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Form PTO-1595 (Rev. 06/04) (AW 09/2004) (Exp. 6/30/2005) 09 - 06	U.S. DEPARTMENT OF COMMERCE United States Patent and Trademark Office		
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Gordon James Kelly	Name: Johnson Matthey Public Limited		
	Company		
	Internal Address:		
Execution Date(s) February 1, 2005			
Additional name(s) of conveying party(ies) attached? ☐ YES ☒ NO	Street Address: 2-4 Cockspur Street		
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3. Nature of Conveyance:	City: London		
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5. Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of <u>applications</u> and patents involved:		
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9. Signature: Jan Oh Hali	February 11, 2005		

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ASSIGNMENT - Patent Application Doc		ocket Number: JMYS-119US		
Whereas, the Assignor, comprising the following named inventors:				
	1. Gordon James Kelly			2.
ASSIGNOR(s)/ INVENTOR(s)	3.			4.
	5.			6.
made an inventior	n entitled:	COMBINATION OF A GUARD BED	ANI	O A COPPER-CONTAINING CATALYST BED
for which an application for Letters Patent of the United States: (Select one of the following): is executed concurrently herewith was filed in the U.S. Patent and Trademark Office on, as U.S. Patent Application Serial No.:				
ASSIGNEE (Full Name and Address) Johnson Matthey Public Limited Company (a British body corporate) 2-4 Cockspur Street Trafalgar 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 Letters Patent for said invention, including all divisions, continuations, and continuations-in-part thereof, all rights to claim priority based thereon, and all Letters Patent, including reissues, 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.

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 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.

Page 1 of 2 Modified 2/6/03

PATENT REEL: 016934 FRAME: 0131 **ASSIGNMENT** - Patent Application

Docket Number: JMYS-119US

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.

1.823

	Typed or Printed	Name	Signature	Date
	1. Gordon James k	Celly	Sunder Ham's * Witness to Assignor #1	1/2/05
	2.	OR DESIGNATION OF STREET	Witness to Assignor #1	
			* Witness to Assignor #2	
	3.			
SIGNATURE			* Witness to Assignor #3	
	4.			
			* Witness to Assignor #4	
	5.			
		783 TO TO THE BANK OF THE BANK	* Witness to Assignor #5	
	6.			
			* Witness to Assignor #6	
Application for t	Jnited States Letters P	atent:		;
Serial No.:	_		•	
Filed:	_	·		
Attorney Docke	t Number:	JMYS-119	ous	
Fotal Number o	f Assignment Pages	3	* Witness signature recommende	d, mandatory for some countries

Page 2 of 2 Modified 2/6/03

PATENT REEL: 016934 FRAME: 0132

RECORDED: 02/11/2005