

10/22/2013



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**PATENTS ONLY**

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)**

Brandon Thomas Least  
Stephen Michael Greci

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

**3. Nature of conveyance/Execution Date(s):**

Execution Date(s) 12/18/12 and 12/20/12

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

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

Name: Halliburton Energy Services, Inc.

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

Street Address: 10200 Bellaire Boulevard

City: Houston

State: TX

Country: US Zip: 77072

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

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

☒ This document is being filed together with a new application.  
A. Patent Application No.(s) B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: Carey C. Jordan

Internal Address: McDermott Will & Emery LLP

Street Address: 500 North Capitol Street N.W.

City: Washington

State: DC Zip: 20001

Phone Number: \_\_\_\_\_

Docket Number: 087638-0328

Email Address: mweipdocket@mwe.com

**6. Total number of applications and patents involved: 1**

**7. Total fee (37 CFR 1.21(h) & 3.41) \$40**

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

**8. Payment Information**

Deposit Account Number 500417  
10/22/2013 KNOU/ENR 00000000 500417 14112125

Authorized User Name Carey C. Jordan

**9. Signature:**

/Carey C. Jordan/  
Signature

October 16, 2013  
Date

Carey C. Jordan  
Name of Person Signing

Total number of pages including cover sheet, attachments, and documents: 4

Documents to be recorded (Including cover sheet) should be faxed to (571) 273-0140, or mailed to:  
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, V.A. 22313-1450

**PATENT**  
**REEL: 031515 FRAME: 0968**

Phoenix Applications Management System

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date: 10-18-2013

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### DECLARATION AND ASSIGNMENT

As the below named inventor, I hereby declare that:

This declaration is directed to:

- ☐ The attached application to be filed as a United States application or PCT international application, or
- ☒ United States application or PCT international application number PCT/US2012/70842 filed on December 20, 2012; and,

entitled "ROTATIONAL MOTION-INDUCING FLOW CONTROL DEVICES AND METHODS OF USE." Regarding that application, I declare the following:

- The above-identified application was made, or authorized to be made, by me.
- I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.
- I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.
- I have reviewed and understand the subject matter of the above-identified application, including the claims.
- I am aware of and acknowledge my duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability under 37 CFR 1.56; including, for continuation-in-part applications, material information that became available between the filing of the prior application and the filing of the continuation-in-part application.

Moreover, Whereas, HALLIBURTON ENERGY SERVICES, INC., a Delaware Corporation, having a place of business at 10200 Bellaire Boulevard, Houston, TX 77072 (hereinafter "Assignee") is desirous of acquiring an interest therein;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, We, by these presents do sell, assign and transfer and convey unto Assignee, its successors and assigns, the full and exclusive right, for the United States of America and its territorial possessions and for any and all foreign countries, in and to the said invention, described in the Patent Application identified above, and any divisional, continuing or reissue application based on the present application preparatory to obtaining Letters Patent

of the United States therefore; said invention, application and any and all Letters Patent issuing there from to be held and enjoyed by Assignee, for its own use and benefit, and for its legal representatives, successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me and had this assignment and sale not been made.

And I do further agree to sign all papers, make all rightful oaths and do all requisite acts for the filing of any disclaimer or for the filing and assignment of any divisional, continuing or reissue application or applications for patent based on the present application, as well as for any other U.S. or foreign application for patent which relates to the said invention.

And I do further agree to communicate to Assignee, its successors, assign or other legal representatives, such facts relating to the invention disclosed in the present application or Letters Patent issuing thereon as may be known to me, and to testify as to such facts in any interference or other litigation.

Executed this 18 day of December, 2012

Brandon Thomas Least

BRANDON THOMAS LEAST

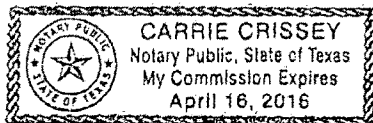
STATE OF Texas )

COUNTY OF Dallas )

Before me personally appeared said BRANDON THOMAS LEAST and acknowledged the foregoing instrument to be a free act and deed this 18 day of December, 2012.

Seal

Carrie Crissey  
(Notary)



of the United States therefore; said invention, application and any and all Letters Patent issuing there from to be held and enjoyed by Assignee, for its own use and benefit, and for its legal representatives, successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me and had this assignment and sale not been made.

And I do further agree to sign all papers, make all rightful oaths and do all requisite acts for the filing of any disclaimer or for the filing and assignment of any divisional, continuing or reissue application or applications for patent based on the present application, as well as for any other U.S. or foreign application for patent which relates to the said invention.

And I do further agree to communicate to Assignee, its successors, assign or other legal representatives, such facts relating to the invention disclosed in the present application or Letters Patent issuing thereon as may be known to me, and to testify as to such facts in any interference or other litigation.

Executed this 20 day of December, 2012

STATE OF Texas )  
COUNTY OF Dallas )

STEPHEN MICHAEL GRECI

Before me personally appeared said STEPHEN MICHAEL GRECI and acknowledged the foregoing instrument to be a free act and deed this 20 day of December, 2012.

Seal

Carrie Crissey  
(Notary)

