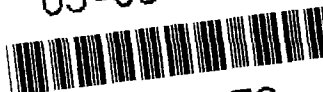




03-03-2005



DEPARTMENT OF COMMERCE  
Patent and Trademark Office

210604US01 (4081-05601)

PATENT ONLY 102951376

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

**1. Name of conveying party(ies)/Execution Date(s):**

Kenneth D. Hope  
Donald A. Stern  
Elizabeth A. Benham

Execution Date(s) Hope (11/29/04); Stern (11/29/04); Benham (11/29/04)

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

**3. Nature of conveyance:**

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Government Interest Assignment  
☐ Executive Order 9424, Confirmatory License  
☐ Other \_\_\_\_\_

**2. Name and address of receiving party(ies)**

Name: Chevron Phillips Chemical Company LP

Internal Address: \_\_\_\_\_

Street Address: 10001 Six Pines Drive

City: The Woodlands

State: Texas

Country: U.S.A. Zip: 77380

Additional name(s) & address(es) attached? ☐ Yes ☒ No

**4. Application or patent number(s):**

A. Patent Application No.(s)

10/978,547 filed November 1, 2004

☐ This document is being filed together with a new application.

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

**5. Name and address to whom correspondence concerning document should be mailed:**

Name: Rodney B. Carroll

Internal Address: \_\_\_\_\_

Street Address: 5700 Granite Parkway

Suite 330

City: Plano

State: Texas Zip: 75024

Phone Number: (972) 731-2288

Fax Number: (972) 731-2289

Email Address: rcarroll@dfw.conleyrose.com

**6. Total number of applications and patents involved:**

1

**7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00**

- ☐ Authorized to be charged by credit card  
☐ Authorized to be charged to deposit account  
☒ Enclosed  
☐ None required (government interest not affecting title)

**8. Payment Information**

a. Credit Card Last 4 Numbers \_\_\_\_\_  
Expiration Date \_\_\_\_\_

b. Deposit Account Number 50-1515

Authorized User Name Rodney B. Carroll

**9. Signature:**

Signature

Rodney B. Carroll  
Name of Person Signing

2-24-05

Date

Total number of pages including cover sheet, attachments, and documents:

5

Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to:  
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

03/01/2005 EHAILE1 00000013 10978547

02 FC:8021

40.00 DP

PATENT  
REEL: 016310 FRAME: 0240

**ASSIGNMENT**

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and adequacy of which are hereby acknowledged, the undersigned, does 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 Dr., The Woodlands, Texas 77387**, 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, entitled "**METHOD AND SYSTEM TO CONTACT AN IONIC LIQUID CATALYST WITH OXYGEN TO IMPROVE A CHEMICAL REACTION**," Serial No. 10/978,547, filed November 1, 2004, such application and all divisional, continuing, provisional, non-provisional, regular, 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, provisional, non-provisional, regular, 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): Kenneth D. Hope  
Kenneth D. Hope

Date: 11/21/04

STATE OF TEXAS

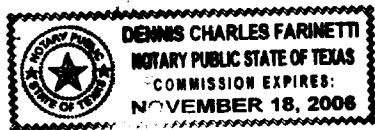
§

COUNTY OF HARRIS

§ ss.

§

BEFORE ME, the undersigned authority, on this 29 day of NOVEMBER, 2004, personally appeared **KENNETH D. HOPE** 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]

Dennis Charles Farinetti  
Notary or Consular Officer

(Signature): Donald A. Stern  
Donald A. Stern

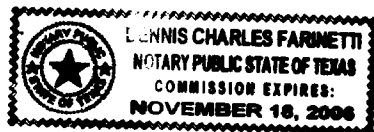
Date: Nov. 29, 2004

STATE OF TEXAS

§  
§ ss.  
§

COUNTY OF HARRIS

BEFORE ME, the undersigned authority, on this 29 day of November, 2004, personally appeared **DONALD A. STERN** 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.



Dennis Charles Farnetti  
Notary or Consular Officer

[SEAL]

(Signature): Elizabeth A. Benham  
Elizabeth A. Benham

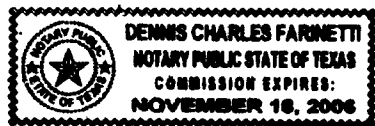
Date: Nov. 29, 2004

STATE OF TEXAS

§  
§ ss.  
§

COUNTY OF HARRIS

BEFORE ME, the undersigned authority, on this 29 day of NOVEMBER, 2004, personally appeared **ELIZABETH A. BENHAM** 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.



Dennis Charles Farnetti  
Notary or Consular Officer

[SEAL]