
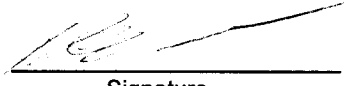


<div style="display: flex; justify-content: space-between;"> <div> <p>10/20/03 REC</p> <p>OMB No. 0651-0027 (exp. 6/30/2005)</p> <p>Tab settings → → → ▼ ▼</p> </div> <div> <p>10-23-2003</p>  <p>102582104</p> </div> <div> <p>U.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office</p> </div> </div>	
<p>To the Honorable Commissioner o. hed original documents or copy thereof.</p>	
<p>1. Name of conveying party(ies):</p> <p>Karl T. Chaung Alan R. Sanger Jingli Luo Stefan V. Slavov</p> <p>Additional name of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>2. Name and address of receiving party(ies)</p> <p>Name: <u>The Governors of the University of Alberta</u></p> <p>Internal Address: <u>222 Campus Tower</u></p> <p><u>8625-112 Street</u></p> <p>Street Address: _____</p> <p>City: <u>Edmonton</u> State: <u>AB</u> Zip: <u>T6G 2E1</u></p> <p>Additional Name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>3. Nature of conveyance:</p> <div style="display: flex; justify-content: space-between;"> <div> <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Security Agreement <input type="checkbox"/> Other </div> <div> <input type="checkbox"/> Merger <input type="checkbox"/> Change of Name </div> </div> <p>Execution Date: October 7, 2003</p>	
<p>4. Application number(s) or patent number(s):</p> <p>If this document is being filed together with a new application, the execution date of the application is:</p> <div style="display: flex;"> <div style="flex: 1;"> <p>A. Patent Application No.(s)</p> <p><u>10/415,885</u></p> </div> <div style="flex: 1;"> <p>B. Patent No.(s)</p> </div> </div> <p style="text-align: center;">Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	
<p>5. Name and address of party to whom correspondence concerning this document should be mailed:</p> <p>Name: <u>Philip C. Mendes da Costa</u></p> <p>Internal Address: <u>Bereskin & Parr</u></p> <p>Street Address: <u>40 King Street West</u></p> <p>City: <u>Toronto</u> State: <u>ON</u> Zip: <u>M5H 3Y2</u> CANADA</p>	<p>6. Total number of applications and patents involved: <u>1</u></p> <p>7. Total fee (37 CFR 3.41)\$ <u>40.00</u></p> <div style="margin-left: 20px;"> <input checked="" type="checkbox"/> Enclosed (cheque No. _____) <input type="checkbox"/> Authorized to be charged to deposit account </div> <p>8. Deposit account number:</p> <p><u>02-2095</u></p> <p>(Attach duplicate copy of this page if paying by deposit account)</p>
<p>DO NOT USE THIS SPACE</p>	
<p>9. Statement and signature.</p> <p><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> <div style="display: flex; justify-content: space-between; margin-top: 20px;"> <div> <p><u>Philip C. Mendes da Costa Reg. 33.106</u></p> <p>Name of Person Signing</p> <p>B&P File # 11157-62</p> </div> <div style="text-align: center;">  <p>Signature</p> </div> <div> <p><u>October 16, 2003</u></p> <p>Date</p> </div> </div> <p style="text-align: center; margin-top: 10px;">Total number of pages including cover sheet, attachments, and documents:</p>	

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Mail documents to be recorded with required cover sheet information to:
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Washington, D.C. 20231

PATENT
REEL: 014607 FRAME: 0953

ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of all of which is hereby acknowledged, WE, **Karl T. Chuang**, whose address is 8742-117 Street, Edmonton, Alberta, T6G 1R5, CANADA and **Alan R. Sanger**, whose address is 2833-123 Street, Edmonton, Alberta, T6J 6A6, Canada and **Jingli Luo**, whose address is 6403-129 Street, Edmonton, Alberta, T6H 3X9 and **Stefan V. Slavov**, whose address is 526-11121-82 Avenue, Edmonton, Alberta, T6G 0T4, Canada , hereby confirm that we have sold and assigned, and do hereby sell and assign to The Governors of the University of Alberta, whose address is 222 Campus Tower, 8625-112 Street, Edmonton, Alberta, T6G 2E1, Canada, as assignee, all our right, title and interest for Canada, the U.S. and all other countries in and to an invention entitled:

ELECTROCHEMICAL PROCESS FOR OXIDATION OF ALKANES TO ALKENES

as described and illustrated in PCT Application No. CA01/01603 lodged in Canada on November 9, 2001 and now lodged as United States Patent Application No. 10/415,885, and Canadian Patent Application No. 2,428,200 and all my right, title and interest in and to said patent application and in and to any divisions,

continuations, continuations-in-part, extensions of, and supplementary disclosures thereto, and in and to any patents that may be granted for said invention and in and to any additions or modifications to said invention.

We agree that we will without further consideration do all such things and execute all such documents as may be necessary or desirable to obtain and maintain patents for said invention and for additions and modifications thereto in any and all countries, and to vest title thereto in said assignee, its successors, assigns and legal representatives or nominees.

We authorize and empower said assignee, its successors, assigns and legal representatives or nominees, to invoke and claim for any application for patent or other form of protection for said invention or for additions and modifications thereto, filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it, and to invoke and claim such right of priority without further written or oral authorization from us.

The Commissioner of Patents & Trademarks is hereby authorized and requested to issue said Letters patent to said **The Governors of the University of Alberta**, the assignee of the entire right, title and interest in and to the same, for its sole use and benefit; and for the use and benefit of its successors and assigns, to

the full end of the term for which Letters Patent may be granted, as fully and entirely as the same would have been held by us had this assignment and sale not been made.

EXECUTED AT EDMONTON, ALBERTA, this 7th, day of OCTOBER, 2003.

Williams/Williams
Witness

Karl Chuang
Karl T. Chuang

EXECUTED AT EDMONTON, ALBERTA, this 7th, day of OCTOBER, 2003.

Williams/Williams
Witness

Alan R. Sanger
Alan R. Sanger

EXECUTED AT EDMONTON, ALBERTA, this 7th, day of OCTOBER, 2003.

Williams/Williams
Witness

Jingli Luo
Jingli Luo

EXECUTED AT EDMONTON, ALBERTA, this 7th, day of OCTOBER, 2003.

Williams/Williams
Witness

Stefan V. Slavov
Stefan V. Slavov

B&P # 11157-62 and 63