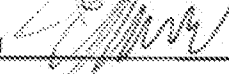
I believe I am the original inventor or an original joint inventor of a claimed invention (or claimed design) in the above-identified application for which this declaration is being submitted.

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.

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

Date 5/27/15 Inventor Signature Zahid M HUSSAIN  (SEAL)

Date _____ Inventor Signature Nityabh MISHRA (SEAL)

Date _____ Inventor Signature Peter T IRELAND (SEAL)

Date _____ Inventor Signature _____ (SEAL)

Date _____ Inventor Signature _____ (SEAL)

Date _____ Inventor Signature _____ (SEAL)

Date _____ Inventor Signature _____ (SEAL)

Date _____ Inventor Signature _____ (SEAL)

This assignment should preferably be signed before: (a) a Notary Public if within the U.S.A., (b) a U.S. Consul if outside the U.S.A. If neither, then it should be signed before at least two witnesses who also sign here:

Date 5/27/2015 Witness for Zahid M HUSSAIN 

Date 5/27/2015 Witness for Zahid M HUSSAIN 

Date _____ Witness for Nityabh MISHRA

Date _____ Witness for Nityabh MISHRA

Date _____ Witness for Peter T IRELAND

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For Application with Filing Date on or after September 16, 2012**

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| Insert | (1) | <u>Zahid M HUSSAIN</u> | (2) | <u>Nityabh MISHRA</u> |
| (1-8) Legal Name(s) | (3) | <u>Peter T IRELAND</u> | (4) | <u></u> |
| of Inventor(s) | (5) | <u></u> | (6) | <u></u> |
| | (7) | <u></u> | (8) | <u></u> |

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| (9) Insert Name of Assignee | (9) | <u>ROLLS-ROYCE PLC</u> |
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(hereinafter designated as the Assignee) and Assignee's heirs, successors, assigns and legal representatives, the entire right, title and interest for the United States of America as defined in 35 U.S.C. §100, in the invention, and in all applications for patent including any and all provisional, non-provisional, divisional, continuation, international, confirmation, substitute and reissue application(s), and all Letters Patent, extensions, reissues and reexamination certificates that may be granted on the invention known as

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| (11) Insert Identification such as Title, Case Number, or Foreign Application Number | (11) | <u>Ventilation Inlet</u> |
| | | (Attorney Docket No. <u>166811</u>) |

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| (12) Alternative Identification for filed applications | (12) | U.S. Application Number <u>14/748,787</u> |
| | | filed <u>June 24, 2015</u> |

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- 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.
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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.

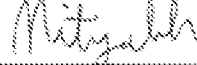
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In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date _____ Inventor Signature Zahid M HUSSAIN (SEAL)

Date 28/MAY/2015 Inventor Signature Nityabh MISHRA  (SEAL)

Date _____ Inventor Signature Peter T IRELAND (SEAL)

Date _____ Inventor Signature _____ (SEAL)

Date _____ Inventor Signature _____ (SEAL)

Date _____ Inventor Signature _____ (SEAL)

Date _____ Inventor Signature _____ (SEAL)

Date _____ Inventor Signature _____ (SEAL)

This assignment should preferably be signed before: (a) a Notary Public if within the U.S.A. (b) a U.S. Consul if outside the U.S.A. If neither, then it should be signed before at least two witnesses who also sign here:

Date _____ Witness for Zahid M HUSSAIN

Date _____ Witness for Zahid M HUSSAIN

Date 28 MAY 2015 Witness for Nityabh MISHRA 

Date 28 MAY 2015 Witness for Nityabh MISHRA 

Date _____ Witness for Peter T IRELAND

Date _____ Witness for Peter T IRELAND

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|-------|---|--|--|
| (1-8) | Insert Legal Name(s) of Inventor(s) | (1) <u>Zahid M HUSSAIN</u> (3) <u>Peter T IRELAND</u> (5) _____ (7) _____ | (2) <u>Nityabh MISHRA</u> (4) _____ (6) _____ (8) _____ |
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Date _____ Inventor Signature Zahid M HUSSAIN (SEAL)

Date _____ Inventor Signature Nityabh MISHRA (SEAL)

Date 26th May 2015 Inventor Signature Peter T IRELAND P.T. Ireland (SEAL)

Date _____ Inventor Signature _____ (SEAL)

Date _____ Inventor Signature _____ (SEAL)

Date _____ Inventor Signature _____ (SEAL)

Date _____ Inventor Signature _____ (SEAL)

Date _____ Inventor Signature _____ (SEAL)

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Date _____ Witness for Zahid M HUSSAIN

Date _____ Witness for Zahid M HUSSAIN

Date _____ Witness for Nityabh MISHRA

Date _____ Witness for Nityabh MISHRA

Date 26th May 2015 Witness for Peter T IRELAND [Signature]

Date 26th May 2015 Witness for Peter T IRELAND [Signature]