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10-18-2005



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U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

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Please record the attached original document or copy thereof.  1. A. Name of conveying parties:  1. Stephen Yue Cheung PANG 2. Patrick William BEST 3. Alan Stuart MARCH 4. (Christopher Michael MORGAN 5.) David Alan CHABOTY  B. Additional name(s) of conveying party(ies) attached?    Yes   No      November   Assignment   Merger   Merger   Merger   Yes   No			Attorney Docket No. 121445						
1) Stephen Yue Cheung PANG 2) Patrick William BEST 3) Alan Stuart MARCH 4) Christopher Michael MORGAN 5) David Alan CHABOTY  B. Additional name(s) of conveying party(ies) attached?		Please record the attached orig	inal document or copy thereof.						
3. A. Nature of conveyance:  Assignment	1.	<ol> <li>Stephen Yue Cheung PANG</li> <li>Patrick William BEST</li> <li>Alan Stuart MARCH</li> <li>Christopher Michael MORGAN</li> </ol>	ROLLS-ROYCE PLC 65 BUCKINGHAM GATE LONDON SW1E 6AT						
Assignment	•								
A. Patent Application No.(s) B. Patent No.(s) Additional numbers attached?	3.	<ul> <li>✓ Assignment</li></ul>	· · · · · · · · · · · · · · · · · · ·						
C. Title of Application: METHOD AND APPARATUS FOR VERIFYING CONNECTIVITY OF AN INSTRUMENTATION SYSTEM  5. Name and address of party to whom correspondence concerning document should be mailed:  6. Total number of applications and patents involved: 1  7. A. Total fee (37 CFR 3.41)\$ 40.00  B. Enclosed (Check No. 171757)  Address: OLIFF & BERRIDGE, PLC P.O. Box 19928  8. Credit any overpayment or charge any underpayment to deposit account number 15-0461.	4.		I						
concerning document should be mailed:  Name: James A. Oliff  7. A. Total fee (37 CFR 3.41)\$ 40.00  B. Enclosed (Check No. 171757)  Address: Oliff & Berridge, PLC P.O. Box 19928  8. Credit any overpayment or charge any underpayment to deposit account number 15-0461.	IN	C. Title of Application: METHOD AND APPARATU							
B. Enclosed (Check No. 171757)  Address: OLIFF & BERRIDGE, PLC P.O. Box 19928  8. Credit any overpayment or charge any underpayment to deposit account number 15-0461.	5.	Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: 1						
P.O. Box 19928 deposit account number 15-0461.		Name: James A. Oliff							
		P.O. Box 19928							
	9.	Statement and signature. To the best of my knowledge and belief, the foregoing inform the original document.	ation is true and correct and any attached copy is a true copy o						
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 Thomas J. Pardini Registration No. 30,411 Total number of pages in	Date: October 11, 2005  ncluding cover sheet, attachments, and document: 6						

