

PATENT ASSIGNMENT COVER SHEET

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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>AHMAD MORADI-ARAGHI</td> <td>12/04/2013</td> </tr> <tr> <td>MIN CHENG</td> <td>12/02/2013</td> </tr> <tr> <td>RILEY B. NEEDHAM</td> <td>12/02/2013</td> </tr> <tr> <td>JAMES H. HEDGES</td> <td>12/03/2013</td> </tr> <tr> <td>DAVID ZORNES</td> <td>11/30/2013</td> </tr> <tr> <td>FAYE L. SCULLY</td> <td>12/02/2013</td> </tr> <tr> <td>JAMES JOHNSON</td> <td>12/02/2013</td> </tr> </tbody> </table> | | Name | Execution Date | AHMAD MORADI-ARAGHI | 12/04/2013 | MIN CHENG | 12/02/2013 | RILEY B. NEEDHAM | 12/02/2013 | JAMES H. HEDGES | 12/03/2013 | DAVID ZORNES | 11/30/2013 | FAYE L. SCULLY | 12/02/2013 | JAMES JOHNSON | 12/02/2013 |
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| FAYE L. SCULLY | 12/02/2013 | | | | | | | | | | | | | | | | |
| JAMES JOHNSON | 12/02/2013 | | | | | | | | | | | | | | | | |
| RECEIVING PARTY DATA | | | | | | | | | | | | | | | | | |
| <table border="1"> <tr> <td>Name:</td> <td>CONOCOPHILLIPS COMPANY</td> </tr> <tr> <td>Street Address:</td> <td>600 N. DAIRY ASHFORD</td> </tr> <tr> <td>Internal Address:</td> <td>MA 1135</td> </tr> <tr> <td>City:</td> <td>HOUSTON</td> </tr> <tr> <td>State/Country:</td> <td>TEXAS</td> </tr> <tr> <td>Postal Code:</td> <td>77079</td> </tr> </table> | | Name: | CONOCOPHILLIPS COMPANY | Street Address: | 600 N. DAIRY ASHFORD | Internal Address: | MA 1135 | City: | HOUSTON | State/Country: | TEXAS | Postal Code: | 77079 | | | | |
| Name: | CONOCOPHILLIPS COMPANY | | | | | | | | | | | | | | | | |
| Street Address: | 600 N. DAIRY ASHFORD | | | | | | | | | | | | | | | | |
| Internal Address: | MA 1135 | | | | | | | | | | | | | | | | |
| City: | HOUSTON | | | | | | | | | | | | | | | | |
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| Postal Code: | 77079 | | | | | | | | | | | | | | | | |
| PROPERTY NUMBERS Total: 2 | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>61185626</td> </tr> <tr> <td>Application Number:</td> <td>12797402</td> </tr> </tbody> </table> | | Property Type | Number | Application Number: | 61185626 | Application Number: | 12797402 | | | | | | | | | | |
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| Application Number: | 61185626 | | | | | | | | | | | | | | | | |
| Application Number: | 12797402 | | | | | | | | | | | | | | | | |
| CORRESPONDENCE DATA | | | | | | | | | | | | | | | | | |
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| Phone: | 832.369.7852 | | | | | | | | | | | | | | | | |
| Email: | patent@boulwarevaloir.com | | | | | | | | | | | | | | | | |
| <i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i> | | | | | | | | | | | | | | | | | |
| Correspondent Name: | BOULWARE & VALOIR | | | | | | | | | | | | | | | | |
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| Address Line 2: | SUITE 950 | | | | | | | | | | | | | | | | |

Address Line 4: HOUSTON, TEXAS 77056

ATTORNEY DOCKET NUMBER: COP:41084US

NAME OF SUBMITTER: CHRIS WEST

Signature: /Chris West/

Date: 12/05/2013

Total Attachments: 4

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ASSIGNMENT

WHEREAS, we, Ahmad MORADI-ARAGHI, Min CHENG, Riley B. NEEDHAM, James H. HEDGES, David ZORNES, James JOHNSON, and Faye L. SCULLY, hereinafter referred to as "ASSIGNORS," are joint inventors of the invention, patent applications and patents described in attached Exhibit A.

WHEREAS, ConocoPhillips Company, located at 600 N. Dairy Ashford, MA 1135, Houston, TX, 77079, hereinafter referred to as "ASSIGNEE," is desirous of acquiring an interest in the invention and applications and in any letters patent that may be granted on the same;

THEREFORE, in exchange for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNORS hereby assign to ASSIGNEE the entire right, title and interest in and to said invention, said applications and any and all letters patent which may be granted for said invention anywhere throughout the world, including utility patents, petty patents and design patents, and in any and all divisions, continuations, continuations-in-part and related patents thereof, including the right to file foreign applications directly in the name of ASSIGNEE and to claim priority rights deriving from said application to which said foreign applications are entitled, said invention, applications and all letters patent on said invention to be held and enjoyed by ASSIGNEE and its successors and assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNORS had this assignment not been made.

ASSIGNORS hereby authorize and request the Commissioner of Patents and Trademarks to issue all letters patent on said invention to ASSIGNEE.

ASSIGNORS agree at Assignee's expense to execute all instruments and documents required for the making and prosecution of patents and patent applications, for litigation regarding letters patent, or for the purpose of protecting title to said invention or letters patent therefor.

THE PARTIES hereby grant Boulware & Valoir the power to perfect and record this assignment and to insert any further patent identification that may be necessary or desirable in order to record this assignment.

Exhibit A:

| APPLICATION NUMBER | FILING DATE | COUNTRY | TITLE |
|---------------------------|--------------------|----------------|--------------------------------------|
| 61/185,626 | June 10, 2009 | US | SWELLABLE POLYMER WITH ANIONIC SITES |
| 12/797,402 | June 9, 2010 | US | SWELLABLE POLYMER WITH ANIONIC SITES |

IN WITNESS WHEREOF, I have hereunto set my hand this 4th day of December, 2013.

Ahmad Moradi-Araghi

Declarant: Ahmad MORADI-ARAGHI

IN WITNESS WHEREOF, I have hereunto set my hand this 2 day of Dec., 2013.

Min Cheng

Declarant: Min CHENG

IN WITNESS WHEREOF, I have hereunto set my hand this 2nd day of December, 2013.

Riley B. Needham

Declarant: Riley B. NEEDHAM

IN WITNESS WHEREOF, I have hereunto set my hand this 3rd day of December, 2013.

James H. Hedges

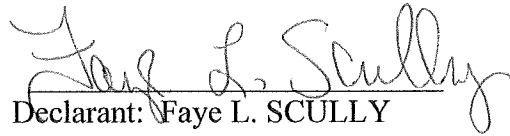
Declarant: James H. HEDGES

IN WITNESS WHEREOF, I have hereunto set my hand this 30 day of Nov, 2013.

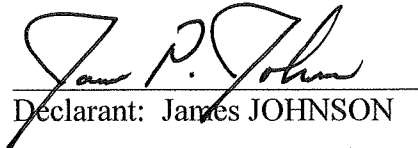
David Zornes

Declarant: David ZORNES

IN WITNESS WHEREOF, I have hereunto set my hand this 2nd day of December, 2013.


Declarant: Faye L. SCULLY

IN WITNESS WHEREOF, I have hereunto set my hand this 2 day of December, 2013.


Declarant: James JOHNSON