

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

| SUBMISSION TYPE: | NEW ASSIGNMENT | | | | | | | | | | |
|--|--|---------------|---------------------------|--|---------------------------|-------|------------|----------------|----------------------|--------------|-------|
| NATURE OF CONVEYANCE: | EXECUTIVE ORDER 9424, CONFIRMATORY LICENSE | | | | | | | | | | |
| CONVEYING PARTY DATA | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>HoneyWell Federal Manufacturing & Technologies, LLC (FM&T)</td> <td>06/26/2013</td> </tr> </tbody> </table> | | Name | Execution Date | HoneyWell Federal Manufacturing & Technologies, LLC (FM&T) | 06/26/2013 | | | | | | |
| Name | Execution Date | | | | | | | | | | |
| HoneyWell Federal Manufacturing & Technologies, LLC (FM&T) | 06/26/2013 | | | | | | | | | | |
| RECEIVING PARTY DATA | | | | | | | | | | | |
| <table border="1"> <tr> <td>Name:</td> <td>U.S. DEPARTMENT OF ENERGY</td> </tr> <tr> <td>Street Address:</td> <td>1000 INDEPENDNCE AVE., SW</td> </tr> <tr> <td>City:</td> <td>WASHINGTON</td> </tr> <tr> <td>State/Country:</td> <td>DISTRICT OF COLUMBIA</td> </tr> <tr> <td>Postal Code:</td> <td>20585</td> </tr> </table> | | Name: | U.S. DEPARTMENT OF ENERGY | Street Address: | 1000 INDEPENDNCE AVE., SW | City: | WASHINGTON | State/Country: | DISTRICT OF COLUMBIA | Postal Code: | 20585 |
| Name: | U.S. DEPARTMENT OF ENERGY | | | | | | | | | | |
| Street Address: | 1000 INDEPENDNCE AVE., SW | | | | | | | | | | |
| City: | WASHINGTON | | | | | | | | | | |
| State/Country: | DISTRICT OF COLUMBIA | | | | | | | | | | |
| Postal Code: | 20585 | | | | | | | | | | |
| 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>13768740</td> </tr> </tbody> </table> | | Property Type | Number | Application Number: | 13768740 | | | | | | |
| Property Type | Number | | | | | | | | | | |
| Application Number: | 13768740 | | | | | | | | | | |
| CORRESPONDENCE DATA | | | | | | | | | | | |
| <p>Fax Number: 2025867127 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> Email: brenda.banks@hq.doe.gov Correspondent Name: Brenda K. Banks Address Line 1: 1000 Independence Ave. Address Line 4: Washington, DISTRICT OF COLUMBIA 20585</p> | | | | | | | | | | | |
| NAME OF SUBMITTER: | Brenda K. Banks | | | | | | | | | | |
| Signature: | /Brenda K. Banks/ | | | | | | | | | | |
| Date: | 07/08/2013 | | | | | | | | | | |
| Total Attachments: 1 source=S-132481 - Confirmatory License#page1.tif | | | | | | | | | | | |

CONFIRMATORY LICENSE

Application for: Apparatus and Methods of Hydrocarbon Extraction
Inventor(s): George W. Bohnert, Galen Verhulst
Serial Number: 13/768,740
Filing Date: 2/15/2013
Contract No.: DE-NA0000622
Contractor: Honeywell Federal Manufacturing & Technologies, LLC (FM&T)

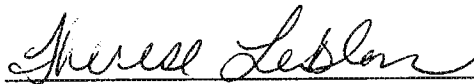
The invention identified above is a "Subject Invention" under the above-numbered contract. A copy of the provisions of the above-numbered contract, certified on July 17, 2012, governing patent rights in the Subject Invention at the time the invention was made, has been submitted to the U.S. Department of Energy (DOE).

The contractor hereby confirms that under the provisions of the above-numbered contract governing patent rights, it has granted to the Government a nonexclusive, nontransferable, irrevocable, paid-up license to practice or have practiced for or on behalf of the United States the Subject Invention throughout the world. This license applies to the invention in the above-identified patent application and any and all divisions or continuations thereof and any resulting patent or reissue patent which may be granted thereon.

It is understood and agreed that this document does not preclude the Government from asserting rights under the provisions of said contract or any other agreement between the Government and the Contractor, or any other rights of the Government with respect to the above-identified invention.

The Contract hereby grants the Government an irrevocable power to inspect and make copies of the above-identified application.

Signed this 26 day of June, 2013



Therese LeBlanc
General Counsel