**PATENT** 

**REEL: 017086 FRAME: 0572** 

		(1)	Stephen Yue Cheung PANG	(5)	David Alan CHABOTY	
(1-8)	Insert	(2)	Patrick William BEST	(6)		
	Name(s) of inventor(s)	(3)	Alan Stuart MARCH	(7)		
		(4)	Christopher Michael MORGAN	(8)		
			n of the undersigned, each undersigne		and other good and valuable consideration ssign, and hereby does assign, transfer as	
(9)	Insert Name of Assignee	(9)	ROLLS-ROYCE PLC			
(10)	Insert Address of Assignee	(10)	65 Buckingham Gate, London SWI		· · · · · · · · · · · · · · · · · · ·	
		(herein the ent invent contin	nafter designated as the Assignee) and a tire right, title and interest for the Unite tion, and in all applications for patent in uation, international, confirmation, sub-	Assignee's he ed States of A noluding any ostitute and re	irs, successors, assigns and legal representance as defined in 35 U.S.C. §100, in the and all provisional, non-provisional, divisions application(s), and all Letters Patent, by be granted on the invention known as	ie ional,
·(11)	Insert	(11)	METHOD AND APPARATUS FO	R VERIFYII	NG CONNECTIVITY OF AN	
,	Identification such as Title, Case		INSTRUMENTATION SYSTEM			
ŧ	Number, or Foreign Application Number	(Attor	ney Docket No. 121445			)
	••	for wh	nich the undersigned has (have) execu		ation for patent in the United States of A	
		on eve	en date herewith or			
(12)	Insert Date of Signing of	(12)	on			
	Application				•	
(13)	Alternative	(13)	U.S. application Serial Number	······································		
	Identification for filed applications	filed				
reexami Patents full right and agr	3) Each undersigned agree or provisions of the Internation 4) Each undersigned agree ination a grant of a valid Un 5) Each undersigned authof the United States resulting to convey the entire intereses that this assignment is b 6) Each undersigned here	es to exectional Con- es to perfeited State orizes and ing from sa est herein binding on by grants	vention for Protection of Industrial Prorm all affirmative acts which may be a patent to the Assignee. I requests the Commissioner of the Util application(s) to the said Assignee assigned, and that he has not execute him and his heirs, successors, assign the firm of OLIFF & BERRIDGE, PLC	form any act roperty or sind the control of the con	which may be necessary in connection wantler agreements.  Obtain, maintain or confirm by reissue of Trademark Office to issue any and all Les of the entire interest, and covenants that of execute, any agreements in conflict here.	etters t he has rewith,
	In witness whereof, execu	uted by t	he undersigned on the date(s) oppo	site the und	mignes name(s).	
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neither	, then it should be signed be	fore at lea	ist two withe as who also sign here:		U.S.A. (b) a U.S. Consul if outside the U	
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REEL: 017086 FRAME: 0573

		(I) Stepl	hen Yue Cheung PANG (5) David Alan CHABOTY
(1-8)	Insert	(2) Patri	ck William BEST (6)
	Name(s) of Inventor(s)	(3) <u>Alan</u>	Stuart MARCH (7)
		(4) Chris	stopher Michael MORGAN (8)
			sideration of the sum of one dollar (\$1.00) and other good and valuable consideration paid a undersigned, each undersigned agrees to assign, and hereby does assign, transfer and set
(9)	Insert Name of Assignee	(9) ROL	LS-ROYCE PLC
(10)	Insert Address of Assignee	(10) 65 B	Buckingham Gate, London SWIE 6AT, Great Britain
		the entire right invention, and continuation, extensions, re	designated as the Assignee) and Assignee's heirs, successors, assigns and legal representatives, the hot interest for the United States of America as defined in 35 U.S.C. §100, in the d in all applications for patent including any and all provisional, non-provisional, divisional, international, confirmation, substitute and reissue application(s), and all Letters Patent, eissues and reexamination certificates that may be granted on the invention known as
(11)	Insert	(11) <u>ME</u>	THOD AND APPARATUS FOR VERIFYING CONNECTIVITY OF AN
	Identification such as Title, Case	INS	TRUMENTATION SYSTEM
	Number, or Foreign Application Number	(Attorney Do	ocket No. 121445 )
	••	for which the	e undersigned has (have) executed an application for patent in the United States of America
		on even date	herewith or
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(13)	Alternative	(13) U.S.	application Serial Number
	Identification for filed applications	filed	
reexam  Patents full rigl and agr	3) Each undersigned agree or provisions of the Internation 4) Each undersigned agree ination a grant of a valid Un 5) Each undersigned authof the United States resulting to convey the entire intereses that this assignment is b 6) Each undersigned here cation that may be necessary	es to execute all ional Convention es to perform all ited States pater orizes and requeng from said appears herein assignoinding on him a by grants the fin	dence and going forward with such interference.  papers and documents and perform any act which may be necessary in connection with in for Protection of Industrial Property or similar agreements.  affirmative acts which may be necessary to obtain, maintain or confirm by reissue or int to the Assignee.  issts the Commissioner of the U.S. Patent and Trademark Office to issue any and all Letters idication(s) to the said Assignee, as Assignee of the entire interest, and covenants that he has ed, and that he has not executed, and will not execute, any agreements in conflict herewith, and his heirs, successors, assigns and legal representatives.  In of OLIFF & BERRIDGE, PLC the power to insert on this assignment any further order to comply with the rules of the United States Patent and Trademark Office for
recorda	tion of this document.  In witness whereof, exec	uted by the und	lersigned on the date(s) opposite the undersigned name(s).
Date		•	Inventor Signature (SEA1)
Date	× 1ST NOV 7	-004	Inventor Signature Colour (SEAL)
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Date			Inventor Signature (SEAL)
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neither			ned before: (a) a Notary Public if within the U.S.A. (b) a U.S. Consul if outside the U.S.A. If witnesses who also sign here:
	× Ist you 20		Witness × Bill Blunch um
Date	xlet Now 2	rr Ma	DATENT

