RECORDATION SOLVER SHIT         TO THE HONORABLE COMMISSIONER OF         SIR: PLEASE RECORD THE ATTACHED O.         101338295         .REOF.         1. NAME OF CONVEYING PARTY(IES) (ASCONOR(S))(*)         1. ANME OF CONVEYING PARTY(IES) (ASCONOR(S))(*)         2. Anthony Gordon Razzell         ADDITIONAL NAME(S) OF CONVEYING PARTY(IES) (ASCONOR(S))(*)         3. Anthony Gordon Razzell         ADDITIONAL NAME(S) OF CONVEYING PARTY(IES) ATTACHED?         YES         NO         2. PARTY(IES) (ASSIGNEE(S)) RECEIVING INTEREST:         NAME: Rolls-Royce plc, a British Company         ADDRESS: 65 Buckingham Gate, London SW1E 6AT, England         ADDITIONAL NAME(S) & ADDRESS(ES) ATTACHED?         YES       NO         3. NATURE OF CONVEYANCE (DOCUMENT):         (Submit herewith only one document)         YER 15 200         YER 15 200         YER 25 200         ASSIGNMENT OF         X WHOLE         PART INTEREST         ASSIGNMENT OF         X SSIGNMENT OF         X SSIGNMENT OF         X OTHER         A ASSIGNMENT OF         X WHOLE         YER 15 100         YER 16 100         YER 16 100	4.25.00 BOX ASSIGNMENTS		1-28-2000	DO NOT US	E FOR TRADEMA
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1. Edwin Gramvile Buller 2. Anthony Gordon Razzell NR 1, 5 700 4. Paul Andrew Doleman 4. E. Insan All Hussein Al-Dowery 4. Paul Andrew Doleman 4. E. Insan All Hussein Al-Dowery 4. Paul Andrew Doleman 4. E. Insan All Hussein Al-Dowery 4. Paul Andrew Doleman 4. E. Insan All Hussein Al-Dowery 4. Paul Andrew Doleman 4. E. Insan All Hussein Al-Dowery 4. Paul Andrew Doleman 4. E. Insan All Hussein Al-Dowery 4. Paul Andrew Doleman 4. E. Insan All Hussein Al-Dowery 4. Paul Andrew Doleman 4. E. Insan All Hussein Al-Dowery 4. Paul Andrew Doleman 4. E. Insan All Hussein Al-Dowery 4. Paul Andrew Doleman 4. E. Insan All Hussein Al-Dowery 4. Paul Andrew Doleman 4. E. Insan All Hussein Al-Dowery 4. Paul Andrew Doleman 4. E. Insan All Hussein Al-Dowery 4. Paul Andrew Doleman 4. E. Insan All Hussein Al-Dowery 4. Paul Andrew Doleman 4. E. Insan All Hussein Al-Dowery 4. Paul Andrew Doleman 4. E. Insan All Hussein Al-Dowery 4. Paul Andrew Doleman 4. Execution All Andrew Doleman 4. Execution Date(S) & ADDRESS(ES) ATTACHED 4. EXECUTION DATE(S) ON THE DECLARATION IF FILED HEREWITH: (NOTE: IF DATES 1 + DIFFER 5. Set ATT11 5. APPL NO.(S) OR PAT NO.(S). OTHERS ON ADDITIONAL SHEET(S) attached? 5. Name & Address of Patty to Whom Correspondence 6. NUMBER INVOLVED: APPLNS 1 + PATS 1 = TOTAL 1 7. AMOUNT OF FEE ENCLOSED: (Code 581) 7		INOTILED ON		REOF.	
2. Anthony Gordon Razzell AR 2 5 2000 ADDITIONAL NAME(S) OF CONVEYING PROVING PROVING 14 Paul Andrew Doleman 45. Insan Al Hussein Al-Dowery 45. Insan Al-Alex Alex 45. Insan Alex		TY(IES) (ASSONOR(S))	SC		
2       PARTY([ES) (ASSIGNEE(S)) RECEIVING INTEREST:         VAME: Rolls-Royce plc, a British Company         ADDRESS: 65 Buckingham Gate, London SW1E 6AT, England         ADDITIONAL NAME(S) & ADDRESS(ES) ATTACHED?       YES         X       XNO         3. NATURE OF CONVEYANCE (DOCUMENT):       (Stomit herewith giny one document for recordation multiple copies of same Assignment signed by different inventors is one document;         X       WARDE       PART INTEREST         X       ASSIGNMENT OF       X WHOLE         X       AASSIGNMENT OF       X WHOLE         X       AASSIGNMENT OF       X WHOLE         X       AASSIGNMENT OF       X WHOLE         YER       OTHER:       EXEC. DATE: Nov. 22, 1999         CHANGE OF NAME       VERIFIED TRANSLATION       EXEC. DATE: Nov. 22, 1999         SECURITY       MERGER       OTHER:         4       EXECUTION DATE(S) ON THE DECLARATION IF FILED HEREWITH: (NOTE IF DATES 1↓ DIFFER         SEE ATTY):       APT. APP. NO.