

PATENT ASSIGNMENT

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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>Burl Edward DAVIS</td> <td>08/13/2012</td> </tr> <tr> <td>Clifford William MALLET</td> <td>09/12/2012</td> </tr> <tr> <td>Marion Russell MARK</td> <td>09/07/2012</td> </tr> </tbody> </table>	Name	Execution Date	Burl Edward DAVIS	08/13/2012	Clifford William MALLET	09/12/2012	Marion Russell MARK	09/07/2012	
Name	Execution Date								
Burl Edward DAVIS	08/13/2012								
Clifford William MALLET	09/12/2012								
Marion Russell MARK	09/07/2012								
RECEIVING PARTY DATA									
Name:	Carbon Energy Limited								
Street Address:	Level 12								
Internal Address:	301 Coronation Drive								
City:	Milton, Queensland								
State/Country:	AUSTRALIA								
Postal Code:	4064								
PROPERTY NUMBERS Total: 1									
Property Type	Number								
Application Number:	13536082								
CORRESPONDENCE DATA									
Fax Number:	6508332001								
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>									
Phone:	650-833-2000								
Email:	patentdocketingUS-paloalto@dlapiper.com								
Correspondent Name:	DLA Piper LLP								
Address Line 1:	2000 University Avenue								
Address Line 4:	East Palo Alto, CALIFORNIA 94303-2215								
ATTORNEY DOCKET NUMBER:	377180-991100								
NAME OF SUBMITTER:	Jason Lee								
Total Attachments: 4 source=Carbon Energy-991100-Assignment#page1.tif source=Carbon Energy-991100-Assignment#page2.tif source=Carbon Energy-991100-Assignment#page3.tif source=Carbon Energy-991100-Assignment#page4.tif									

CH \$40.00 13536082

ASSIGNMENT

WHEREAS, BURL EDWARD DAVIS, CLIFFORD WILLIAM MALLETT and MARION RUSSELL MARK made certain inventions or discoveries (or both) set forth in an Application for Letters Patent of the United States of America entitled

SACRIFICIAL LINER LINKAGES FOR AUTO-SHORTENING AN INJECTION PIPE FOR UNDERGROUND COAL GASIFICATION

_____ issued as U.S. Patent No. _____
X filed as Serial No. 13/536,082 on June 28, 2012
_____ filed herewith

WHEREAS, Carbon Energy Limited, an Australian company whose address is Level 12, 301 Coronation Drive, Milton, Queensland 4064, Australia, and who, together with its successors and assigns is hereinafter called "Assignee", is desirous of acquiring the entire right, title and interest together with the benefits and privileges hereinafter recited;

NOW, THEREFORE, for valuable consideration furnished by Assignee to me, receipt and sufficiency of which I hereby acknowledge, effective as of the date signed, I hereby, without reservation;

1. Assign, transfer and convey to Assignee the entire right, title and interest together with the benefits and privileges in and to said inventions and discoveries, said Application for Letters Patent or similar forms of protection of the United States of America, and all other applications for Letters Patent on said inventions and discoveries in whatsoever countries, including all divisional, renewal, substitute, continuation and convention applications based in whole or in part upon said inventions or discoveries, or upon said application, and any and all Letters Patent, reissues and extensions of Letters Patent or similar forms of protection granted for said inventions and discoveries or upon said applications, and every priority right that is or may be predicated upon or arise from said inventions, said discoveries, said applications and said Letters Patent;
2. Authorize Assignee to file patent applications in any or all countries or groups of countries on any or all of said inventions and discoveries in our name or in the name of Assignee or otherwise as Assignee may deem advisable, under the International Convention or any other relevant convention or treaty or otherwise;
3. Authorize and request the Commissioner of Patents and Trademarks of the United States of America and the empowered officials of all other governments to issue or transfer all said Letters Patent to Assignee, as assignee of the entire right, title and interest therein, or otherwise as Assignee may direct;
4. Warrant that I have not knowingly conveyed to others any rights in said inventions, discoveries, applications or patents or any license to use the same or to make, use or sell anything embodying or utilizing any of said inventions or discoveries; and that I have good right to assign the same to Assignee without encumbrance;
5. Bind my heirs, legal representatives and assigns, as well as myself, to do, upon Assignee's request and at Assignee's expense, but without additional consideration to me or them, all acts reasonable serving to assure that said inventions and discoveries, said patent

ATTORNEY DOCKET NO. 377180-991100

applications and said Letters Patent shall be held and enjoyed by Assignee as fully and entirely as the same could have been held and enjoyed by me, my heirs, legal representatives and assigns if this assignment had not been made; and particularly to execute and deliver to Assignee all lawful application documents including petitions, specifications, and oaths, and all assignments, disclaimers, and lawful affidavits in form and substance as may be requested by Assignee; to communicate to Assignee all facts known to me relating to said inventions and discoveries or the history thereof; and to furnish Assignee with any and all documents, photographs, models, samples and other physical exhibits in my control or in the control of my heirs, legal representatives or assigns which may be useful for establishing any facts of my conceptions, disclosures, and reduction to practice of said inventions or discoveries.

6. Grant the attorneys of record the power to insert on this Assignment the serial number of said Application as further identification of said Application in order to comply with the rules of the United States Patent and Trademark Office for recordation of this Assignment.

This Assignment may be executed in one or more counterparts, each of which shall be deemed an original and all of which may be taken together as one and the same Assignment.

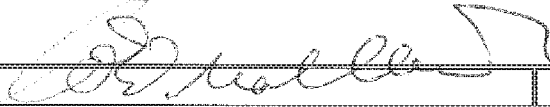
IN WITNESS WHEREOF:


<i>Burl Edward Davis</i>		<i>8/13/12</i>
BURL EDWARD DAVIS		Date

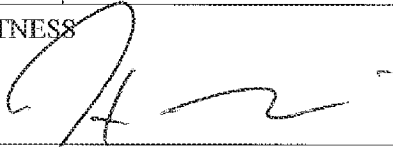
Melinda O'Neil
WITNESS

Barbara J Davis
WITNESS

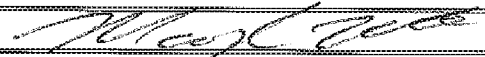

IN WITNESS WHEREOF:

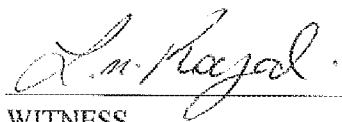
		12 September 2012
CLIFFORD WILLIAM MALLET		Date

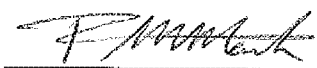

WITNESS


WITNESS

IN WITNESS WHEREOF:

		
MARION RUSSELL MARK		Date


WITNESS


WITNESS