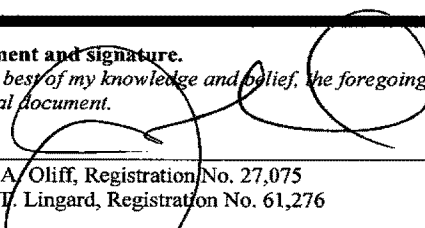


<b>Mail Stop:</b> <b>Assignment Recordation Services</b> <b>Director of the U.S. Patent</b> <b>and Trademark Office</b> <b>P.O. Box 1450</b> <b>Alexandria, VA 22313-1450</b>		<b>RECORDATION FORM COVER SHEET</b> <b>PATENTS ONLY</b>		<b>U.S. DEPARTMENT OF COMMERCE</b> <b>Patent and Trademark Office</b>	
				<b>Attorney Docket No. <u>154634</u></b>	
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) Fabrizio SCARPA 2) Christopher SMITH 3) Wayne MILLER 4) Kenneth EVANS 5) Ramesh RAJASEKARAN  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 &amp; 5) July 27, 2012</u> <u>2-4) July 31, 2012</u>					
4. A. Patent Application No. <u>13/580,245</u>		B. Patent No.(s)		Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
C. Title of Application: <u>VIBRATION DAMPING STRUCTURES</u>					
5. Name and address of party to whom correspondence concerning document should be mailed: Name: <u>James A. Oliff</u>  Address: <b>OLIFF &amp; BERRIDGE, PLC</b> <b>P.O. Box 320850</b> <b>Alexandria, VA 22320-4850</b> <b>Phone Number: 703-836-6400</b> <b>Fax Number: 703-836-2787</b>			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. <b>Statement and signature.</b> <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>   _____ James A. Oliff, Registration No. 27,075 Justin T. Lingard, Registration No. 61,276					
Date: <u>August 21, 2012</u>					

CH \$40.00 150461 13580245

### ASSIGNMENT

- |   |  |   |  |
|---|--|---|--|
| (1-8)   | <b>Insert Name(s) of Inventor(s)</b>   | (1) <u>FABRIZIO SCARPA</u><br>(2) <u>CHRISTOPHER SMITH</u><br>(3) <u>WAYNE MILLER</u><br>(4) <u>KENNETH EVANS</u>   | (5) <u>RAMESH RAJASEKARAN</u><br>(6) _____<br>(7) _____<br>(8) _____ |
| 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)   | <b>Insert Name of Assignee</b>   | (9) <u>ROLLS-ROYCE PLC</u>  |  |
| (10)  | <b>Insert Address of Assignee</b>  | (10) <u>65 BUCKINGHAM GATE, LONDON, SW1E 6AT, GREAT BRITAIN</u><br>(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)  | <b>Insert Identification such as Title, Case Number, or Foreign Application Number</b> | (11) <u>VIBRATION DAMPING STRUCTURES</u><br><u>4542 VJAY</u><br>(Attorney Docket No. _____ )  |  |
| for which the undersigned has (have) executed an application for patent in the United States of America on even date herewith or  |  |   |  |
| (12)  | <b>Insert Date of Signing of Application</b>   | (12) on _____   |  |
| (13)  | <b>Alternative Identification for filed applications</b>                               | (13) U.S. application Serial Number _____<br>filed _____  |  |

1) Each undersigned agrees to execute all papers necessary in connection with any application and any continuing, divisional or reissue applications for the invention, and any patent(s) issuing thereon, 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 continuation or division thereof, or any patent or reissue application based thereon, 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 to issue any and all Letters Patents of the United States 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 agreements in conflict herewith, and agrees that this assignment is binding on him and his heirs, successors, assigns and legal representatives.

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>27/07/2012</u>	Inventor Signature	<u>Fabrizio Scarpa</u> FABRIZIO SCARPA	(SEAL)
Date	_____	Inventor Signature	<u>CHRISTOPHER SMITH</u>	(SEAL)
Date	_____	Inventor Signature	<u>WAYNE MILLER</u>	(SEAL)
Date	_____	Inventor Signature	<u>KENNETH EVANS</u>	(SEAL)
Date	_____	Inventor Signature	<u>RAMESH RAJASEKARAN</u>	(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	<u>27/07/2012</u>	Witness For Fabrizio Scarpa	<u>Paige Spicer</u> PAIGE SPICER
Date	<u>27/07/2012</u>	Witness For Fabrizio Scarpa	<u>K. Drury</u> KATIE DRURY
Date	_____	Witness For Christopher Smith	_____
Date	_____	Witness For Christopher Smith	_____
Date	_____	Witness For Wayne Miller	_____
Date	_____	Witness For Wayne Miller	_____
Date	_____	Witness For Kenneth Evans	_____
Date	_____	Witness For Kenneth Evans	_____
Date	_____	Witness For Ramesh Rajasekaran	_____
Date	_____	Witness For Ramesh Rajasekaran	_____