(S)       M#         Series code/serial no       Iff not in fem 1       Iff not in fem 1         50/461,390       84-117       Iff not in fem 1       Iff not in fem 1         51       Name & Address of Party to Whom Correspondence Concerning Document Should be Mailed:       NOMECINSING OR INADEQUATE Shout T	1. Edwin Granville Butler 2. Anthony Gordon Razzell	( APR 2 5 2000			
NAME: Rolls-Royce plc, a British Company         ADDRESS: 65 Buckingham Gate, London SW1E 6AT, England         ADDITIONAL NAME(S) & ADDRESS(ES) ATTACHED?       YES       x       NO         3. NATURE OF CONVEYANCE (DOCUMENT): (Submit herewith only one document)       multiple copies of same Assignment signed by different wentors is one document)         XIII URE OF CONVEYANCE (DOCUMENT): (Submit herewith only one document)       PART INTEREST       EXEC. DATE: Nov. 22, 1999         CHANGE OF NAME       VERIFIED TRANSLATION       EXEC. DATE: Nov. 22, 1999         CHANGE OF NAME       OTHER:         4. EXECUTION DATE(S) ON THE DECLARATION IF FILED HEREWITH: (NOTE: IF DATES 1 <sup>1</sup> DIFFER SEE ATTY);       NO         4.5 APPL. NO.(S) OR PAT NO.(S). OTHERS ON ADDITIONAL SHEET(S) attached?       YES       X         5. Name & Address of Party Io Whom Correspondence Concerning Document Should be Mailed.       6. NUMBER INVOLVED: APPLNS 1 + PATS: = TOTAL 1         7. AMOUNT OF FEE ENCLOSED. (Code 581) ABOVE TOTAL X \$40 = \$ 40         Arase & Manelli, PLLC Storm Herein, NW       CLIENT REF.       due sheet interguined UNDER SOLOGE?       B4117         84117       2644 TAL       UNDER ORDER NO       84117         9. JF ABOVE FEE IS MISSING OR INADEQUATE Sologe and before the foregoing information is true and correct and any attached copy is copy of the original document.       10. Total number of pages including this cover sheet, attachments and document. <t< td=""><td>· · · · · · · · · · · · · · · · · · ·</td><td>G IRADEM</td><td>ACHED? YES</td><td>XNC</td><td>)</td></t<>	· · · · · · · · · · · · · · · · · · ·	G IRADEM	ACHED? YES	XNC	)
ADDRESS: 65 Buckingham Gate, London SW1E 6AT, England         ADDITIONAL NAME(S) & ADDRESS(ES) ATTACHED?       YES       X NO         3. NATURE OF CONVEYANCE (DOCUMENT): (Submit herewith only one document for recordation multiple copies of same Assignment signed by different inventors is opie document)       X NO         X ASSIGNMENT OF CHANGE OF NAME       Y WHOLE       PART INTEREST VERIFIED TRANSLATION       EXEC. DATE: Nov. 22, 1999         X ASSIGNMENT OF CHANGE OF NAME       Y WHOLE       PART INTEREST VERIFIED TRANSLATION       EXEC. DATE: Nov. 22, 1999         X ASSIGNMENT OF CHANGE OF NAME       Y WHOLE       PART INTEREST VERIFIED TRANSLATION       EXEC. DATE: Nov. 22, 1999         X ASSIGNMENT OF CHANGE OF NAME       Y VERIFIED TRANSLATION       EXEC. DATE: Nov. 22, 1999       X NO         4 EXECUTION DATE(S) ON THE DECLARATION IF FILED HEREWITH: (NOTE: IF DATES 1↓ DIFFER SEE ATTY)).       X NO       X NO         4.5 APPL NO.(S) OR PAT NO.(S). OTHERS ON ADDITIONAL SHEET(S) attached?       Y ES       X NO         5. Mame & Address of Party to Whom Correspondence Concerning Document Should be Mailed: .W Waren Talavuil       6. NUMBER INVOLVED: .APPLNS 1 + PATS = TOTAL 1 . AMOUNT OF FEE ENCLOSED: (Code 581) .ABOVE TOTAL X \$40 = \$40 .Washington, D. C. 20036       8. IF ABOVE TOTAL X \$40 = \$40 .WASHINGTON, D. C. 20036       8. IF ABOVE TOTAL X \$40 = \$40 .WASHINGTON, D. C. 20036       8. IF ABOVE TOTAL X \$40 = \$40 .WASHINGTON, D. C. 20036       8. IF ABOVE TOTAL X \$40 = \$40 .WASHINGTON, D. C. 20036       8. IF ABOVE TOTAL					
