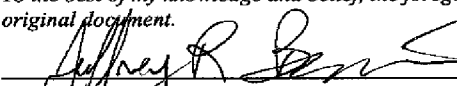


Mail Stop: Assignment Recordation Services Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450		RECORDATION FORM COVER SHEET PATENTS ONLY		U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office	
Attorney Docket No. 145234					
Please record the attached document.					
Total number of pages including cover sheet, attachments, and document: <u>7</u>					
1. A. Name of conveying parties: (1) Andras D HAASZ (2) Alexander Edward Henry FITZHUGH (3) Christopher John BURDEN (4) Jonathan WILSON (5) Samuel Mark SAMPSON (6) Derek CLARKE B. Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			2. A. Name and address of receiving party: ROLLS-ROYCE PLC 65 BUCKINGHAM GATE LONDON, SW1E 6AT GREAT BRITAIN B. Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. A. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other _____ B. Execution Date: <u>(1) 2-19-10; (2) 2-8-10;</u> <u>(3) 3-23-10; (4) 3-16-10; (5) 3-3-10;</u> <u>(6) 3-4-10</u>					
4. A. Patent Application No. <u>12/756,750</u>			B. Patent No.(s) _____ Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
C. Title of Application: <u>TEMPERATURE RESPONSIVE FLUID FLOW CONTROL DEVICE</u>					
5. Name and address of party to whom correspondence concerning document should be mailed: Name: <u>James A. Oliff</u> Address: OLIFF & BERRIDGE, PLC P.O. Box 320850 Alexandria, VA 22320-4850 Phone Number: 703-836-6400 Fax Number: 703-836-2787			6. Total number of applications and patents involved: <u>1</u> 7. Please charge Deposit Account No. 15-0461 the total fee (37 CFR 3.41) in the amount of <u>\$40.00</u> . 8. Credit any overpayment or charge any underpayment to deposit account number 15-0461.		
9. Statement and signature. <i>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.</i> <div style="display: flex; justify-content: space-between; align-items: flex-end;"> <div style="text-align: center;">  James A. Oliff, Registration No. 27,075 Jeffrey R. Bousquet, Registration No. 57,771 </div> <div style="text-align: right;"> Date: <u>April 8, 2010</u> </div> </div>					

CH \$40.00 150461 12756750

ASSIGNMENT

(1-8) Insert Name(s) of Inventor(s)

(1) Andras D HAASZ (4) Jonathan WILSON
 (2) Alexander Edward Henry FITZHUGH (5) Samuel Mark SAMPSON
 (3) Christopher John BURDEN (6) Derek CLARKE

In consideration of the sum of one dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned, 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) 65 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) Temperature Responsive Fluid Flow Control Device
 (Attorney Docket No. 145234)

for which the undersigned has (have) executed an application for patent in the United States of America on even date herewith or

(12) Insert Date of Signing of Application (12) on (1) 2-19-10; (2) 2-8-10; (3) 3-23-10; (4) 3-16-10
(5) 3-3-10; (6) 3-4-10
 (13) Alternative Identification for filed applications (13) U.S. application Serial Number 12/756,750
 filed April 8, 2010

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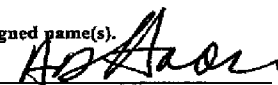
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6) Each undersigned hereby grants the firm of OLIFF & BERRIDGE, PLC the power to insert on this assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

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

Date	<u>19 FEB 2010</u>	Inventor Signature	<u>A Haasz</u>  (SEAL)
Date	_____	Inventor Signature	<u>A Fitzhugh</u> (SEAL)
Date	_____	Inventor Signature	<u>C Burden</u> (SEAL)
Date	_____	Inventor Signature	<u>J Wilson</u> (SEAL)
Date	_____	Inventor Signature	<u>S Sampson</u> (SEAL)
Date	_____	Inventor Signature	<u>D Clarke</u> (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	<u>19 Feb 2010</u>	Witnesses for A Haasz	<u>Matt J. Ellis</u> <u>A. J. [Signature]</u>
Date	_____	Witnesses for A Fitzhugh	_____
Date	_____	Witnesses for C Burden	_____
Date	_____	Witnesses for J Wilson	_____
Date	_____	Witnesses for S Sampson	_____
Date	_____	Witnesses for D Clarke	_____

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(Attorney Docket No. 145234)

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

Date	<u>02-08-2010</u>	Inventor Signature	<u>A Haasz</u>	(SEAL)
Date		Inventor Signature	<u>A Fitzhugh</u>	(SEAL)
Date		Inventor Signature	<u>C Burden</u>	(SEAL)
Date		Inventor Signature	<u>J Wilson</u>	(SEAL)
Date		Inventor Signature	<u>S Sampson</u>	(SEAL)
Date		Inventor Signature	<u>D Clarke</u>	(SEAL)

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Date		Witnesses for A Haasz	
Date	<u>02-08-2010</u>	Witnesses for A Fitzhugh	<u>David Williams</u> <u>P.D. Samuels</u>
Date		Witnesses for C Burden	
Date		Witnesses for J Wilson	
Date		Witnesses for S Sampson	
Date		Witnesses for D Clarke	

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Date _____	Inventor Signature <u>A Haasz</u> (SEAL)
Date _____	Inventor Signature <u>A Fitzhugh</u> (SEAL)
Date <u>23RD MARCH 2010</u>	Inventor Signature <u>C Burden</u> (SEAL)
Date _____	Inventor Signature <u>J Wilson</u> (SEAL)
Date _____	Inventor Signature <u>S Sampson</u> (SEAL)
Date _____	Inventor Signature <u>D Clarke</u> (SEAL)

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Date _____	Witnesses for J Wilson _____
Date _____	Witnesses for S Sampson _____
Date _____	Witnesses for D Clarke _____

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Date _____	Inventor Signature <u>A Haasz</u>	(SEAL)
Date _____	Inventor Signature <u>A Fitzhugh</u>	(SEAL)
Date _____	Inventor Signature <u>C Burden</u>	(SEAL)
Date <u>03/16/10</u>	Inventor Signature <u>J Wilson</u> <i>J Wilson</i>	(SEAL)
Date _____	Inventor Signature <u>S Sampson</u>	(SEAL)
Date _____	Inventor Signature <u>D Clarke</u>	(SEAL)

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Date _____	Witnesses for A Fitzhugh _____
Date _____	Witnesses for C Burden _____
Date <u>03/16/10</u>	Witnesses for J Wilson <u>Shirley Road & Neal R. ASHBY R. Ashby</u>
Date _____	Witnesses for S Sampson _____
Date _____	Witnesses for D Clarke _____

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(11) <u>Temperature Responsive Fluid Flow Control Device</u>
(Attorney Docket No. <u>145234</u>)

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(13) Alternative Identification for filed applications

(13) U.S. application Serial Number <u>12/756,750</u> filed <u>April 8, 2010</u>

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Date	_____	Inventor Signature	<u>J Wilson</u>	(SEAL)
Date	_____	Inventor Signature	<u>S Sampson</u>	(SEAL)
Date	<u>4 March 2010</u>	Inventor Signature	<u>D Clarke</u>	(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	_____	Witnesses for A Haasz	_____
Date	_____	Witnesses for A Fitzhugh	_____
Date	_____	Witnesses for C Burden	_____
Date	_____	Witnesses for J Wilson	_____
Date	_____	Witnesses for S Sampson	_____
Date	<u>4 March 2010</u>	Witnesses for D Clarke	<u>176. Mampff Adam Clarke</u>

PATENT

RECORDED: 04/08/2010

REEL: 024203 FRAME: 0773