

# PATENT ASSIGNMENT

Electronic Version v1.1

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|---|-----------------------------------|
| SUBMISSION TYPE:  | NEW ASSIGNMENT                    |
| NATURE OF CONVEYANCE:   | ASSIGNMENT                        |
| <b>CONVEYING PARTY DATA</b>   |                                   |
| Name  | Execution Date                    |
| James E. Brooks   | 06/30/2010                        |
| Dennis Haggerty   | 06/30/2010                        |
| <b>RECEIVING PARTY DATA</b>   |                                   |
| Name:   | Halliburton Energy Services, Inc. |
| Street Address:   | 10200 Bellaire Boulevard          |
| City:   | Houston                           |
| State/Country:  | TEXAS                             |
| Postal Code:  | 77072                             |
| <b>PROPERTY NUMBERS Total: 1</b>  |                                   |
| Property Type   | Number                            |
| Application Number:   | 12775408                          |
| <b>CORRESPONDENCE DATA</b>  |                                   |
| Fax Number:   | (972)418-3877                     |
| <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>  |                                   |
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| Email:  | ruthine.liebman@halliburton.com   |
| Correspondent Name:   | Halliburton Energy Services, Inc. |
| Address Line 1:   | 2601 Beltline Road                |
| Address Line 2:   | 1-B-121                           |
| Address Line 4:   | Carrollton, TEXAS 75006           |
| ATTORNEY DOCKET NUMBER:   | 2010-IP-033121 U1 US              |
| NAME OF SUBMITTER:  | Ruthine Liebman                   |
| <p>Total Attachments: 3</p> <p>source=2010IP033121U1USAssignment#page1.tif</p> <p>source=2010IP033121U1USAssignment#page2.tif</p> |                                   |

CH \$40.00 12775408

**501231961**

**PATENT**  
**REEL: 024681 FRAME: 0866**



ASSIGNMENT

IN CONSIDERATION OF ONE DOLLAR (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, **James E. Brooks and Dennis Haggerty**, having made an invention in a **"Simulating Downhole Flow through a Perforation"** 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 10200 Bellaire Boulevard, Houston, Texas 77072, (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 a **"Simulating Downhole Flow through a Perforation"**;

2. United States of America patent application on said invention, Attorney File No. **2010-IP-033121 U1 US**, U.S. Serial No. **12/775,408**, filed **May 6, 2010** executed by us, entitled **"Simulating Downhole Flow through a Perforation"**;

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

8. All international rights of priority associated with said invention, applications, patents and like protection; and we covenant that we, our heirs, legal representatives, assigns, administrators, and executors will at the expense of ASSIGNEE, its successors and assigns, execute all papers and perform such other acts as may be reasonably necessary to give ASSIGNEE, its successors and assigns, the full benefit of this Assignment.

EXECUTED at Johnson County, Texas, on the 30th day of June, 2010.

James E. Brooks  
James E. Brooks

STATE OF Texas §  
COUNTY OF Johnson §

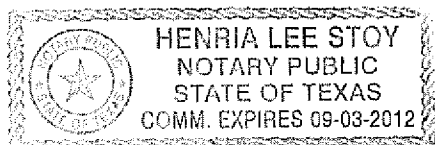
BEFORE ME, the undersigned authority, on this day personally appeared **James E. Brooks** known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this the 30th day of June, 2010.

Henria Lee Stoy  
Notary Public

[SEAL]

My Commission Expires: 9/3/2012



EXECUTED at Johnson County, Texas, on the 30th day of June, 2010.

Dennis Haggerty  
Dennis Haggerty

STATE OF Texas §  
COUNTY OF Johnson §

BEFORE ME, the undersigned authority, on this day personally appeared **Dennis Haggerty** known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this the 30th day of June, 2010.

Henria Lee Stoy  
Notary Public

[SEAL]

My Commission Expires: 9/3/2012

