

## 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>Nathan Earl PERKINS III</td> <td>11/06/2011</td> </tr> <tr> <td>John Charles SAUKAITIS</td> <td>11/03/2011</td> </tr> </tbody> </table>		Name	Execution Date	Nathan Earl PERKINS III	11/06/2011	John Charles SAUKAITIS	11/03/2011
Name	Execution Date						
Nathan Earl PERKINS III	11/06/2011						
John Charles SAUKAITIS	11/03/2011						
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:	772522463						
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>13282295</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13282295		
Property Type	Number						
Application Number:	13282295						
CORRESPONDENCE DATA							
Fax Number:	(713)241-6617						
Phone:	7132415581						
Email:	CHARLES.WISE@SHELL.COM						
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>							
Correspondent Name:	SHELL OIL COMPANY						
Address Line 1:	P.O. BOX 2463						
Address Line 2:	ONE SHELL PLAZA						
Address Line 4:	HOUSTON, TEXAS 772522463						
ATTORNEY DOCKET NUMBER:	TH4230(US)						
NAME OF SUBMITTER:	Charles W. Stewart						
Total Attachments: 4 source=TH4230Assignment#page1.tif source=TH4230Assignment#page2.tif source=TH4230Assignment#page3.tif source=TH4230Assignment#page4.tif							

CH \$40.00 13282295

ASSIGNMENT

WHEREAS, we, Nathan Earl PERKINS II and John Charles SAUKAITIS, have made a certain improvement in METHOD FOR PREPARING A PALLADIUM-GOLD ALLOY GAS SEPARATION MEMBRANE SYTEM for which application papers for United States Patent thereon, identified as TH4230(US), 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.


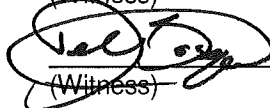
And we hereby agree that we will upon request execute any instrument which SHELL OIL COMPANY desires to carry this assignment in effect, and perfect the title transferred hereby, or to prosecute any of the above-mentioned United States applications or any foreign application on this invention.

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:

  
\_\_\_\_\_  
Nathan Earl PERKINS II  
11/6/2011  
\_\_\_\_\_  
Date

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

\_\_\_\_\_  
John Charles SAUKAITIS

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

\_\_\_\_\_  
Date

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

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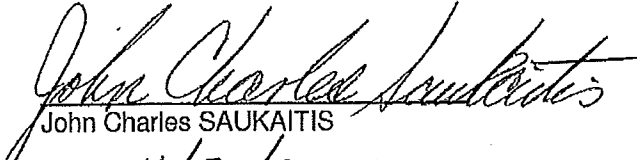
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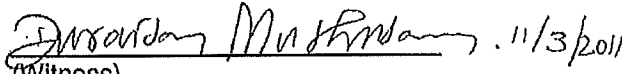
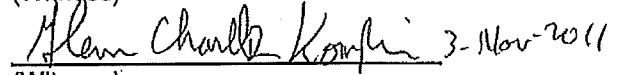
\_\_\_\_\_  
Nathan Earl PERKINS II

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

\_\_\_\_\_  
Date

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

  
John Charles SAUKAITIS  
\_\_\_\_\_  
11/3/2011  
Date

 11/3/2011  
(Witness)  
 3-Nov-2011  
(Witness)