



U.S. DEPARTMENT OF COMMERCE
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To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof

1. Name of conveying party(ies): 10-11-01
 1) Ian William Carpenter
 2) John William Hayes

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

3. Nature of Conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Correction of Assignment Recordation
 (previously recorded at Reel _____, Frame _____).
 Other

Execution Date: 1) September 25, 2000
 2) November 15, 2000

2. Name and address of receiving party(ies):
 Name: Johnson Matthey Public Limited Company
 Internal Address: _____
 Street Address: 2-4 Cockspur Street, Trafalgar Square
 City: London State: United Kingdom ZIP: WC1Y 5BQ

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

4. Application number(s) or patent number(s):
 If this document is being filed together with a new application, the execution date of the application is: _____
 A. Patent Application Number(s) 09/832,378 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
 Internal Address: Ratner & Prestia
 Street Address: Suite 301, One Westlakes, Berwyn,
P.O. Box 980
 City: Valley Forge State: PA ZIP: 19482-0980

6. Total number of applications and patents involved: 1

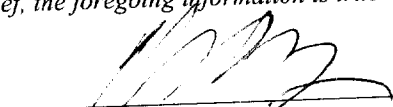
7. Total fee (37 CFR 3.41): \$ 40.00
 Enclosed
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8. Deposit account number: 18-0350
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9. Statement and signature.
To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Christopher R. Lewis
 Name of Person Signing
36,201
 Registration. No.


 Signature

October 9, 2001
 Date

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

OMB No. 0651-0011 (exp. 4/94)

Do not detach this portion
 Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents and Trademarks
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Washington, D.C. 20231

ASSIGNMENT

WHEREAS, I/we, IAN WILLIAM CARPENTER and JOHN WILLIAM HAYES of 52 PARK ROAD, STAPLETON, BRISTOL BS16 1AU, UNITED KINGDOM and 5 ELM COURT, SONNING COMMON, READING RG4 9NE, UNITED KINGDOM

(hereinafter referred to as "ASSIGNOR") have made an invention entitled CATALYTIC GENERATION OF HYDROGEN for which, on even date herewith, the ASSIGNOR executed an application for United States Letters Patent;

WHEREAS, the ASSIGNEE, JOHNSON MATTHEY PUBLIC LIMITED COMPANY of 2-4 COCKSPUR STREET, TRAFALGAR SQUARE, LONDON WC1Y 5BQ, UK a corporation organized and existing under and by virtue of the law of the 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 One Dollar (\$1.00) and of other good and valuable consideration, the receipt of which is hereby acknowledged, the undersigned, intending to be legally bound, does hereby sell, assign and transfer to the ASSIGNEE the ASSIGNOR'S entire right, title and interest, for the United States of America, its territories and possessions, and for all foreign countries, in said invention, including said patent application, all divisions and continuations thereof, all rights to claim priority based thereon, all rights to file foreign applications on said invention, and all letters patent and reissues thereof, issuing for said invention in the United States of America and in any and all foreign countries.

It is agreed that ASSIGNOR shall be legally bound, upon request and at the expense of the ASSIGNEE or its successors or assigns or a legal representative thereof, to supply all information and evidence of which the undersigned 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 and do such other acts as may be necessary and 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.

Because ASSIGNOR includes more than one person, these obligations shall apply to those persons both individually and collectively.

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.

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.

PATENT

REEL: 012256 FRAME: 0020

IN WITNESS WHEREOF, this Assignment is executed on the day indicated below.

ASSIGNOR #1:

Typed Name: IAN WILLIAM CARPENTER

Ian Carpenter Signature

Date 25th September 2000

Witness as to ASSIGNOR #1: (Optional) _____

ASSIGNOR #2:

Typed Name: JOHN WILLIAM HAYES

John Hayes Signature

Date 16th November 2000

Witness as to ASSIGNOR #2: (Optional) _____