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3. NATURE OF CONVEYANCE (DOCUMENT): (Submit herewith only one document)       Submit herewith only one document)         (Submit herewith only one document)       For each other only one document for recordation	ADDRESS: 65 Buckingham Gate	e, London SW1E 6AT, En	gland		
(Submit herewith only one document)       Image: Mocument)         x       ASSIGNMENT OF       x         wHOLE       PART INTEREST       EXEC. DATE: Nov. 22, 1999         CHANGE OF NAME       VERIFIED TRANSLATION       EXEC. DATE: Nov. 22, 1999         SECURITY       MERGER       OTHER:         4. EXECUTION DATE(S) ON THE DECLARATION IF FILED HEREWITH: (NOTE: IF DATES ↑↓ DIFFER         SEE ATTY!):       MERGER       OTHER:         4. 5 APPL. NO.(S) OR PAT NO.(S). OTHERS ON ADDITIONAL SHEET(S) attached?       YES       X         A. PAT. APP. NO.(S)       M#       1ST INVENTOR       B. PATENT NO(S)       M#       1ST INVENTOR         B. PATENT NO(S)       M#       1ST INVENTOR       B. PATENT NO(S)       M#       1ST INVENTOR         S. Name & Address of Party to Whom Correspondence Concerning Document Should be Mailed:       6. NUMBER INVOLVED:       AMOUNT OF FEE ENCLOSED: (Code 581)         ABOVE TOTAL X \$40 = \$ 400       8. IF ABOVE FEE IS MISSING OR INADEQUATE CHARGE INSUFFICIENCY TO DEPOSIT ACCOUNUMBER: So-0687       8. IF ABOVE FEE IS MISSING OR INADEQUATE CHARGE INSUFFICIENCY TO DEPOSIT ACCOUNUMBER: So-0687         MATTER NO.       CLIENT REF.       4			YES	x	]NO
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A. PAT. APP. NO. (S) Berles code/serial no       M#       1ST INVENTOR if not in litem 1       B. PATENT NO(S)       M#       1ST INVENTOR if not in litem 1         09/461,390       84-117       6. NUMBER INVOLVED: Concerning Document Should be Mailed: W Warren Taitavuil arkas & Manelli, PLLC Seventh Floor 2000 M Street, N.W. Washington, D.C. 20036       6. NUMBER INVOLVED: APPLNS_1 + PATS:_ = TOTAL 1         7. AMOUNT OF FEE ENCLOSED: (Code 581) ABOVE TOTAL X \$40 = \$ 40         8. IF ABOVE FEE IS MISSING OR INADEQUATE CHARGE INSUFFICIENCY TO DEPOSIT ACCOUN NUMBER: 50-0687         8. IF ABOVE FEE IS MISSING OR INADEQUATE CHARGE INSUFFICIENCY TO DEPOSIT ACCOUN NUMBER: 50-0687         9. STATEMENT AND SIGNATURE. To the best of my knowledge and befet, the foregoing information is true and correct and any attached copy is sopy of the original document.         9. STATEMENT AND SIGNATURE. To the best of my knowledge and befet, the foregoing information is true and correct and any attached copy is sopy of the original document.         9. STATEMENT AND SIGNATURE. To the best of my knowledge and befet, the foregoing information is true and correct and any attached copy is sopy of the original document.         10. Total number of pages including this cover sheet, attachments and document (do not file dup. Cover sheet)         Attorney:       W. Warren Taitavull Reg. No.         25647       Date:         April 25, 2000         Fax: (202) 887-0336	<ol> <li>EXECUTION DATE(S) ON TH <u>SEE ATTY</u>!):</li> </ol>	IE DECLARATION IF FIL	ED HEREWITH: ( <u>NOTE</u> : I	F DATES ↑↓ DIF	FER
