

## 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>Harold J. VINEGAR</td> <td>09/28/2012</td> </tr> <tr> <td>John Michael KARANIKAS</td> <td>06/25/2012</td> </tr> </tbody> </table>		Name	Execution Date	Harold J. VINEGAR	09/28/2012	John Michael KARANIKAS	06/25/2012
Name	Execution Date						
Harold J. VINEGAR	09/28/2012						
John Michael KARANIKAS	06/25/2012						
RECEIVING PARTY DATA							
Name:	SHELL OIL COMPANY						
Street Address:	P.O. BOX 2463						
Internal Address:	ONE SHELL PLAZA						
City:	Houston						
State/Country:	TEXAS						
Postal Code:	77252-2463						
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>13485464</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13485464		
Property Type	Number						
Application Number:	13485464						
CORRESPONDENCE DATA							
Fax Number:	7132416617						
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>							
Phone:	7132413997						
Email:	CHARLES.WISE@SHELL.COM						
Correspondent Name:	SHELL OIL COMPANY						
Address Line 1:	P.O. Box 2463						
Address Line 2:	ONE SHELL PLAZA						
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ATTORNEY DOCKET NUMBER:	TH3382(US) 03						
NAME OF SUBMITTER:	Del S. Christensen						
Total Attachments: 2 source=TH3382US03-Assignment#page1.tif source=TH3382US03-Assignment#page2.tif							

CH \$40.00 13485464

ASSIGNMENT

WHEREAS, we, Harold J. VINEGAR and John Michael KARANIKAS, have made a certain improvement in TREATING TAR SANDS FORMATIONS WITH DOLOMITE for which application papers for United States Patent thereon, identified as TH3382(US) 03, have been executed by us, and,

WHEREAS, SHELL OIL COMPANY, a Delaware Corporation, has equitable rights in and to this invention and desires to confirm such rights and to acquire all right, title and interest in and to said invention;

NOW THEREFORE, for valuable consideration received, we hereby sell, assign, and transfer to said SHELL OIL COMPANY, its successors and assigns, all right, title and interest in and to said invention in the United States and in all other countries throughout the world; including without limitation those in and to the above-named application and any continuation, substitute or division application thereof and the patent or patents which may be issued thereon in the United States and any reissue of any such patent, and those in and to any application or patent or utility model in any and all such other countries of the world, and further including the right to file further applications in all countries throughout the world in the name of SHELL OIL COMPANY or whomsoever that company may nominate, and to claim the priority of the above-named United States application under the International Convention of Paris of 1883.

With respect to any country where for the filing of such an application and/or the transfer of priority rights a separate deed of sale, assignment or transfer is required, we will undertake at the request of SHELL OIL COMPANY to execute such separate deed to SHELL OIL COMPANY or to whomsoever that company may nominate.

And we hereby agree that we will upon request execute any instrument which SHELL OIL COMPANY desires to carry this assignment in effect, and perfect the title transferred hereby, or to prosecute any of the above-mentioned United States applications or any foreign application on this invention.

And the Commissioner of Patents of the United States is hereby authorized to issue Letters Patent on said above-named application and on any continuation, substitute or division thereof to SHELL OIL COMPANY.

IN TESTIMONY WHEREOF, we have hereunto subscribed our names.

Witnesses:

Harold J. Vinegar  
Harold J. VINEGAR

9/28/12  
Date

\_\_\_\_\_  
John Michael KARANIKAS

\_\_\_\_\_  
Date

Ralph B. Vinegar  
(Witness)

[Signature]  
(Witness)

\_\_\_\_\_  
(Witness)

\_\_\_\_\_  
(Witness)

ASSIGNMENT

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Witnesses:

\_\_\_\_\_  
Harold J. VINEGAR

\_\_\_\_\_  
(Witness)

\_\_\_\_\_  
Date  
*John Michael Karanikas*  
John Michael KARANIKAS

\_\_\_\_\_  
(Witness)  
*Richard A. Macleod*  
(Witness)

\_\_\_\_\_  
*June 25<sup>th</sup>, 2012*  
Date

\_\_\_\_\_  
*Gary J Ross*  
(Witness)