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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): Colin Ramshaw, Roshan Jeet Jee Jachuk, Michael Jones, Ian Henderson Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2. Name and address of receiving party(ies): University of Newcastle, a/k/a University of Newcastle Upon Tyne (a higher education institution incorporated in England) Address: 6 Kensington Terrace Newcastle Upon Tyne NE1 7RU, UK City: State: Zip: Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other Execution Date: February 15, 2001	

4. Application number(s) or patent number(s): If this document is being filed together with a new application other than a provisional patent application, the execution date of the application is: <table> <tr> <td>A. Patent Application No. 10/204,331</td> <td>B. Patent No.(s)</td> </tr> </table>		A. Patent Application No. 10/204,331	B. Patent No.(s)
A. Patent Application No. 10/204,331	B. Patent No.(s)		
Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			

5. Name and address of party to whom correspondence concerning document should be mailed: Name: Seth M. Nehrbass, Reg. No. 31,281 Internal Address: GARVEY, SMITH, NEHRBASS & DOODY, I.L.C. PTO Customer No.: 22920 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 C.F.R. 3.41) \$ 40 <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account 8. Deposit account number: 50-0694 (Attach duplicate copy of this page if paying by deposit account)
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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. <i>CERTIFICATE OF FACSIMILE TRANSMISSION I hereby certify that this paper (4 pages total) is being facsimile transmitted to Mail Stop Assignment Recordation Services, Director - U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450, (Tel.: 703-308-9723, Fax: 703-306-5995) on the 18th day of August, 2003.</i> Seth M. Nehrbass, Reg. No. 31,281 Name of Person Signing Signature Fax: (504) 835-2070 Tele: (504) 835-2000	
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Total number of pages including cover sheet, attachments and document:

4

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ASSIGNMENT

WHEREAS, we, **Colin RAMSHAW, Roshan Jeet Jee JACHUCK, Michael JONES, and Ian HENDERSON**, are the inventors of an invention entitled "**ROTATING SURFACE OF REVOLUTION REACTOR WITH FEED AND COLLECTION MECHANISMS**", a Patent Cooperation Treaty Patent Application for which having been filed on **15 February 2001**, and bearing **Application No. PCT/GB01/00634**; and,

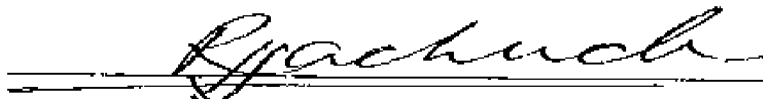

WHEREAS, **UNIVERSITY OF NEWCASTLE**, (hereinafter "**ASSIGNEE**"), a higher education institution incorporated in **ENGLAND**, is desirous of acquiring the entire right, title and interest in and to the aforesaid invention throughout the world, and all right, title and interest in, to and under any and all Letters Patent of the United Kingdom and all other countries throughout the world;

NOW, THEREFORE, for and in consideration of the sum of One Dollar (\$1.00) to us in hand paid by **ASSIGNEE** and for other good and valuable considerations, the receipt of which is hereby acknowledged, effective **15 February 2001** we hereby sell, assign, transfer and set over to **ASSIGNEE** all right, title and interest in and to the said invention throughout the world, and said application for U.S. Letters Patent, and any and all divisions, continuations, continuations-in-part, and reissues thereof, and any and all Letters Patent of the United States and foreign countries which may be granted therefor, the same to be held and enjoyed by **ASSIGNEE** for its own use and benefit, and for the use and benefit of its successors, assigns, or other legal representatives, to the end of the term or terms for which said Letters Patent of the United States or foreign countries are or may be granted or reissued, as fully and entirely as the same would have been held and enjoyed by us if this assignment and sale had not been made.

And we hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all Letters Patent of the United States on said invention or resulting from said application and from any and all divisions, continuations, continuations-in-part, and reissues thereof, to ASSIGNEE as assignee of my entire interest, and hereby covenant that we have the full right to convey the entire interest herein assigned, and that we have not executed and will not execute any agreement in conflict herewith.

And we further hereby covenant and agree that we will, at any time, upon request, execute and deliver any and all papers that may be necessary or desirable to perfect the title of said invention and to such Letters Patent as may be granted therefor, to ASSIGNEE, its successors, assigns, or other legal representatives and that if ASSIGNEE, its successors, assigns or other legal representatives shall desire to file any divisional or continuation applications or to secure a reissue of such Letters Patent, or to file a disclaimer relating thereto, will upon request, sign all papers, make all rightful oaths and do all lawful acts requisite for the filing of such divisional, continuation, or continuation-in-part application, or such application for reissue and the procuring thereof, and for the filing of such disclaimer, without further compensation but at the expense of said assignee, its successors, or other legal representatives.

And we do further covenant and agree that we will, at any time upon request, communicate to ASSIGNEE, its successors, assigns or other legal representatives, such facts relating to said invention and Letters Patent or the file history thereof as may be known to us, and testify as to the same in any interference or other litigation when requested so to do, without further compensation but at the expense of said assignee, its successors, or other legal representatives.

**Colin RAMSHAW****Roshan Jeet Jee JACHUCK****Michael JONES****Ian HENDERSON**