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M. Warren Taltavull arkas & Manelli, PLLC Seventh Floor Seventh Floor Mashington, D.C. 20036       7. AMOUNT OF FEE ENCLOSED: (Code 581) ABOVE TOTAL X \$40 = \$ 40         8. IF ABOVE FEE IS MISSING OR INADEQUATE CHARGE INSUFFICIENCY TO DEPOSIT ACCOUN NUMBER: 50-0687       84117         MATTER NO.       CLIENT REF.         9. STATEMENT AND SIGNATURE. To the best of my knowledge and bellet, the foregoing information is true and correct and any attached copy is copy of the original document.         9. STATEMENT AND SIGNATURE. To the best of my knowledge and bellet, the foregoing information is true and correct and any attached copy is copy of the original document.         10. Total number of pages including this cover sheet, attachments and document (do not file dup. Cover sheet)         Attorney:       W. Warren Taltavull Z5647         Reg. No.       25647         TEL: (202) 261-1047       Date: April 25, 2000 Fax: (202) 887-0336	5 Name & Address of Party to V	/hom Correspondence		I ED:	L
M Warren Tallavull Seventh Floor       7. AMOUNT OF FEE ENCLOSED: (Code 581)         ABOVE TOTAL X \$40 = \$ 40       ABOVE TOTAL X \$40 = \$ 40         Mashington, D.C. 20036       8. IF ABOVE FEE IS MISSING OR INADEQUATE CHARGE INSUFFICIENCY TO DEPOSIT ACCOUNUMBER: 50-0687         84117       2644 TAL         WATTER NO.       CLIENT REF.         9. STATEMENT AND SIGNATURE. To the best of mychnowledge and beyer, the foregoing information is true and correct and any attached copy is copy of the original document.         10. Total number of pages including this cover sheet, attachments and document (do not file dup. Cover sheet)         Attorney:       W. Warren Taltavull 25647         Reg. No.       25647         Atty/Sec:       TEL: (202) 261-1047         7       April 25, 2000         Fax: (202) 887-0336	Concerning Document Should	be Mailed:			
Seventh Floor       ABOVE TOTAL X \$40 = \$40         2000 M Street, N.W.       ABOVE TOTAL X \$40 = \$40         Xashington, D.C. 20036       8. IF ABOVE FEE IS MISSING OR INADEQUATE CHARGE INSUFFICIENCY TO DEPOSIT ACCOUNUMBER: 50-0687         84117       2644 TAL       UNDER ORDER NO       84117         MATTER NO.       CLIENT REF.       UNDER ORDER NO       84117         Or the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is copy of the original document.       10. Total number of pages including this cover sheet, attachments and document (do not file dup. Cover sheet)         Attorney:       W. Warren Taltavull       Date:       April 25, 2000         Reg. No.       25647       Date:       April 25, 2000         YZE/2000 TTRM1       00000142 09461390       Fax: (202) 887-0336	N. Warren Taltavull				de 581)
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Mum       10. Total number of pages including this cover sheet, attachments and document (do not file dup. Cover sheet)         Attorney:       W. Warren Taltavull         Reg. No.       25647         Atty/Sec:       TEL: (202) 261-1047         TEL: (202) 261-1047       Fax: (202) 887-0336	B. STATEMENT AND SIGNATU To the best of my knowledge a copy of the original document.	RE. nd beinef, the foregoing in	formation is true and corre	ct and any attach	ned copy is a true
W. Warren Taltavull         Date:         April 25, 2000           Reg. No.         25647         Date:         April 25, 2000           Atty/Sec:         TEL: (202) 261-1047         Fax: (202) 887-0336           /26/2000 TTRAN1         00000142 09461390         00000142 09461390	IVIAL 1				
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Please return signed/recorded to:

