

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT3931983

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| JOSEPH E. HESS | 05/19/2014 |
| THOMAS E. BURKY | 05/19/2014 |
| ANDREW JOHN CUTHBERT | 05/19/2014 |
| RECEIVING PARTY DATA | |
| Name: | HALLIBURTON ENERGY SERVICES, INC. |
| Street Address: | 10200 BELLAIRE BLVD |
| City: | HOUSTON |
| State/Country: | TEXAS |
| Postal Code: | 77072 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 15107036 |
| CORRESPONDENCE DATA | |
| Fax Number: | |
| <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i> | |
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| ATTORNEY DOCKET NUMBER: | 1880.970US1 |
| NAME OF SUBMITTER: | JACQUELINE PENNINGTON |
| SIGNATURE: | /Jacqueline Pennington/ |
| DATE SIGNED: | 06/23/2016 |
| Total Attachments: 5 | |
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RECORDATION FORM COVER SHEET
PATENTS ONLY

Atty Ref/Docket No.: 1880.970US1

Patent and Trademark Office

To the Director of the U.S. Patent and Trademark Office: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Joseph E. Hess, Thomas E. Burky, Andrew
John Cuthbert

Additional name(s) of conveying party(ies) attached?

Yes No

3. Nature of conveyance:

Assignment Merger
 Security Agreement Change of Name
 Other

Execution Date: May 19, 2014, May 19, 2014, May 19,
2014

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

Name: Halliburton Energy Services, Inc.

Street Address: 10200 Bellaire Blvd

City: Houston State: TX Zip: 77072
Country: United States of America

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

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

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s)

Serial No. 15/107,036

B. Patent No.(s)

Additional numbers attached? Yes No

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

Name: David R. Cochran

Address:

Schwegman Lundberg & Woessner, P.A.
P.O. Box 2938
Minneapolis, MN 55402--0938

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41): \$ 0.00

Enclosed

Authorized to be charged to deposit account
19-0743

8. Please charge any additional fees or credit any over
payments to our Deposit Account No.: 19-0743

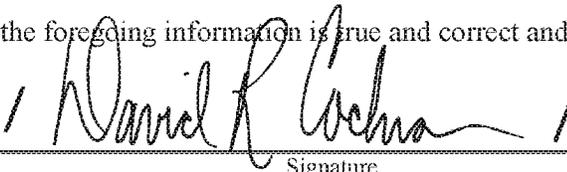
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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy
of the original document.

David R. Cochran/Reg. No. 46,632

Name of Person Signing



Signature

22 June 2016

Date

Total number of pages including cover sheet: 5

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents and Trademarks
Mail Stop Assignment Recordation Services
P.O. Box 1450
Alexandria, VA 22313-1450

PATENT
REEL: 038993 FRAME: 0662

ASSIGNMENT

In consideration of one dollar (\$1.00), and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, we the undersigned, Joseph E. HESS, Thomas E. BURKY, and Andrew J. CUTHBERT, having made an invention in "ESTABLISHING COMMUNICATION DOWNHOLE BETWEEN WELLBORES" while in the employ of HALLIBURTON ENERGY SERVICES, INC., a corporation organized and existing under the laws of the State of Delaware, doing business at 3000 North Sam Houston Parkway East, Houston, Texas 77032, (sometimes hereinafter called "ASSIGNEE"), do hereby ASSIGN, SELL and CONVEY to said ASSIGNEE, its successors and assigns, the entire right, title and interest throughout the world in and to:

1. Said invention in "ESTABLISHING COMMUNICATION DOWNHOLE BETWEEN WELLBORES";

2. International Application on said invention, Attorney File Reference No. 14-085100, Serial No. PCT/US14/38530 filed 17 May 2014, entitled "ESTABLISHING COMMUNICATION DOWNHOLE BETWEEN WELLBORES";

3. All applications for patent or like protection on said invention that have now been or may in the future be made by us or our legal representatives, whether in the United States of America or any other place anywhere in the world;

4. All patents and like protection that have now been or may in the future be granted on said invention to us or our legal representatives, whether in the United States of America or in any other country or place anywhere in the world;

5. All substitutions for and divisions, continuations, continuations-in-part, renewals, reissues, extensions, and the like of said applications and patents and like grants, including without limitations, those obtained or permissible under past, present and future law and statutes;

6. All rights of action on account of past, present and future unauthorized use of said invention for infringement of said patents and like protection;

7. The right to ASSIGNEE to file in its name applications for patents and like protection for said invention in any country or countries foreign to the United States; and

