JMYS-117US

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SHEET U.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office

To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof Name of conveying party(ies): Name and address of receiving party(ies): 1) Peter Edward James Abbott Name: **Johnson Matthey Public Limited** 2) Martin John Fernie Company Internal Address: Street Address: 2-4 Cockspur Street Additional name(s) of conveying party(ies) attached? ☐ YES ☒ NO Trafalgar Square City: London 3. Nature of Conveyance: State: Merger Security Agreement Change of Name SW1Y 5BQ Zip: Correction of Assignment Recordation Country: **United Kingdom** (previously recorded at Reel , Frame Other Additional name(s) & address(es) attached?

YES
NO Execution Dates: 1) 07/09/2004 2) 07/12/2004 4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: 1) 07/09/2004 2) 07/12/2004 A. Patent Application Number(s) B. Patent Number(s) [0201 Additional number(s) attached? ☐ YES ⊠ NO 6. Total number of applications and patents involved: 1 Name and address of party to whom correspondence concerning document should be mailed: Name: Christopher R. Lewis 7. Total fee (37 CFR 3.41): \$ 40.00 Internal Address: RatnerPrestia Enclosed Suite 301 Authorized to be charged to deposit account One Westlakes Berwyn, P.O. Box 980 8. Deposit account number: 18-0350 Valley Forge City: State: PA (Attach duplicate copy of this page if paying by deposit account.) 19482-0980 ZIP: Street Address: Nemours Building 1007 Orange Street Suite 1100, P.O. Box 1596 City: Wilmington State: DE ZIP: 19899 DO NOT USE THIS SPACE 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. Christopher R. Lewis 36,201 July 15, 2004 Name of Person Signing Registration No. Signature Date

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PATENT

REEL: 016089 FRAME: 0798

ASSIGNMENT - Patent Application			Docke	Docket Number: JMYS-117US		
Whereas, the Assignor, comprising the following named inventors:						
ASSIGNOR(s)/ INVENTOR(s)	Peter Edward James Abbott		2.	2. Martin John Femile		
	3.		4.	4.		
	5.		8.	6.		
made an Invention entitled: PROCESS FOR THE PRODUCTION OF HYDROCARBONS						
for which an application for Letters Patent of the United States: (Select one of the following): is executed concurrently herewith was filled in the U.S. Patent and Trademark Office on, as U.S. Patent Application Serial No.:						
AGGIGNEE (Full Name and Address)		Johnson Matthey Public Limited Company (a British body corporate) 2-4 Cockepur Street, Trafalger Square London SW1Y 5BQ United Kingdom				
is desirous of acquiring the entire interest in and to said invention and the Letters Patent to be obtained therefor,						

Now, therefore, in consideration of the payment by Assignee to Assignor of a sum corresponding to One Dollar (\$1.00), and for other good and valuable consideration, the receipt of which is hereby acknowledged. Assignor, intending to be legally bound, hereby sells, assigns and transfers to Assignee, its successors and assigns the full and exclusive right, title and interest in and to said invention, all applications for Lettere Patent for said invention, including all divisions, continuations, and continuations-in-part thereof, all rights to claim priority based thereon, and all Lettere Patent, including releases, to be obtained therefor, including any and all foreign patent rights in this invention corresponding thereto.

Assignor hereby warrants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this Assignment.

Addition agrees it shall be logally bound, upon request of the Assigned or its successors or essigns or a legal representative thereof, to supply all information and evidence of which the Assigner has knowledge or possession, relating to the making and practice of said invention, to testify in any legal proceeding relating thereto, to execute all instruments proper to patent the invention in the United States of America and foreign countries in the name of the Assignee, and to execute all instruments proper to carry out the intent of this instrument.

If the invention requires a biological deposit, Assignor also grants to Assignee such control over any deposit made by Assignor as may be necessary to the validity of the patent rights assigned herein.

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PATENT REEL: 016089 FRAME: 0799

ASSIGNMENT - Patent Application

Docket Number: JMYS-117US

Assignor authorizes Assignor's attorney to insert at the end hereof, the serial number and filing date of the aforesaid application for United States Letters Patent and/or the Attorney Docket or file designation for this application if not identified above.

If the Assignor includes more than one individual, these obligations shall apply to these individuals both individually and collectively.

In witness whereof, this Assignment is executed on the day indicated below.

	Ty	med or Printed Name	Signature	Date			
	1. Po	eter Edword James Abbott	PEDALL	9/07/04			
			* Witness to Assisnor #1	09/07/04			
	2. M	artin John Fernje	Morin Tennie	12/7/04			
			* Witness to ssignor #2	12/7/04			
	3.						
SIGNATURE			* Witness to Assignor #3	A STATE OF THE STA			
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			* Witness to Assignor #5				
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			* Witness to Assignor #6				
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RECORDED: 07/15/2004