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U.S. DEPARTMENT OF COMMERCE
U.S. Patent and Trademark Office

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies): 4-22-02
University of Newcastle upon Tyne
(a higher education institution incorporated in England)

Additional name(s) of conveying party(ies) attached? Yes No

3. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other _____

Execution Date: 11/21/2000

2. Name and address of receiving party(ies)
Name: Newcastle University Ventures Limited
(a company incorporated in England)
Internal Address: of Sun Alliance House

Street Address: 35 Mosley Street

Newcastle upon Tyne, NE1 1XX, UK
City: _____ State: _____ Zip: _____

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 No.(s) 09/913,902

B. Patent No.(s) _____

Additional numbers attached? Yes No

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

Name: Brett A. North

Internal Address: _____

GARVEY, SMITH, NEHRBASS & DOODY, L.L.C.

Street Address: 3838 N. Causeway Blvd.

Suite 3290

City: Metairie State: LA Zip: 70002

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41).....\$ 40

Enclosed

Authorized to be charged to deposit account
any deficiencies

8. Deposit account number:

50-0694

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9. Signature.

BRETT A. NORTH
Name of Person Signing

[Signature]
Signature

4/11/02
Date

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

Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231

98148.18-ARF

05/01/2002 DBYRNE 00000091 09913902
01 FC:581 40.00 DP

PATENT
REEL: 012840 FRAME: 0205

ASSIGNMENT OF PATENT APPLICATION

Date: 21st NOVEMBER 2000

Parties:

- 1 'The Assignor' UNIVERSITY OF NEWCASTLE UPON TYNE (a higher education institution incorporated in England), of 6 Kensington Terrace, Newcastle upon Tyne, NE1 7RU, UK
- 2 'The Assignee' NEWCASTLE UNIVERSITY VENTURES LIMITED (a company incorporated in England), of Sun Alliance House, 35 Mosley Street, Newcastle upon Tyne, NE1 1XX, UK

Recitals:

- (A) The Assignor is the proprietor of the patent application listed in the Schedule hereto ("the Patent Application")
- (B) The Assignor and the Assignee and have agreed ("the Agreement") for the transfer from the Assignor to the Assignee of certain intellectual property rights including the Patent Application.

Operative provisions:

In pursuance of the Agreement and in consideration for the payment of £1 by the Assignee to the Assignor receipt of which is hereby acknowledged by the Assignors:

- 1 The Assignor hereby ASSIGNS absolutely to the Assignee free from encumbrances:
 - 1.1 all its right title and interest in and to the Patent Application together with all rights and powers arising or accrued therefrom including the right to sue for damages and other remedies in respect of any infringement of such rights or other acts within the scope of the claims of any published specification of the Patent Application and to retain any damages obtained as a result of such action:
 - 1.2 the right to apply for prosecute and obtain patent or other industrial property protection throughout the world in respect of the inventions which are the subject of the Patent Application including the right to claim priority therefrom to the intent that the grant of any patents or other protection shall be in the name of and vest in the Assignee.

2 The Assignor further agrees that at the request and cost of the Assignee it will at all times hereafter do all such acts and execute all such documents as may reasonably be necessary or desirable both to secure the vesting in the Assignee of all rights assigned to the Assignee hereunder and to assist in the resolution of any question concerning the Patent Application.

AS WITNESS the signatures of a duly authorised officer of the Assignor and a duly authorised officer of the Assignee the day and year first above written

SIGNED for and on behalf of

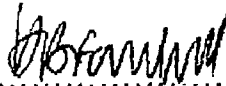
UNIVERSITY OF NEWCASTLE
UPON TYNE



.....
Name : MALCOLM CROSS
Capacity : DIRECTOR
RESEARCH & INNOVATION SERVICES

SIGNED for and on behalf of

NEWCASTLE UNIVERSITY
VENTURES LIMITED



.....
Name : H.B. FORNHILL
Capacity : DIRECTOR

SCHEDULE

The Patent Application

Patent Application No. : PCT/GB/00/00521
Title : Rotating surface of revolution reactor with feed and collection mechanisms
Inventors : Prof. Colin Ramshaw and Dr. Roshan Jachuck
Date of Filing : 17/2/2000
Date of Priority if different : 17/2/1999