

PATENT ASSIGNMENT

Electronic Version v1.1
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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Lee M. SMITH	07/15/2010
Alan B. WEBB	07/20/2010
Vijay KARODE	07/30/2010
Karl M. TUNSTALL	07/09/2010

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:	12833393

CORRESPONDENCE DATA

Fax Number: (972)516-0608
Correspondence will be sent via US Mail when the fax attempt is unsuccessful.
 Phone: 972-516-0030
 Email: mail@smithipservices.com
 Correspondent Name: SMITH IP SERVICES, P.C.
 Address Line 1: P.O. Box 997
 Address Line 4: Rockwall, TEXAS 75087

ATTORNEY DOCKET NUMBER:	2009-IP-026326 U1 US
NAME OF SUBMITTER:	Sally Ann Smith

Total Attachments: 8
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OP \$40.00 12833393

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**PATENT
 REEL: 024837 FRAME: 0147**

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source=AssignmentTUNSTALL#page1.tif
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ASSIGNMENT

In consideration of one dollar (\$1.00), and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, I the undersigned, **Lee M. SMITH**, having made an invention in a **“DRILL STRING/ANNULUS SEALING WITH SWELLABLE MATERIALS”** 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 **“DRILL STRING/ANNULUS SEALING WITH SWELLABLE MATERIALS”**;

2. United States of America patent application on said invention, Attorney File No. **2009-IP-026326 U1 US**, U.S. Serial No. **12/833,393** filed **July 9, 2010**, executed by me, entitled **“DRILL STRING/ANNULUS SEALING WITH SWELLABLE MATERIALS”**;

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 Anchorage County, Alaska, on the 15th day of July, 2010.

Lee M. Smith
Lee M. SMITH

STATE OF Alaska §
COUNTY OF Anchorage §

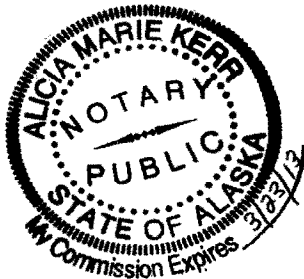
BEFORE ME, the undersigned authority, on this day personally appeared **Lee M. SMITH** known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this the 15th day of July, 2010.

Alicia Marie Kerr
Notary Public

[SEAL]

My Commission Expires: 3/23/13



ASSIGNMENT

In consideration of one dollar (\$1.00), and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, I the undersigned, **Alan B. WEBB**, having made an invention in a "**DRILL STRING/ANNULUS SEALING WITH SWELLABLE MATERIALS**" 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 "**DRILL STRING/ANNULUS SEALING WITH SWELLABLE MATERIALS**";

2. United States of America patent application on said invention, Attorney File No. **2009-IP-026326 U1 US**, U.S. Serial No. **12/833,393** filed **July 9, 2010**, executed by me, entitled "**DRILL STRING/ANNULUS SEALING WITH SWELLABLE MATERIALS**";

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;

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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 TARRANT County, Texas, on the 20th day of July, 2010.

Alan B Webb
Alan B. WEBB

STATE OF _____ §
COUNTY OF _____ §

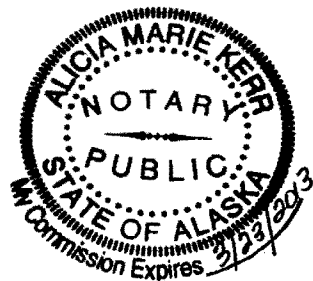
BEFORE ME, the undersigned authority, on this day personally appeared **Alan B. WEBB** known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this the 20th day of July, 2010.

Alicia Marie Kerr
Notary Public

[SEAL]

My Commission Expires: 3/23/2013



ASSIGNMENT

In consideration of one dollar (\$1.00), and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, I the undersigned, **Vijay KARODE**, having made an invention in a “**DRILL STRING/ANNULUS SEALING WITH SWELLABLE MATERIALS**” 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 “**DRILL STRING/ANNULUS SEALING WITH SWELLABLE MATERIALS**”;

2. United States of America patent application on said invention, Attorney File No. **2009-IP-026326 U1 US**, U.S. Serial No. **12/833,393** filed **July 9, 2010**, executed by me, entitled “**DRILL STRING/ANNULUS SEALING WITH SWELLABLE MATERIALS**”;

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;

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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 Williams County, ^{North Dakota} ~~Texas~~, on the 30th day of July, 2010.

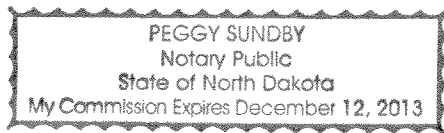


Vijay KARODE


STATE OF North Dakota §
 §
COUNTY OF Williams §

BEFORE ME, the undersigned authority, on this day personally appeared **Vijay KARODE** 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 July, 2010.



[SEAL]



Notary Public

My Commission Expires:

ASSIGNMENT

In consideration of one dollar (\$1.00), and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, I the undersigned, **Karl M. TUNSTALL**, having made an invention in a **“DRILL STRING/ANNULUS SEALING WITH SWELLABLE MATERIALS”** 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:

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2. United States of America patent application on said invention, Attorney File No. **2009-IP-026326 U1 US**, U.S. Serial No. **12/833,393** filed **July 9, 2010**, executed by me, entitled **“DRILL STRING/ANNULUS SEALING WITH SWELLABLE MATERIALS”**;

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;

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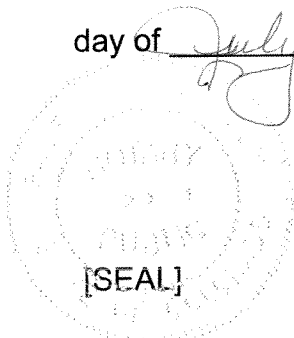
EXECUTED at Denver County, Colorado, on the 9th
day of July, 2010.


Karl M. TUNSTALL

STATE OF Colorado §
COUNTY OF Denver §
City of

BEFORE ME, the undersigned authority, on this day personally appeared **Karl M. TUNSTALL** 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 9th
day of July, 2010.




Notary Public

My Commission Expires:

May 1, 2014