

BOX ASSIGNMENTS

NOV 06 2003

11-12-2003

DO NOT USE FOR TRADEMARKS

ET  
ONLYTO THE DIRECTOR OF THE US PAT  
SIR: PLEASE RECORD THE ATTACH.

102597817

HEREOF.

## 1. NAME OF CONVEYING PARTY(IES) (ASSIGNORS(S)):

1. Unichema Chemie BV

3.

5.

7.

2.

4.

6.

8.

ADDITIONAL NAME(S) OF CONVEYING PARTY(IES) ATTACHED? ☐ YES ☒ NO

## 2. PARTY(IES) (ASSIGNEE(S)) RECEIVING INTEREST:

NAME: Johnson Matthey PLC

ADDRESS: 2-4 Cockspur Street, Trafalgar Square, London SW1Y 5BQ Great Britain

ADDITIONAL NAME(S) & ADDRESS(ES) ATTACHED? ☐ YES ☒ NO

## 3. NATURE OF CONVEYANCE (DOCUMENT):

(Submit herewith only one document for recordation—multiple copies of same Assignment signed by different inventors is one document)☒ ASSIGNMENT OF☒ WHOLE☐ PART INTEREST☒ ORIGINAL☐ FACSIMILE/PHOTOCOPY☐ CHANGE OF NAME☐ VERIFIED TRANSLATION☐ SECURITY ☐ MERGER☐ OTHER:

EXEC. DATE: July 29, 2003

EXECUTION DATE(S) ON THE DECLARATION IF FILED HERewith: (NOTE: IF DATES ON DECLARATION AND ASSIGNMENT DIFFER SEE ATTY!)

4.5 APPL. NO.(S) OR PAT NO.(S). OTHERS ON ADDITIONAL SHEET(S) attached? ☐ YES ☐ NOA. PAT. APP. NO.(S)  
series code/serial no

M#

1<sup>st</sup> INVENTOR  
if not in item 1

B. PATENT NO(S)

M#

1<sup>st</sup> INVENTOR  
if not in item 1

(see attached)

5. Name & Address of Party to Whom Correspondence  
Concerning Document Should be Mailed:Pillsbury Winthrop LLP  
Intellectual Property Group  
P.O. Box 10500 McLean, VA 22102

6. NUMBER INVOLVED:

APPLNS 0 + PATS 11 = TOTAL = 11

7. AMOUNT OF FEE DUE: (Code 8021)

ABOVE TOTAL x \$40 = \$440

5.5 ATTY DKT:

P 0000003

8. PLEASE CHARGE TO OUR DEPOSIT ACCOUNT

NUMBER: 03-3975

UNDER ORDER NO

083255

0000003

MATTER NO.

CLIENT REF.

dup. sheet not required

CLIENT NO.

MATTER NO.

9. 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.

10. Total number of pages including this  
cover sheet, attachments and document  
(do not file dup. Cover sheet)

7

Signature

Attorney: Paul L. Sharer

Reg. No. 36,004

Date: November 6, 2003

Atty/Sec: PLS/kmh

TEL: (703) 905-2180

FAX: (703) 905-2500

FILE WITH PTO RETURN RECEIPT (PAT-103A)

11/10/2003 ECOOPER 00000245 033975 5670416

01 FC:8021

440.00 DA

**U.S. Patents:**

5,670,416
4,666,635
4,591,579
4,597,908
4,657,889
4,734,392
5,047,178
4,631,265
4,683,088
5,112,792
5,463,096

DATED

29<sup>th</sup> July

2003

---

- (1) UNICHEMA CHEMIE BV
- (2) JOHNSON MATTHEY PLC

---

ASSIGNMENT OF UNITED STATES PATENT  
APPLICATIONS AND UNITED STATES  
PATENTS

---

## PATENT ASSIGNMENT

DATE:

29<sup>th</sup> July 2003

WHEREAS:

**UNICHEMA CHEMIE BV** a company incorporated in the Netherlands whose registered office is Buurtje 1, 2802 BE, Gouda, the Netherlands (the "**Assignor**"), the legal and beneficial owner of the Patents (as defined below) has agreed to assign the Patents to **JOHNSON MATTHEY PLC** (registered number 33774) whose registered office is at 2-4 Cockspur Street, Trafalgar Square, London SW1Y 5BQ (the "**Assignee**") who is desirous of acquiring the entire right, title and interest in and to the Patents.

**IT IS NOW AGREED as follows:**

### 1. DEFINITIONS AND INTERPRETATION

1.1 In this Agreement unless the context otherwise requires:-

"**Patents**" means the patents and patent applications set out in the attached Schedule;

### 2. ASSIGNMENT

2.1 NOW THEREFORE, for good and valuable consideration agreed upon between the parties by separate agreement, receipt of which is hereby acknowledged, the Assignor, by these presents, and intending to be legally bound, does hereby sell, assign, and transfer unto the Assignee its successors and assigns, the entire right, title, and interest in and to the Patents.

2.2 The rights so assigned include:

- (1) the right to sue for, and to recover any damages and other remedies in respect of, any infringement of the Patents, which occurred or commenced prior to the date of this Agreement; and
- (2) the right to apply for, prosecute and obtain patent protection in respect of the inventions claimed in the Patents including the right to claim priority therefrom to the intent that the grant of letters patent or similar protection shall be in the name of and vest in the Assignee.

