PATENT ASSIGNMENT COVER SHEET

SUBMISSION TYPE: NEW ASSIGNMENT

NATURE OF CONVEYANCE: ASSIGNMENT

CONVEYING PARTY DATA

<table>
<thead>
<tr>
<th>Name</th>
<th>Execution Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>TED H. Cymbaluk</td>
<td>03/26/2014</td>
</tr>
<tr>
<td>MAX P. Mcdaniel</td>
<td>03/17/2014</td>
</tr>
<tr>
<td>QING Yang</td>
<td>03/17/2014</td>
</tr>
<tr>
<td>DENNIS L. Holtermann</td>
<td>03/10/2014</td>
</tr>
<tr>
<td>TONY R. Crain</td>
<td>03/17/2014</td>
</tr>
</tbody>
</table>

RECEIVING PARTY DATA

<table>
<thead>
<tr>
<th>Name:</th>
<th>CHEVRON PHILLIPS CHEMICAL COMPANY LP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Street Address:</td>
<td>10001 SIX PINES DRIVE</td>
</tr>
<tr>
<td>City:</td>
<td>THE WOODLANDS</td>
</tr>
<tr>
<td>State/Country:</td>
<td>TEXAS</td>
</tr>
<tr>
<td>Postal Code:</td>
<td>77380</td>
</tr>
</tbody>
</table>

PROPERTY NUMBERS Total: 1

<table>
<thead>
<tr>
<th>Property Type</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Application Number</td>
<td>14151848</td>
</tr>
</tbody>
</table>

CORRESPONDENCE DATA

Fax Number: (612)332-9081

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.

Phone: 612-332-5300

Email: USPTO66767@merchantgould.com

Correspondent Name: MERCHANT & GOULD CHEVRON PHILLIPS

Address Line 1: P.O. BOX 2903

Address Line 4: MINNEAPOLIS, MINNESOTA 55402-0903

ATTORNEY DOCKET NUMBER: 60293.0110US01

NAME OF SUBMITTER: TODD J. OBIJESKI

SIGNATURE: /Todd J. Obijeski/

DATE SIGNED: 04/08/2014

Total Attachments: 4

csource=0110us01_Assignment_040814#page1.tif

csource=0110us01_Assignment_040814#page2.tif
ASSIGNMENT

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and adequacy of which are hereby acknowledged, the undersigned, do hereby:

SELL, ASSIGN AND TRANSFER to Chevron Phillips Chemical Company LP (the "Assignee"), a corporation of the State of Delaware, having a place of business at 10001 Six Pines Drive, The Woodlands, Texas 77380, the entire right, title and interest for the United States and all foreign countries in and to any and all improvements which are disclosed in the application for United States Letters Patent, which has been executed by the undersigned concurrently herewith and is entitled "PROCESSES FOR PREPARING METALLOCENE-BASED CATALYST SYSTEMS," with joint inventors Ted H. Cymbaluk, Max P. McDaniel, Qing Yang, Dennis L. Holtermann, and Tony R. Crain, filed in the U.S. Patent and Trademark Office on January 10, 2014, and assigned Serial No. 14/151,848; such application and all divisional, continuing, substitute, renewal, reissue and all other applications for patent which have been or shall be filed in the United States and all foreign countries on any of such improvements; all original and reissued patents which have been or shall be issued in the United States and all foreign countries on such improvements; and specifically including the right to file foreign applications under the provisions of any convention or treaty and claim priority based on such application in the United States;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such improvements to the Assignee;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by the undersigned, and that the full right to convey the same as herein expressed is possessed by the undersigned;

COVENANT, when requested and at the expense of the Assignee, to carry out in good faith the intent and purpose of this assignment, the undersigned will (1) execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all such improvements; (2) execute all rightful oaths, declarations, assignments, powers of attorney and other papers; (3) communicate to the Assignee all facts known to the undersigned relating to such improvements and the history thereof; (4) cooperate with the Assignee in any interference, opposition, dispute, or litigation involving any of the applications or patents for such improvements; and (5) generally do everything possible which the Assignee shall consider desirable for vesting title to such improvements in the Assignee, and for securing, maintaining and enforcing proper patent protection for such improvements;

TO BE BINDING on the heirs, assigns, representatives and successors of the undersigned and extend to the successors, assigns and nominees of the Assignee.

(Signature): __________________________ Name: TED H. CYMBALUK Date: 3/26/2014

STATE OF __________________________ §

COUNTY OF __________________________ § ss.

BEFORE ME, the undersigned authority, on this 26th day of MARCH, 2014, personally appeared TED H. CYMBALUK, known to me to be the person whose name subscribed to the foregoing instrument and acknowledged to me that he executed the same of his own free will for the purposes and consideration therein expressed.

PATRICIA F JOHNSON
Notary or Consular Officer

[SEAL]

7660086-1
(Signature): Max P. McDaniel  
Name: MAX P. McDANIEL  
Date: Mar 17, 2014

STATE OF Oklahoma §  
COUNTY OF Washington §

BEFORE ME, the undersigned authority, on this 17th day of March, 2014, personally appeared MAX P. McDANIEL, known to me to be the person whose name subscribed to the foregoing instrument and acknowledged to me that he executed the same of his own free will for the purposes and consideration therein expressed.

D. Renee Gagan  
Notary or Consular Officer

[SEAL]

(Signature): QING YANG  
Name: QING YANG  
Date: 3/17/2014

STATE OF Oklahoma §  
COUNTY OF Washington §

BEFORE ME, the undersigned authority, on this 17th day of March, 2014, personally appeared QING YANG, known to me to be the person whose name subscribed to the foregoing instrument and acknowledged to me that he executed the same of his own free will for the purposes and consideration therein expressed.

D. Renee Gagan  
Notary or Consular Officer

[SEAL]
Name: DENNIS L. HOLTERMANN

STATE OF

COUNTY OF

BEFORE ME, the undersigned authority, on this 10th day of March, 2014, personally appeared DENNIS L. HOLTERMANN, known to me to be the person whose name subscribed to the foregoing instrument and acknowledged to me that he executed the same of his own free will for the purposes and consideration therein expressed.

Rhonda J. Howell
Notary or Consular Officer

[SEAL]

Name: TONY R. CRAIN

STATE OF

COUNTY OF

BEFORE ME, the undersigned authority, on this day of , 2014, personally appeared TONY R. CRAIN, known to me to be the person whose name subscribed to the foregoing instrument and acknowledged to me that he executed the same of his own free will for the purposes and consideration therein expressed.

[SEAL]
(Signature): 

Name: DENNIS L. HOLTERMANN 
Date: 

STATE OF § s. 
COUNTY OF § s. 

BEFORE ME, the undersigned authority, on this ______ day of _____________, 2014, personally appeared DENNIS L. HOLTERMANN, known to me to be the person whose name subscribed to the foregoing instrument and acknowledged to me that he executed the same of his own free will for the purposes and consideration therein expressed.

[SEAL]

(Signature): TONY R. CRAIN

Name: TONY R. CRAIN 
Date: 3/17/2014 

STATE OF Oklahoma § s. 
COUNTY OF Washington § s. 

BEFORE ME, the undersigned authority, on this 17th day of March, 2014, personally appeared TONY R. CRAIN, known to me to be the person whose name subscribed to the foregoing instrument and acknowledged to me that he executed the same of his own free will for the purposes and consideration therein expressed.

[SEAL]

D. Renee Gagan 
Notary or Consular Officer

D. RENEE GAGAN 
Notary Public, State of Oklahoma 
Commission # 10003898 
My Commission Expires May 11, 2014