

**PATENT ASSIGNMENT**

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
Dennis R. Cash	01/26/2012
Graham J. Forder	01/26/2012
Joel W. Rosenthal	01/26/2012
David S. Mitchel	01/26/2012
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<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	94903
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	13358495
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<b>Total Attachments: 1</b> source=Assignment of Patent Rights-Completed#page1.tif	

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**ASSIGNMENT OF PATENT RIGHTS**

WE,

1. Dennis R. Cash (ASSIGNOR),
2. Graham J. Forder (ASSIGNOR),
3. David S. Mitchell (ASSIGNOR) and
4. Joel W. Rosenthal (ASSIGNOR):

For good and valuable consideration, the receipt and adequacy of which is hereby acknowledged, do hereby sell and assign to 4CRGROUP, LLC (ASSIGNEE), of San Rafael, California its successors, assigns and legal representatives all my/our right, title and interest, in and for the United States of America, in and to the invention entitled:

**Two-stage, Close-coupled, Dual-catalytic Heavy Oil Hydroconversion Process**  
Invented by us and described in the patent application:

USPTO Serial No. 13/358,495

Filed: January 25, 2012

and all United States Letters Patent which may be granted there-for, and all divisions, reissues, continuations and extensions thereof, the said interest being the entire ownership of the said Letters Patent when granted, to be held and enjoyed by the said ASSIGNEE, its successors, assigns or other legal representatives, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by me/us if this assignment and sale had not been made;

And I/we hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to the said ASSIGNEE.

Signed:

Dennis R. Cash  
Dennis R. Cash

1/26/2012  
Date

Graham J. Forder  
Graham J. Forder

1/26/2012  
Date

David S. Mitchell  
David S. Mitchell

1/26/2012  
Date

Joel W. Rosenthal  
Joel W. Rosenthal

1/26/2012  
Date

FCRG-11812