2.3 AND THE ASSIGNOR DOES HEREBY AUTHORISE AND REQUEST The Commissioner of Patents and Trademarks of the United States to issue any Letters Patent to the Assignee its successors and assigns, as sole assignee.

2.4 The effective date of this assignment is 1<sup>st</sup> November 2002.

**3. FURTHER ASSURANCE**

The Assignor will at all times at the request and reasonable cost of the Assignee execute all such instruments and do all such things as may be necessary or reasonably appropriate for the carrying out of this Agreement or to secure the vesting in the Assignee of the rights agreed to be assigned hereunder.

**4. GOVERNING LAW AND JURISDICTION**

This Agreement shall be governed by and construed in accordance with English law and all parties agree irrevocably to submit to the exclusive jurisdiction of the English courts to settle any disputes that may arise in connection with this Agreement.

## **SCHEDULE**

**Case No 42022****Title Nickel-based catalyst, its preparation and its application**

<b>Country</b>	<b>Application No</b>	<b>Patent No</b>	<b>Renewal due</b>	<b>Expiry</b>	<b>Applicant</b>
U.S.A.	568261	4670416		02 Jun 2004	Unichema Chemie B.V.

**Case No 42023****Title Nickel-based catalyst, its preparation and its application**

<b>Country</b>	<b>Application No</b>	<b>Patent No</b>	<b>Renewal due</b>	<b>Expiry</b>	<b>Applicant</b>
U.S.A.	698581	4666635		19 May 2004	Unichema Chemie B.V.

**Case No 42178****Title Process for preparing a transition metal-silicate catalyst**

<b>Country</b>	<b>Application No</b>	<b>Patent No</b>	<b>Renewal due</b>	<b>Expiry</b>	<b>Applicant</b>
U.S.A.	678798	4591579		05 Dec 2004	Unichema Chemie B.V.

**Case No 42179****Title Process for preparing a transition metal-silicate catalyst**

<b>Country</b>	<b>Application No</b>	<b>Patent No</b>	<b>Renewal due</b>	<b>Expiry</b>	<b>Applicant</b>
U.S.A.	778687	4597908		05 Dec 2004	Unichema Chemie B.V.

**Case No 42180****Title Nickel/alumina catalyst, its preparation and use**

<b>Country</b>	<b>Application No</b>	<b>Patent No</b>	<b>Renewal due</b>	<b>Expiry</b>	<b>Applicant</b>
U.S.A.	747440	4657889		21 Jun 2005	Unichema Chemie B.V.
U.S.A.	38132	4734392		21 Jun 2005	Unichema Chemie B.V.

**Case No 42181****Title Nickel/alumina catalyst, its preparation and use**

<b>Country</b>	<b>Application No</b>	<b>Patent No</b>	<b>Renewal due</b>	<b>Expiry</b>	<b>Applicant</b>
U.S.A.	544017	5047178	10-Mar-2003	10 Sep 2008	Unichema Chemie B.V.

**Case No 42184****Title A process for the preparation of a nickel/alumina/silicate catalyst and its use**

<b>Country</b>	<b>Application No</b>	<b>Patent No</b>	<b>Renewal due</b>	<b>Expiry</b>	<b>Applicant</b>
U.S.A.	747439	4631265		21 Jun 2005	Unichema Chemie B.V.

**Case No 42185****Title A process for the preparation of a nickel/alumina/silicate catalyst and its use**

<b>Country</b>	<b>Application No</b>	<b>Patent No</b>	<b>Renewal due</b>	<b>Expiry</b>	<b>Applicant</b>
U.S.A.	908211	4683088		21 Jun 2005	Unichema Chemie B.V.

**Case No 42199****Title Nickel/silica catalyst and the preparation and use thereof**

<b>Country</b>	<b>Application No</b>	<b>Patent No</b>	<b>Renewal due</b>	<b>Expiry</b>	<b>Applicant</b>
U.S.A.	524262	5112792	12-Nov-2003	16 May 2010	Unichema Chemie B.V.

**Case No 42200****Title Nickel/silica catalyst and the preparation and use thereof**

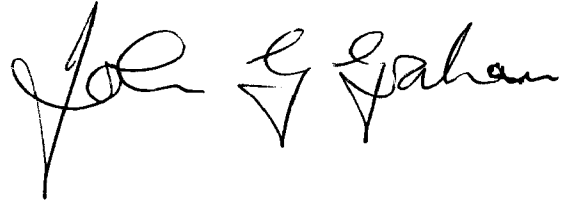
<b>Country</b>	<b>Application No</b>	<b>Patent No</b>	<b>Renewal due</b>	<b>Expiry</b>	<b>Applicant</b>
U.S.A.	08/268545	5463096	30-Apr-2003	31 Oct 2012	Unichema Chemie B.V.

## EXECUTION

The parties have shown their acceptance of the terms of this Agreement by executing it below.

**SIGNED** by JOHN GEORGE GRAHAM  
duly authorised for and on behalf of  
**UNICHEMA CHEMIE BV**

)  
)  
)

A handwritten signature in black ink, appearing to read "John G. Graham", written in a cursive style.

**SIGNED** by SARA H.M. GIBSON  
duly authorised for and on behalf of  
**JOHNSON MATTHEY PLC**

)  
)  
)

A handwritten signature in black ink, appearing to read "S.H.M. Gibson", written in a cursive style.