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Mail Stop:RECORDATION FOIAssignment Recordation ServicesRECORDATION FOIDirector of the U.S. PatentPATENTand Trademark OfficeP.O. Box 1450Alexandria, VA 22313-1450PATENT	
	Attorney Docket No. <u>141392</u>
Please record the attached document. Total number of pages including cover sheet, attachments, and docu	iment: <u>3</u>
<ol> <li>A. Name of conveying parties:         <ol> <li>Matthew Lee STRANGE</li> <li>Frank Russell WATSON</li> <li>Robert Andre BARKER</li> <li>Neil Richard HORN</li> <li>Additional name(s) of conveying party(ies) attached?</li> </ol> </li> </ol>	<ul> <li>2. A. Name and address of receiving party:</li> <li>ROLLS-ROYCE PLC</li> <li>65 BUCKINGHAM GATE</li> <li>LONDON SW1E 6AT</li> <li>GREAT BRITAIN</li> <li>B. Additional name(s) &amp; address(es) attached?</li> </ul>
<ul> <li>3. A. Nature of conveyance:</li> <li> Assignment □ Merger Security Agreement □ Change of Name Other</li></ul>	
4. A. Patent Application No. <u>12/312,177</u>	B. Patent No.(s)
Additional numbers atta	uched? 🔲 Yes 🛛 No
C. Title of Application: <u>COUPLING</u>	
<ol> <li>Name and address of party to whom correspondence concerning document should be mailed:</li> </ol>	6. Total number of applications and patents involved: 1
Name: James A. Oliff	<ol> <li>Please charge Deposit Account No. 15-0461 the total fee (37 CFR 3.41) in the amount of \$40.00.</li> </ol>
Address: OLIFF & BERRIDGE, PLC P.O. Box 320850 Alexandria, VA 22320-4850 Phone Number: 703-836-6400 Fax Number: 703-836-2787	<ol> <li>Credit any overpayment or charge any underpayment to deposit account number 15-0461.</li> </ol>
and L Sum and A. Oliff, Registration No. 27,075	tion is true and correct and any attached copy is a true copy of the Date: October 6, 2009
Warrett L. Silver, Registration No. 60,239	

## PATENT REEL: 023335 FRAME: 0083

## OLIFF & BERRIDGE, PLC

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		ASSIGNINUM		
		(1) MATTHEW LEE STRANGE (5) ADRIAN JAMES MILLER		
(1-8)	Insert Name(s) of Inventor(s)	(2) FRANK RUSSELL WATSON (6)		
		(3) <u>ROBERT ANDRE BARKER</u> (7)		
		(4) NEIL RICHARD HORN (8)		
		In consideration of the sum of one dollar (\$1.00) and other good and valuable consideration paid to each of the ondersigned, each undersigned agrees to assign, and hereby does assign, transfer and set over to		
(9) Insert Name of Assignee (10) Insert Address of Assignee		(9) ROLLS-ROYCE PLC		
		(10) <u>65 BUCKINGHAM GATE, LONDON, SWIE 6AT, GREAT BRITAIN</u> (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	(11) <u>COUPLING</u>		
	such as Title, Case Number, or Foreign Application Number	3805 NJR		
		(Attorney Docket No. 141392		
		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)&(5)4-3-09; (3)9-20-09; (4)3-6-09		
(13)	Alternative Identification for filed applications	(13) U.S. application Serial Number 12/312,177		
		filed October 6, 2009		

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.

 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 palent 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 Assignce, as Assignce 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	APRIL 3 2009	Inventor Signature	Maithew Lee Strange Matthew L. Strange (SEAL)
Date	APRIL 3 2009	Inventor Signature	Frank Russell Watson Trenk R. Walker (SEAL)
Date		Inventor Signature	Robert Andre Barker (SEAL)
Date	MARCH 6 1999 AR	Inventor Signature	Neil Richard Horn Net R. Horn . (SEAL)
Date	APRIL 3 2009	Inventor Signature	Adrian James Miller Adrian J. Mille (SEAL)
Date		Inventor Signature	(SEAL)
Date		Inventor Signature	(SEAL)
Date		Inventor Signature	(SEAL)
neither, Date Date	This assignment should preferably be sign then it should be signed before at least two April 3 2009 Spril 3 2009	i withesses who also sign her	ic if within the U.S.A. (b) a U.S. Consul if outside the U.S.A. If en and house Robert for an and a second state of the U.S.A. If States Simen Bones.
			PATENT

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### ASSIGNMENT

(1-8)	、 .	(1) <u>MATTHEW LEE STRANGE</u> (5) <u>ADRIAN JAMES MILLER</u>
	Name(s)	(2) FRANK RUSSELL WATSON (6)
	of Inventor(s)	(3) <u>ROBERT ANDRE BARKER</u> (7)
		(4) <u>NEIL RICHARD HORN</u> (8)
(9)	lusert Name of	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
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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 Assignce, 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		netab
	Inventor Signature	
Date	Matthew Lee Strange	(SEAL)
	Inventor Signature	
Date 20/9/09	Inventor Signature	(SEAL)
Date	<u>Robert Andre Barker</u> Inventor Signature	
Date	Neil Richard Horn	(SEAL)
	Inventor Signature	(SEAL)
Date	Adrian James Miller	(36AL)
Date	Inventor Signature	(SEAL)
	Inventor Signature	<b>_</b> ,
Date	Inventor Signature	
This assignment should preferably F		(SEAL)
neither, then it should be signed before at lea	be signed before: (a) a Notary Public if within the U.S.A. (b) a U.S st two witnesses who also sign here: $\sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{i=1$	: Consul if outside the U.S.A. If
Date 20 <u>Sep 2009</u>		
	·	PATENT
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