

PATENT ASSIGNMENT

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 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>ANDREW P. BUNGER</td> <td>07/12/2013</td> </tr> <tr> <td>ROBERT G. JEFFREY</td> <td>07/11/2013</td> </tr> <tr> <td>XI ZHANG</td> <td>07/15/2013</td> </tr> <tr> <td>JAMES KEAR</td> <td>07/11/2013</td> </tr> </tbody> </table>		Name	Execution Date	ANDREW P. BUNGER	07/12/2013	ROBERT G. JEFFREY	07/11/2013	XI ZHANG	07/15/2013	JAMES KEAR	07/11/2013
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RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION</td> </tr> <tr> <td>Street Address:</td> <td>LIMESTONE AVENUE</td> </tr> <tr> <td>City:</td> <td>CAMPBELL, AUSTRALIAN CAPITAL TERRITORY</td> </tr> <tr> <td>State/Country:</td> <td>AUSTRALIA</td> </tr> <tr> <td>Postal Code:</td> <td>2612</td> </tr> </table>		Name:	COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION	Street Address:	LIMESTONE AVENUE	City:	CAMPBELL, AUSTRALIAN CAPITAL TERRITORY	State/Country:	AUSTRALIA	Postal Code:	2612
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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>13979922</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13979922						
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Application Number:	13979922										
CORRESPONDENCE DATA											
Fax Number: 4045414638 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> Phone: 404-815-6500 Email: lkimsey@kilpatricktownsend.com Correspondent Name: John S. Pratt, Esq. Address Line 1: Kilpatrick Townsend & Stockton LLP Address Line 2: 1100 Peachtree Street, Suite 2800 Address Line 4: ATLANTA, GEORGIA 30309											
ATTORNEY DOCKET NUMBER:	33745-880593										
NAME OF SUBMITTER:	Lucy Kimsey										
Signature:	/Lucy Kimsey/										

PATENT

Date:

07/16/2013

Total Attachments: 6

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ASSIGNMENT
(Patent Application)

We, the undersigned, have invented certain inventions and improvements disclosed in a utility non-provisional patent application entitled

"HYDRAULIC FRACTURING"

filed with the U.S. Patent & Trademark Office on July 16, 2013

and assigned serial no. 13/979,922.

For one dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which we acknowledge, we:

1. Agree to assign, transfer, convey, and sell, hereby assign, transfer, convey, and sell and have assigned, transferred, conveyed, and sold to Commonwealth Scientific and Industrial Research Organisation, having a principal place of business at Limestone Avenue, Campbell, Australian Capital Territory 2612, Australia ("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

ASSIGNMENT

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- (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, as well as our heirs, legal representatives, and assigns.
 5. Promise and affirm that we have not entered, and will not enter, into any assignment, contract, or understanding that conflicts with this Assignment.
 6. Authorize Kilpatrick Townsend & Stockton LLP to insert above the application number and filing date of the above-described patent application when known.

PATENT

REEL: 030812 FRAME: 0130

ASSIGNMENT
U.S. Serial No. 13/979,922
Page 3 of 6

Signed on the date indicated beside my signature.

Signature: _____

Andrew P. Bunker

Date: 12 July 2013

Witnesses:

1. Signed: _____

Printed Name: _____

Address: _____

Bryan Snyder
BRYANNA Snyder
3700 O'Hara St. 742 Boudin
Pittsburgh, PA 15261

2. Signed: _____

Printed Name: _____

Address: _____

Erin M. Golen
ERIN M. GOLEN
3700 O'Hara St
Pittsburgh, PA 15261

PATENT

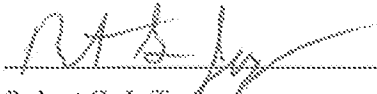
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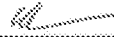
Page 4 of 6

Signed on the date indicated beside my signature.

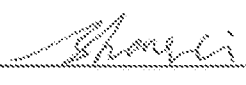
Signature: 
Robert G. Jeffrey

Date: 11 July 2013

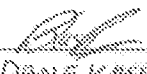
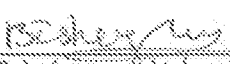
Witnesses:

1. Signed: 
Printed Name: Christopher Green
Address: 71 Normans Road
Clayton, N.H. 31688
2. Signed: 
Printed Name: Dane Kasperczyk
Address: 31 Normans Rd
Clayton, NH 31688

Signed on the date indicated beside my signature.

Signature:  Date: 15/7/2013
Xi Zhang

Witnesses:

1. Signed: 
Printed Name: DANE KASPERL
Address: 71 NORMANBY ROAD
CLAYTON 3168
2. Signed: 
Printed Name: Bisheng Wu
Address: 71 NORMANBY ROAD
CLAYTON 3168

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U.S. Serial No. 13/979,922

Page 6 of 6

Signed on the date indicated beside my signature.

Signature: _____

James Kear

Date: _____

11 July 2013

Witnesses:

1.

Signed: _____

Printed Name: _____

Address: _____

Christopher Green

71 Normandy Road

Clayton, VA, VC 26033

2.

Signed: _____

Printed Name: _____

Address: _____

Dane Kasperczyk

71 Normandy Road

Clayton, VA 26033