502149919 12/04/2012

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Martin Graham Partridge	07/17/2012
Marinus Johannes Vissenberg	07/24/2012
Anders Gabrielsson	07/17/2012

RECEIVING PARTY DATA

Name:	Johnson Matthey PLC	
Street Address:	5th Floor	
Internal Address:	25 Farringdon Street	
City:	London	
State/Country:	UNITED KINGDOM	
Postal Code:	EC4A 4AB	

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	13520430	

CORRESPONDENCE DATA

Fax Number: 6104070701

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 610-407-0700

Email: Irbennett@ratnerprestia.com

Correspondent Name: Christopher R. Lewis

Address Line 1: P.O. Box 980

Address Line 4: Valley Forge, PENNSYLVANIA 19482-0980

ATTORNEY DOCKET NUMBER:	JMYS-228US
NAME OF SUBMITTER	Christopher R Lewis

Total Attachments: 6

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PATENT REEL: 029402 FRAME: 0176 **340.00 13520430**

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> PATENT REEL: 029402 FRAME: 0177

ASSIGNMENT - Patent Application			Docket Number: JMYS-228US			
Whereas, the Assignor, comprising the following named inventors:						
	Martin Graham Partridge		2.	Marinus Johannes Vissenberg		
ASSIGNOR(s)/ INVENTOR(s)	3. A n d	ers Gabrielsson	4.			
	5.	5.				
made an inventior	entitled:	CATALYST AND METHOD OF CA	TALYST	MANUFACTURE		
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 A	ddress)	Johnson Matthey PLC 5 th Floor 25 Farringdon Street London EC4A 4AB 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

ASSIGNMENT - Patent Application

Docket Number: JMYS-228US

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 Prin	ited Name	Signature	Date
	1. Martin Grah	am Partridge	*Witness to Assignor #1	17 July 2012
	2. Marinus Joh	annes		
		m-0	* Witness to Assignor #2	
	3. Anders Gab	rielsson	<u> </u>	
SIGNATURE			* Witness to Assignor #3	
4	4.			
	12-A19-31-XI(2), 13-21-21-21-21-21-21-21-21-21-21-21-21-21-		* Witness to Assignor #4	
	5.			
		TO TOTAL STATE OF THE STATE OF	* Witness to Assignor #5	
	6.			
			* Witness to Assignor #6	
Application for	United States Lette	ers Patent:		
Serial No.:		<u>13,</u> 520	,430	
Filed:				
Attorney Docke	t Number:	<u>JMYS-228</u>	<u>us</u>	
Гotal Number с	of Assignment Pag	es 2	* Witness signature recommende	d, mandatory for some countries

Page 2 of 2 Modified 2/6/03

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ASSIGNOR(s)/ INVENTOR(s)	3. And	ers Gabrielsson	4.		
	5.	(), (), (), (), (), (), (), (), (), (),			
made an inventior	n entitled:	CATALYST AND METHOD OF CA	TALYST I	MANUFACTURE	
for which an appli (Select one of the fo		Letters Patent of the United States	3:		
is executed concurrently herewith was filed in the U.S. Patent and Trademark Office on, as U.S. Patent Application Serial No.:					
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	Typed or F	Printed Name	Signature	Date
	1. Martin Gr	aham Partridge		
	MIN. MIRCOLD TO MIN. TO DO TO THE REAL PROPERTY OF THE PROPERT		* Witness to Assignor #1	
	2. Marinus J	lohannes	Ma 145	24.07.2012
			* Witness to Assignor #2	24.07.2012 24.07.2012
	3. Anders G	abrielsson		
SIGNATURE	***************************************		* Witness to Assignor #3	
	4.			
	Schaufungsteiler Meist Kallent affilm Jahrdauer der find Heine schaftende inde er freid b	iggywy (cannon magair cham balann ab ar na fhaichtaig aigegridgegl	* Witness to Assignor #4	
	5.			

	-wasterstands-trivens-tent one-time-tentur-y-area	MMA,/1071.141 (MMA) 15410 AM, MANDE MITTIMA I AM L'EM	* Witness to Assignor #5	
	6.			
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			Warrandon to see a second seco	
Application for U	Jnited States Le	etters Patent:		
Serial No.:		<u>13/</u> 52(0,430	
Filed:		www.mananananananananananananananananananan		
Attorney Docke	Number:	JMYS-228	BUS	
Total Number o	f Assignment Pa	ages 2	* Witness signature recommend	ed, mandatory for some countries

Page 2 of 2 Modified 2/6/03

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	Typed or Printed	Name	Signature	Date
	1. Martin Graham I	Partridge		
		- Ng COO MAN A 10 MIN OF A MAN AND A 10 MIN OF A 10 MI	* Witness to Assignor #1	
	2. Marinus Johann	es		
			* Witness to Assignor #2	
	3. Anders Gabriels	son	1. Ge 51.66	17/07/2012
SIGNATURE		MINTO) MAINTAINE (1921 ANNI 1921 ANNI 19	F. L. CTC (LICA_* Witness to Assignor #3	17/07/2012
	4.			
	Total College of Allegories a Wiley State College of the College o	word (Bross) we street a way a recent	* Witness to Assignor #4	
	5.			
		MATERIAL PROPERTY AND ASSESSMENT OF THE PROPERTY OF THE PROPER	* Witness to Assignor #5	
	6.			MICHIGAN AND THE COLUMN TO THE
		***************************************	* Witness to Assignor #6	
Application for I	United States Letters F	Patent:		
Serial No.:		<u>13/5</u> 2	0,430	
Filed:				
Attorney Docke	t Number:	JMYS-22	28US	
Total Number o	of Assignment Pages	2	* Witness signature recommended,	mandatory for some countries

Page 2 of 2 Modified 2/6/03

PATENT REEL: 029402 FRAME: 0183

RECORDED: 12/04/2012