

## PATENT ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT						
NATURE OF CONVEYANCE:	ASSIGNMENT						
CONVEYING PARTY DATA							
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Calum Chisholm</td> <td>10/17/2012</td> </tr> <tr> <td>Alex Papandrew</td> <td>02/13/2013</td> </tr> </tbody> </table>		Name	Execution Date	Calum Chisholm	10/17/2012	Alex Papandrew	02/13/2013
Name	Execution Date						
Calum Chisholm	10/17/2012						
Alex Papandrew	02/13/2013						
RECEIVING PARTY DATA							
Name:	California Insitute of Technology, Office of Technology Transfer						
Street Address:	1200 E. California Blvd, MC 210-85						
City:	Pasadena						
State/Country:	CALIFORNIA						
Postal Code:	91125						
PROPERTY NUMBERS Total: 1							
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13627758</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13627758		
Property Type	Number						
Application Number:	13627758						
CORRESPONDENCE DATA							
Fax Number:	4155760300						
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>							
Phone:	4155760200						
Email:	sbrown@kiltown.com						
Correspondent Name:	Kilpatrick Townsend & Stockton LLP						
Address Line 1:	Two Embarcadero Center						
Address Line 2:	Eighth Floor						
Address Line 4:	San Francisco, CALIFORNIA 94111						
ATTORNEY DOCKET NUMBER:	90572-852236(001210US)						
NAME OF SUBMITTER:	Alex Trimble						
<p>Total Attachments: 3          source=90572-852236_ASSIGN#page1.tif          source=90572-852236_ASSIGN#page2.tif          source=90572-852236_ASSIGN#page3.tif</p>							

OP \$40.00 13627758

**ASSIGNMENT**  
(Patent Application)

We [I], the undersigned, have invented certain inventions and improvements disclosed in a utility (provisional or non-provisional) or design patent application entitled

**"EFFICIENT AND SIMPLE METHOD FOR METALORGANIC  
CHEMICAL VAPOR DEPOSITION,"**

filed with the U.S. Patent & Trademark Office on September 26, 2012

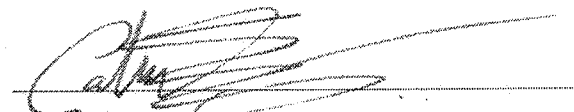
and assigned serial no. 13/627,758.

1. Agree to assign, transfer, convey, and sell, hereby assign, transfer, convey, and sell and have assigned, transferred, conveyed, and sold to California Institute of Technology, Office of Technology Transfer, a corporation of the State of California having a principal place of 1200 E. California Blvd, MC 210-85, Pasadena, CA 91125 ("Assignee"), the entire right, title, and interest in and to:
  - (a) all intellectual property (including, without limitation, any innovation, information, invention, discovery, product, process, work or design) disclosed, embodied, shown, or claimed in the above-referenced patent application, implicitly or explicitly;
  - (b) the above-referenced patent application, the right to claim priority to the above-referenced patent application, all applications based in whole or in part upon the above-referenced patent application, including, without limitation, all applications that are a provisional, non-provisional, design, divisional, continuation, continuation-in-part, registration, utility model, industrial design, reissue, renewal, substitute, extension, reexamination, post-grant review, inter partes review, supplemental examination or non-U.S. patent application or application for other rights based in whole or in part on the above-referenced patent application;
  - (c) all patents (including, without limitation, all U.S. and non-U.S. patents, registrations, utility models, industrial designs, design patents, counterparts, continuations, continuations-in-part, divisionals, reissues, renewals, substitutes, extensions, reexaminations, post-grant reviews, inter partes reviews and supplemental examinations) that are granted or issued upon, or that claim priority to, any and all applications described in (b) of this paragraph or that disclose or claim intellectual property described in (a) of this paragraph, in whole or in part; and

- (d) all claims for damages by reason of past infringement of any rights under the applications or patents described in (a), (b) or (c) of this paragraph (including provisional rights to reasonable royalties pursuant to 35 U.S.C. §154(d)) and the right to sue for and collect such damages and royalties for Assignee's own use.
2. Authorize and request the U.S. Patent and Trademark Office or any other U.S. or non-U.S. agency to issue to the Assignee any and all patent(s), or other rights or documents, resulting from the intellectual property, patent application(s) and patents described in paragraph 1 of this Assignment.
  3. Agree to sign all papers and documents, including without limitation, applications, declarations, oaths and petitions, and, at the Assignee's expense, perform any other acts that are necessary in connection with prosecution of patent application(s) or intellectual property described in paragraph 1 of this Assignment and the enforcement of patent(s) or other rights resulting from such patent application(s) or intellectual property.
  4. Agree that the terms, covenants, and conditions of this Assignment shall inure to the benefit of the Assignee, its successors, assigns and other legal representative, and shall be binding upon us [me], as well as our [my] heirs, legal representatives, and assigns.
  5. Promise and affirm that we [I] have not entered, and will not enter, into any assignment, contract, or understanding that conflicts with this Assignment.
  6. Authorize Kilpatrick Townsend & Stockton to insert above the application number and filing date of the above-described patent application when known.

Signed on the dates indicated beside our [my] signatures [signature].

Signature: \_\_\_\_\_

  
Calum Chisholm

Date: \_\_\_\_\_

10/17/12

Signature: \_\_\_\_\_

Alex Papandrew

Date: \_\_\_\_\_

- (d) all claims for damages by reason of past infringement of any rights under the applications or patents described in (a), (b) or (c) of this paragraph (including provisional rights to reasonable royalties pursuant to 35 U.S.C. §154(d)) and the right to sue for and collect such damages and royalties for Assignee's own use.
2. Authorize and request the U.S. Patent and Trademark Office or any other U.S. or non-U.S. agency to issue to the Assignee any and all patent(s), or other rights or documents, resulting from the intellectual property, patent application(s) and patents described in paragraph 1 of this Assignment.
  3. Agree to sign all papers and documents, including without limitation, applications, declarations, oaths and petitions, and, at the Assignee's expense, perform any other acts that are necessary in connection with prosecution of patent application(s) or intellectual property described in paragraph 1 of this Assignment and the enforcement of patent(s) or other rights resulting from such patent application(s) or intellectual property.
  4. Agree that the terms, covenants, and conditions of this Assignment shall inure to the benefit of the Assignee, its successors, assigns and other legal representative, and shall be binding upon us [me], as well as our [my] heirs, legal representatives, and assigns.
  5. Promise and affirm that we [I] have not entered, and will not enter, into any assignment, contract, or understanding that conflicts with this Assignment.
  6. Authorize Kilpatrick Townsend & Stockton to insert above the application number and filing date of the above-described patent application when known.

Signed on the dates indicated beside our [my] signatures [signature].

Signature: \_\_\_\_\_

Calum Chisholm

Date: \_\_\_\_\_

Signature: \_\_\_\_\_

Alex Papandrew

Date: 2/13/13

64573309v.1