## PATENT ASSIGNMENT

## Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:		NEW ASSIGNMENT			
NATURE OF CONVEYANCE:		ASSIGNMENT			
CONVEYING PARTY DATA					
		N	lame	Execution Date	
Mark McKenna				07/12/2012	
RECEIVING PARTY DATA					
Name:	Johnson Mat	Johnson Matthey PLC			
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Internal Address:	25 Farringdo	25 Farringdon Street			
City:	London				
State/Country:		GDOM	MOC		
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PROPERTY NUMBERS Total: 1					
Property Type		Number			
Application Number: 13521		923			
CORRESPONDENCE	DATA				
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$\mathbf{C}$					
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ATTORNEY DOCKET NUMBER:			JMYS-230US		
NAME OF SUBMITTER:			Christopher R. Lewis		
Total Attachments: 2 source=JMYS230US_ASSIGN#page1.tif source=JMYS230US_ASSIGN#page2.tif					

SYN/60188US/JR

ASSIGNI	MENT - Patent Application	Docket Number: JMYS-230US				
Whereas, the Ass	ignor, comprising the following named inven	tors:				
	1. Mark McKenna	2.				
ASSIGNOR(s)/ INVENTOR(s)	3.	4.				
	5.	6.				
made an inventior	made an invention entitled: TWO STAGE PROCESS FOR THE CONVERSION OF SYNTHESIS GAS USING A COBALT CATALYST IN THE FIRST STAGE AND A SUPPORTED RUTHENIUM CATALYST IN THE SECOND STAGE					
(Select one of the for is executed was filed in	cation for Letters Patent of the United States ollowing): concurrently herewith the U.S. Patent and Trademark Office on ent Application Serial No.:					
ASSIGNEE (Full Name and Address) Johnson Matthey PLC 5 <sup>th</sup> Floor 25 Farringdon Street London EC4A 4AB United Kingdom						
Now, ther Dollar (\$1.00), and Assignor, intendin assigns, the full a said invention, inc based thereon, ar patent rights in thi	efore, in consideration of the payment by As d for other good and valuable consideration, ig to be legally bound, hereby sells, assigns nd exclusive right, title and interest in and to cluding all divisions, continuations, and conti ad all Letters Patent, including reissues, to b is invention corresponding thereto.	tion and the Letters Patent to be obtained therefor, signee to Assignor of a sum corresponding to One the receipt of which is hereby acknowledged, and transfers to Assignee, its successors and said invention, all applications for Letters Patent for nuations-in-part thereof, all rights to claim priority e obtained therefor, including any and all foreign				
Assignor I or entered into wh	hereby warrants that no assignment, sale, a hich would conflict with this Assignment.	greement or encumbrance has been or will be made				
Assignor agrees it shall be legally bound, upon request of the Assignee or its successors or assigns or a legal representative thereof, to supply all information and evidence of which the Assignor 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 inve deposit made by /	ntion requires a biological deposit, Assignor Assignor as may be necessary to the validity	also grants to Assignee such control over any of the patent rights assigned herein.				
L						

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## PATENT REEL: 029567 FRAME: 0179

ASSIGNMENT - Patent Application	Docket Number: <u>JMYS-230US</u>

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.

	Typed or Printed Name	Signature	Date
	1. Mark McKenna	Mark Mikena Kenaged	12th July 2012.
		* Witness to Assignor #1	<u></u>
	2.		
		* Witness to Assignor #2	
	3.		
SIGNATURE		* Witness to Assignor #3	
	4.		
		* Witness to Assignor #4	
	5.		
		* Witness to Assignor #5	
	6.		
		* Witness to Assignor #6	

Application for United States Letters Patent:				
Serial No.:	13/521,923			
Filed:				
Attorney Docket Number:	JMYS-230US			
Total Number of Assignment Pages	2 * Witness signature recommended, mandatory for some countries			

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## PATENT REEL: 029567 FRAME: 0180

**RECORDED: 01/04/2013**