

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:

NEW ASSIGNMENT

NATURE OF CONVEYANCE:

ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Haoyue Zhang	07/03/2007
Michael Fripp	06/28/2007
Doug Beck	07/16/2007

RECEIVING PARTY DATA

Name:	Halliburton Energy Services, Inc.
Street Address:	10200 Bellaire Boulevard
City:	Houston
State/Country:	TEXAS
Postal Code:	77072

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	11729746

CORRESPONDENCE DATA

Fax Number: (972)418-3877
Correspondence will be sent via US Mail when the fax attempt is unsuccessful.
Phone: 972-418-3892
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:

2005-IP-017924 U1

NAME OF SUBMITTER:

Ruthine Liebman

Total Attachments: 4

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PATENT

REEL: 019620 FRAME: 0089

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CH \$40.00 11729746

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ASSIGNMENT

IN CONSIDERATION OF TEN DOLLARS (\$10.00) cash in hand paid to me by HALLIBURTON ENERGY SERVICES, INC., and other valuable consideration, the receipt and sufficiency of which are hereby acknowledged, **Haoyue Zhang, Michael Fripp and Doug Beck**, having made an invention in a **"Downhole Seal Assembly Having Embedded Sensors and Method for Use of Same"** 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 **"Downhole Seal Assembly Having Embedded Sensors and Method for Use of Same"**;

2. United States of America patent application on said invention, Attorney File No. **2005-IP-017924 U1 USA**, U.S. Serial No. **11/729,746**, filed **March 29, 2007** executed by us, entitled **"Downhole Seal Assembly Having Embedded Sensors and Method for Use of Same"**;

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.

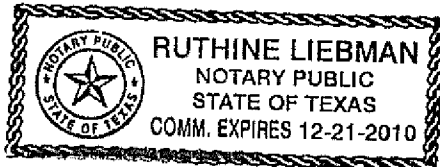
EXECUTED at Dallas County, Texas, on the 3rd day of July, 2007.

use by
Haoyue Zhang

STATE OF TEXAS §
 §
COUNTY OF DALLAS §

BEFORE ME, the undersigned authority, on this day personally appeared **Haoyue Zhang** 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 3rd day of July, 2007.



Ruthine Liebman
Notary Public

[SEAL]

My Commission Expires:

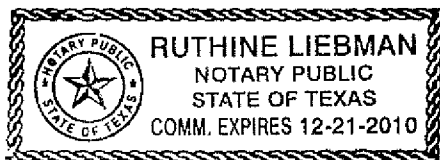
EXECUTED at Dallas County, Texas, on the 28 day of June, 2007.


Michael Fripp

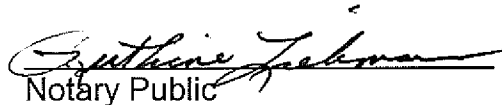
STATE OF TEXAS §
 §
COUNTY OF DALLAS §

BEFORE ME, the undersigned authority, on this day personally appeared **Michael Fripp** 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 28th day of June, 2007.

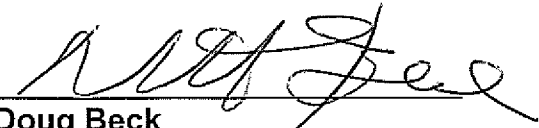


[SEAL]


Notary Public

My Commission Expires:

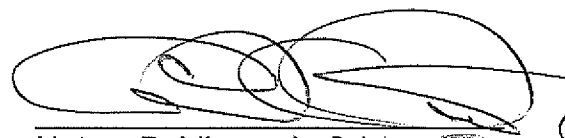
EXECUTED at CALGARY, ALBERTA CANADA on
the 16 day of JULY, 2007.


Doug Beck

STATE OF ALBERTA §
COUNTY OF CANADA §

BEFORE ME, the undersigned authority, on this day personally appeared **Doug Beck** 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 16th day
of JULY, 2007.


Notary Public IN AND FOR CALVIN D. BRIGHTON
THE PROVINCE OF ALBERTA

[SEAL]

My Commission Expires: N/A
APPOINTED AT PLEASURE OF CROWN