PATENT REEL: 017086 FRAME: 0574

(1-9) Name(s) of lawestor(c) (3) Alan Staart MARCH (7) (4) Christopher Michael MORGAN (8) In consideration of the sum of one dollar (\$1,00) and other good and valuable consideration pain to each of the undersigned, each undersigned agrees to assign, and hereby does assign, transfer and as over to control of the sum of the sum of one dollar (\$1,00) and other good and valuable consideration pain to each of the undersigned, each undersigned agrees to assign, and hereby does assign, transfer and as over to control of the sum o		_	(1) <u>Ste</u>	phen Yue Cheung PANG	(5)	David Alan CHABOTY	<del></del>
of lavestor(s)  (4) Alan Suart MARCH (7)  (5) In consideration of the sum of one dollar (\$1.00) and other good and valuable consideration pair to each of the undersigned, each undersigned agrees to assign, and hereby does assign, transfer and so over to larger (10) Inter-Address of Assignee  (10) Inter-Address of Assignee  (10) Assignee  (11) METHOD AND APPARATUS FOR VERIFYING CONNECTIVITY OF AN Internative to even due herewith or  (11) Insert Date of  (12) Insert Date of  (13) Alternative  (14) Insert Date of  (15) Insert Date of  (16) Assignee in even was assigned as assignee as a secure of the assignee assignment in connection with surplications and papers assigneed as a secure of the Assignee application for the invention, and only patential or constitution of division thereor, or any patent or include assignment in connection with surplications and patents as the Assignee may deem excessary.  (13) Each undersigned agrees to execute all papers necessary in connection with any application and any continuing, divisional or reviews application for the invention, and to any patentic or division thereor, or any patent or include assignment as in connection with surplications and patents as the Assignee may deem excessary.  (13) Each undersigned agrees to execute all papers and decaused with such interference which may be necessary in connection with such interference which may be	(1-8)	Insert	(2) <u>Pa</u>	rick William BEST	(6)		
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to each of the undersigned, each undersigned agrees to assign, and hereby does assign, transfer and a cover to  Assignee  (10) Insert Name of Assignee Insert Address of Insert Address of Insert Address of Assignee  (10) 65 Buckingham Gate, London SWI E 6AT, Great Britain  (herrinalter designated as the Assignee) and Assignee's beins, auccessors, assigns and legal representatives the entire right, title and interest for the United States of America as deficien 3 for U.S. C. (10), in the invention, and in all applications for patent including any and all provisional, non-provisional, divisional, continuation, international, confirmation, substitute and reissue applications, and all terest patent, extensions, reissues and recvanimation certificates that may be granted on the invention known as exch as Title. Case  Number, or Foreign Application Number  (11) Insert Date of Signing of Application Number  (12) Insert Date of Signing of (12) on Application Number Internative Interna			(4) <u>Ch</u>	ristopher Michael MORGAN	(8) _		
(10) Insert Address of Assignee  (10) O 65 Buckingham Gate, London SW1E 6AT, Great Britain  (herrinafter designated as the Assignee) and Assignee's heirs, successors, assigns and legal representative the entire right, title and interest for the United States of America as defined in 3D LOS.C. § 100, in the invention, and in all applications for patent including any and all provisional, divisional, continuation, international, confirmation, substitute and reissue application(s), and all Letters Patent, extensions, resissues and recamination certificates that may be grammed on the invention and continuation international, confirmation, substitute and reissue application on the service on even date herewith or Stranger Application Number (Antomey Docket No. 121445)  [11] Insert Date of Stephen of Application Number (Antomey Docket No. 121445)  [12] Insert Date of Stephen of Application (Insert Date on even date herewith or on even date herewith or (Insert Date on even da		·	to each of t				
