

10-13-2006



103320673  
PATENTS OFFICE

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10.2.06

1. Name of conveying party(ies)/Execution Date(s):

- 1) Sean Alexander Axon
- 2) Duncan Roy Coupland
- 3) Brian Thomas Horner
- 4) John Ridland
- 5) Ian Carmichael Wishart

Additional name(s) of conveying party(ies) attached?  YES  NO

2. Name and address of receiving party(ies):

Name: Johnson Matthey PLC

Internal Address: \_\_\_\_\_

Street Address: 2-4 Cockspur Street

Trafalgar Square

City: London

State: \_\_\_\_\_

Zip: SW1Y 5BQ

Country: United Kingdom

Additional name(s) & address(es) attached?  YES  NO

3. Nature of Conveyance:

Execution Date(s) 1) 11/03/2005  
2) & 3) 10/24/2005  
4) 10/21/2005  
5) 10/27/2005

- Assignment  Merger
- Security Agreement  Change of Name
- Joint Research Agreement
- Government Interest Assignment
- Executive Order 9424, Confirmatory License
- Correction of Assignment Recordation  
(previously recorded at Reel \_\_\_\_\_, Frame \_\_\_\_\_).
- Other \_\_\_\_\_

4. Application or patent number(s):  This document is being filed together with a new application.

A. Patent Application Number(s) 10/554,982

B. Patent Number(s) \_\_\_\_\_

Additional number(s) attached?  YES  NO

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Christopher R. Lewis

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6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 1.21(h) & 3.41): \$ 40.00

- Authorized to be charged by credit card
- Authorized to be charged to deposit account
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- None required (government interest not affecting title)

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a. Credit Card - Last 4 Numbers 31004  
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9. Signature: [Signature]  
Signature

October 2, 2006  
Date

Christopher R. Lewis  
Name of Person Signing

36,201  
Registration No.

Total number of pages including cover sheet, attachments and documents: 3

Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to:  
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, VA 22313-1450

**ASSIGNMENT - Patent Application**Docket Number: **JMYS-135US**

Whereas, the Assignor, comprising the following named inventors:

ASSIGNOR(s)/ INVENTOR(s)	1. <b>Sean Alexander Axon</b>	2. <b>Duncan Roy Coupland</b>
	3. <b>Brian Thomas Horner</b>	4. <b>John Ridland</b>
	5. <b>Ian Carmichael Wishart</b>	6.

made an invention entitled: **CATALYST CHARGE DESIGN**

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 PLC**  
**(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.

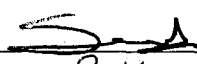

# ASSIGNMENT - Patent Application

Docket Number: **JMYS-135US**

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. Sean Alexander Axon	 S Hams	3/11/05 3/11/05
	* Witness to Assignor #1	
2. Duncan Roy Coupland	 S Hams	24/10/05 24/10/05
	* Witness to Assignor #2	
3. Brian Thomas Horner	B.T.H. S Hams	24/10/05 24/10/05
	* Witness to Assignor #3	
4. John Ridland	John Ridland S Hams	21/10/05 21/10/05
	* Witness to Assignor #4	
5. Ian Carmichael Wishart	I.C. Wishart S Hams	27 Oct 05 27 OCT 05
	* Witness to Assignor #5	
6.		
	* Witness to Assignor #6	

SIGNATURE

Application for United States Letters Patent:

Serial No.: 10/554,982

Filed: \_\_\_\_\_

Attorney Docket Number: **JMYS-135US**

Total Number of Assignment Pages  2

\* Witness signature recommended, mandatory for some countries