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Attorney Docket No. 118512

Please record the attached original document or copy thereof.

1. A. Name of conveying party:
John David BLACK

B. Additional name(s) of conveying party(ies) attached?
 Yes No

2. A. Name and address of receiving party:
ROLLS-ROYCE PLC
65 BUCKINGHAM GATE, LONDON,
SW1E 6AT, ENGLAND

3. A. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other _____

B. Execution Date: January 8, 2004

B. Additional name(s) & address(es) attached?
 Yes No

4. A. If this document is being filed together with a new application, the execution date of the application is: January 8, 2004
B. Patent Application No.(s) 10,765973 C. Patent No.(s) _____
Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: James A. Oliff

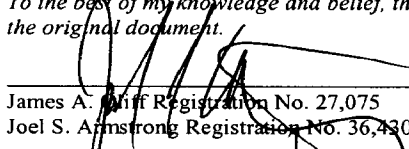
Address: OLIFF & BERRIDGE, PLC
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6. Total number of applications and patents involved: 1

7. A. Total fee (37 CFR 3.41).....\$ 40.00
B. Enclosed (Check No. 150541)

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9. **Statement and signature.**
To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.


James A. Oliff Registration No. 27,075
Joel S. Armstrong Registration No. 36,430
Date: January 29, 2004

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40.00 OF

Total number of pages including cover sheet, attachments, and document: 2

ASSIGNMENT

(1-8) Insert Name(s) of Inventor(s) (1) JOHN DAVID BLACK (2) (3) (4) (5) (6) (7) (8)

In consideration of the sum of one dollar (\$1.00) and other good and valuable considerations paid to each of the undersigned, the undersigned agree(s) 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) 65 BUCKINGHAM GATE, LONDON, SW1E 6AT, ENGLAND

(hereinafter designated as the Assignee) the entire right, title and interest for the United States, its territories, dependencies and possessions, in the invention, and all applications for patent and any Letters Patent which may be granted therefor, known as

(11) Insert Identification, such as Title, Case Number or Foreign Application Number (11) A METHOD AND APPARATUS FOR DETERMINING THE MASS FLOW THROUGH AN ENGINE

(Case No) for which the undersigned has(have) executed an application for patent in the United States of America

(12) Insert Date of Signing of Application (12) on

(13) Alternative Identification for filed applications (13) US application Serial Number filed

1) The undersigned agree(s) to execute all papers necessary in connection with the application and any continuing or divisional applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary.

2) The undersigned agrees(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation or division thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.

3) The undersigned agree(s) 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 of similar agreements.

4) The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.

5) The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patents of the United States resulting from said application or any division or divisions or continuing applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreements in conflict herewith.

6) The undersigned hereby grant(s) the firm of OLIFF AND BERRIDGE 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 and Trademark Office for recordation of this document.

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

Date 8th Jan 2004 Name of Inventor (J D Black) (SEAL)

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

Date 8th Jan 2004 Witness N Farrugia

Date 8 Jan 2004 Witness D. Harvey