## ASSIGNMENT

- (1) FABRIZIO SCARPA (5) RAMESH RAJASEKARAN
- (1-8) Insert Name(s) of Inventor(s) (2) CHRISTOPHER SMITH (6) \_\_\_\_\_
- (3) WAYNE MILLER (7) \_\_\_\_\_
- (4) KENNETH EVANS (8) \_\_\_\_\_
- 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) VIBRATION DAMPING STRUCTURES  
4542 VJAY  
(Attorney Docket No. \_\_\_\_\_ )  
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 \_\_\_\_\_
- (13) Alternative Identification for filed applications (13) U.S. application Serial Number \_\_\_\_\_  
filed \_\_\_\_\_

1) Each undersigned agrees to execute all papers necessary in connection with any application and any continuing, divisional or reissue applications for the invention, and any patent(s) issuing thereon, and also to execute separate assignments in connection with such applications and patents as the Assignee may deem necessary.

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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	_____	Inventor Signature	FABRIZIO SCARPA	(SEAL)
Date	07/31/12	Inventor Signature	CHRISTOPHER SMITH <i>C. Smith</i>	(SEAL)
Date	07/31/12	Inventor Signature	WAYNE MILLER <i>W. Miller</i>	(SEAL)
Date	07/31/12	Inventor Signature	KENNETH EVANS <i>K. Evans</i>	(SEAL)
Date	_____	Inventor Signature	RAMESH RAJASEKARAN	(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 Fabrizio Scarpa	_____
Date	_____	Witness	For Fabrizio Scarpa	_____
Date	07/31/12	Witness	For Christopher Smith	<i>A.C. Pond</i>
Date	07/31/12	Witness	For Christopher Smith	<i>[Signature]</i>
Date	07/31/12	Witness	For Wayne Miller	<i>A.C. Pond</i>
Date	07/31/12	Witness	For Wayne Miller	<i>[Signature]</i>
Date	07/31/12	Witness	For Kenneth Evans	<i>[Signature]</i>
Date	07/31/12	Witness	For Kenneth Evans	<i>[Signature]</i>
Date	_____	Witness	For Ramesh Rajasekaran	_____
Date	_____	Witness	For Ramesh Rajasekaran	_____

### ASSIGNMENT

- |   |   |   |  |
|---|---|---|--|
| (1-8)   | Insert Name(s) of Inventor(s)   | (1) <u>FABRIZIO SCARPA</u><br>(2) <u>CHRISTOPHER SMITH</u><br>(3) <u>WAYNE MILLER</u><br>(4) <u>KENNETH EVANS</u>   | (5) <u>RAMESH RAJASEKARAN</u><br>(6) _____<br>(7) _____<br>(8) _____ |
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| (9)   | Insert Name of Assignee   | (9) <u>ROLLS-ROYCE PLC</u>  |  |
| (10)  | Insert Address of Assignee  | (10) <u>65 BUCKINGHAM GATE, LONDON, SW1E 6AT, GREAT BRITAIN</u><br>(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) <u>VIBRATION DAMPING STRUCTURES</u><br><u>4542 VJAY</u><br>(Attorney Docket No. _____ )<br>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 _____   |  |
| (13)  | Alternative Identification for filed applications                               | (13) U.S. application Serial Number _____<br>filed _____  |  |

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

Date	Inventor Signature	(SEAL)
_____	FABRIZIO SCARPA	_____
Date	Inventor Signature	(SEAL)
_____	CHRISTOPHER SMITH	_____
Date	Inventor Signature	(SEAL)
_____	WAYNE MILLER	_____
Date	Inventor Signature	(SEAL)
_____	KENNETH EVANS	_____
Date	Inventor Signature	(SEAL)
27/July/2012	Ramesh Rajasekaran	_____
_____	RAMESH RAJASEKARAN	_____
Date	Inventor Signature	(SEAL)
_____	_____	_____
Date	Inventor Signature	(SEAL)
_____	_____	_____
Date	Inventor Signature	(SEAL)
_____	_____	_____

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Date	Witness	_____
_____	For Fabrizio Scarpa	_____
Date	Witness	_____
_____	For Fabrizio Scarpa	_____
Date	Witness	_____
_____	For Christopher Smith	_____
Date	Witness	_____
_____	For Christopher Smith	_____
Date	Witness	_____
_____	For Wayne Miller	_____
Date	Witness	_____
_____	For Wayne Miller	_____
Date	Witness	_____
_____	For Kenneth Evans	_____
Date	Witness	_____
_____	For Kenneth Evans	_____
Date	Witness	_____
27 JULY 2012.	For Ramesh Rajasekaran	_____
Date	Witness	_____
27/7/12	For Ramesh Rajasekaran	Alan Stafford.