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(hereinafter designated as the Assignee's heirs, successors, assigns and legal representative the entire right, title and interest for the United States of America as defined in 31 U.S.C. §100, in the invention, and in all applications for peater including any and all provisional, nonstrosonal, divisional, continuation, international, confirmation, substitute and reissue applications, and all Letters Patent, extensions, resisues and recamination certificates that may be granted on the invention associated and the provisional programments of the provisional provisional, continuation, international, confirmation, substitute and reissue application on the normal continuation and patents are recamination experiments that may be granted on the invention and patents are recamination and the provisional provisional programments are recaminated and patents are recamination and patents as the Assignee may deem necessary.  2. 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 applications or the invention, and nor obstitution or continuation or division thereof, or any patent or reissue application based thereon, for the invention, and to cooperate with 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 any interference which may be declared concerning any applications of the invention of Protection of Protection of Industrial Property or similar agreements.  4) Each undersigned agrees to execute all papers and documents and perform any act which may be	(10)		(10) 65	Buckingham Gate, London SW1	E 6AT, Great	Britain	
Identification such as Title, Cast Number, or Foreign Application Number (Attorney Docket No. 121445  for which the undersigned has (have) executed an application for patent in the United States of American even date herewith or  (12) Insert Date of Signing of (12) on Application Application Application (13) Alternative Identification for filed applications 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 and excessary 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 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 the Assignee in every way possible in obtaining evidence and going forward with such interference.  4) Each undersigned agrees to execute all papers and documents and perform any act which may be necessary in connection with the Assignee in every way possible in obtaining evidence and going forward with such interference.  4) Each undersigned agrees to execute all papers and documents and perform any act which may be necessary in connection with any interference.  5) Each undersigned agrees to execute all papers and documents and perform any act which may be necessary in connection with any interference.  6) Each undersigned agrees to execute all papers and documents and perform any act which may be necessary or desirable to execute, and with not execute, any agreements in conflict berewit and agrees that this assignment is binding on him		•	(hereinafter the entire ri invention, a continuatio	designated as the Assignee) and A ght, title and interest for the United and in all applications for patent incon, international, confirmation, subs	ssignee's hei States of Ar cluding any a titute and rei	rs, successors, assigns and legal nerica as defined in 35 U.S.C. § nd all provisional, non-provision ssue application(s), and all Lette	100, in the nal, divisional, ers Patent,
Sumber, or Foreign Application Number  (Attorney Docket No. 121445  for which the undersigned has (have) executed an application for patent in the United States of American on even date herewith or  (12) Insert Date of Signing of (12) on Application  (13) Alternative (13) U.S. application Serial Number Leterification for filed applications filed  (13) Leach undersigned agrees to execute all papers necessary in connection with any application and any continuing, divisional or reissue applications for the invention, and any patently (i) is using thereon, and also to exceute separate assignments in connection with such applications or reissue applications for the invention, and any patently (i) is using thereon, and also to exceute 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 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 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 execute all papers and documents and perform any act which may be necessary or about any activation of the states and agreements and application to be undersigned application of the U.S. Patent and Trademark Office to issue any and all Letter full right to convey the entire interest herein assigned, and that he has not	(11)	Insert	(11) <u>M</u>	ETHOD AND APPARATUS FOR	VERIFYIN	G CONNECTIVITY OF AN	
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		(1)	Stephen Yue Cheung PANG	(5)	David Alan CHABOTY	
(1-8)	Insert	(2)	Patrick William BEST	(6)		
	Name(s) of Inventor(s)	(3)	Alan Stuart MARCH	(7)		
		(4)	Christopher Michael MORGAN	(8)		
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(9)	Insert Name of Assignee	(9)	ROLLS-ROYCE PLC			
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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.  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 siling 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 nay 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 Inventor Signature (SEAL)  Date Inventor Signature (SEAL)  This assignment should preferably be signed before: (a) a Notary Public if wi			filed				
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**RECORDED: 10/11/2005** 

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