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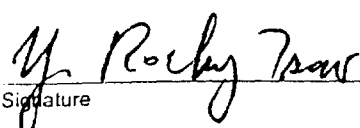


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| 4. Application number(s) or patent number(s): If this document is being filed with a new application, the execution date of the application is: A. Patent Application No(s): 09/297,004 B. Patent No(s): Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | |
| 5. Name/address of party to whom correspondence concerning document should be mailed: Y. ROCKY TSAO Fish & Richardson P.C. 225 Franklin Street Boston, Massachusetts 02110-2804 | 6. Total number of applications/patents involved: 1 7. Total fee (37 CFR §3.41): \$40 E <input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> Authorized to charge Deposit Account. 8. Deposit Account No.: 06-1050 Please apply any additional charges, or any credits, to our Deposit Account No. 06-1050. |
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PATENT
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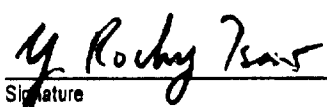
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Substitute Form PTO-1595
 Attorney Docket No.: 09347-000001
 Client's Ref. No.: SW.AVK.P31626US

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| <p>9. Statement and Signature: <i>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></p> <p>Y. Rocky Tsao Reg. No. 34,053 Name of Person Signing</p> <p> Signature</p> <p>9-20-01 Date</p> | |
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PATENT
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ASSIGNMENT

For valuable consideration, I, Joshua Swithenbank, of Sheffield, United Kingdom hereby assign to UNIVERSITY OF SHEFFIELD, a corporation having a place of business at Western Bank, Sheffield S10 2TN, United Kingdom, and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world, including, without limitation, the right to sue for past infringement, in the inventions and improvements which are subject of an application for United States Patent signed by me, entitled IMPROVEMENTS IN OR RELATING TO HEAT AND/OR MASS TRANSFER PROCESSES AND APPARATUS, filed April 23, 1999, and assigned U.S. Serial Number 09/297,004, and I authorize and request the attorneys appointed in said application to hereafter complete this assignment by inserting above the filing date and serial number of said application when known; this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and I authorize the Assignee to apply in all countries in my name or in its own name for patents, utility models, design registrations and like rights of exclusion, and for inventors' certificates for said inventions and improvements; and I agree for me and my respective heirs, legal representatives and assigns, without further compensation, to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

IN WITNESS WHEREOF, I hereto set my hand and seal at Sheffield
this 8 day of June, 1999
Joshua Swithenbank L.S.
Joshua Swithenbank

V.N. Sheikh 8 June 1999
Witness

Grace L.L. Fren 8/6/99
Witness
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