Farkas & Manelli, PLLC 2000 M Street, N.W., 7<sup>th</sup> Floor Washington, D.C. 20036 For Inventions made outside USA executed with or after application

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Atty

NONPROVISIONAL

## ASSIGNMENT OF NONPROVISIONAL APPLICATION

USA Patent Appln.

Sole or Joint

NONPROVISIONAL

Client Ref.

In consideration of the sum of Ten Dollars (\$10.00) and other good and valuable consideration paid to each of the undersigned, to wit:

INSERT	(1) Edwin Granville Butler	(4) Paul Andrew Doleman
NAME(S) OF INVENTOR(S)	(2) Anthony Gordon Razzell	(5) Ihsan Ali Hussein Al-Dawery
INVENTOR(5)	(3) John Dominy	[] x box if continued on page 2

the receipt and sufficiency of which are hereby acknowledged by the undersigned who at the request of, hereby sell(s), assign(s) and transfer(s) unto:

INSERT NAME(S) OF	Rolls-Royce plc, A British Company of
	65 Buckingham Gate
ASSIGNEE(S) & ADDRESS(ES)	London
	SW1E 6AT
	England

(hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100, in the invention and all applications including any and all divisions, continuations, substitutes, and reissues thereof; and all resulting patents, known as

TITLE OF INVENTION

A METHOD OF MANUFACTURING A CERAMIC MATRIX COMPOSITE

for which the undersigned executed an application for Letters Patent of the United States of America:

 $\frac{\text{NOTE}}{(\text{Complete})} \rightarrow \rightarrow (\text{Complete})$ line A, B and/or (C)

<b>(A)</b>	$\times$	even date herewith		
<b>(B)</b>		on		
(C)		in U.S. Appln. No.	1	filed

AND the undersigned hereby authorize(s) and request(s) the United States Commissioner of Patents and Trademarks to issue said Letters Patent to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legals representatives; the undersigned agree(s) that the attorney of record in said application shall hereinafter act on behalf of said ASSIGNEE;

AND the undersigned hereby agree(s) to testify and execute any papers for ASSIGNEE, its successors, assigns and legal representatives, deemed essential by ASSIGNEE to ASSIGNEE'S full protection and title in and to the invention hereby transferred.

<u>NOTE</u> The undersigned hereby authorize(s) Farkas & Manelli, PLLC, of the above address to insert hereon any further identification necessary or desirable for recordation of this document.

INVENTOR(S)	DATE SIGNED	WITNESSES	
1) Colon for the Charles	22 december 84	Tall	
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4) hand & Deeman	15 November 19	blaxing (E instrum)	
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5) Ibsan A H Mean	18 Novembergg	The SANDRAWS	
Name: Ihsan Ali Hussein Al-Dawery			
IF ADDITIONAL INVENTORS, check box and continue on page 2.			

PATENT REEL: 010727 FRAME: 0160

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