

08-22-2008

U.S. DEPARTMENT OF COMMERCE
United States Patent and Trademark Office



To the Director of the U.S. Patent and

103521092

Documents or the new address(es) below.

1. Name of conveying party(ies)

Leonard Case (8/5/08); Michael Segura (7/30/08); Harold Walters (7/30/08); Jason Bryant (7/30/08); Herbert Horinek (8/5/08); Jonn Thompson (7/14/08); Von Parkey (7/24/08); Shaun Burns (6/27/08)

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

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

Execution Date(s) See above

- ☒ 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: Robert A. Kent

Internal Address:

Halliburton Energy Services, Inc.

Street Address: 10200 Bellaire Blvd.

City: Houston

State: TX

Country: USA 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)

12/151,504 filed 5/7/2008

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: Robert A. Kent

Internal Address: Halliburton Energy Services, Inc.

Street Address: 2600 S. 2nd Street

City: Duncan

State: OK Zip: 73536-0440

Phone Number: 580-251-3125

Fax Number: 580-251-3917

Email Address: Tammy.Knight@Halliburton.com

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00

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

8. Payment Information

a. Credit Card Last 4 Numbers _____
Expiration Date _____

b. Deposit Account Number 08-0300

Authorized User Name Halliburton

9. Signature:

Signature

Robert A. Kent

Name of Person Signing

08/21/2008 DATE 8-13-2008

Date

01 FC:8021

40.00 DA

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

10

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

ASSIGNMENT

Whereas, I/We, **Leonard Case, Michael Segura, Harold Walters, Jason Bryant and Herbert Horinek**, all of Stephens County, Duncan, Oklahoma, **Jonn Thompson** of Smith County, Flint, Texas, **Von Parkey** of Oklahoma County, Oklahoma City, Oklahoma, **Shaun Burns** of Mesa County, Grand Junction, Colorado and **Tommy Slabaugh** (Personal Representative for **Billy Slabaugh**) of Wichita County, Wichita Falls, Texas, have invented "**Methods of Pumping Fluids having Different Concentrations of Particulate at Different Average Bulk Fluid Velocities to Reduce Pump Wear and Maintenance in the Forming and Delivering of a Treatment Fluid into a Wellbore**" for which I have made application for Letters Patent of the United States; and

Whereas, HALLIBURTON ENERGY SERVICES, INC., a Delaware Corporation, having a place of business at 10200 Bellaire Boulevard, Houston, Texas 77072 is desirous of acquiring an interest therein;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I/We, by these presents do sell, assign and transfer and convey unto HALLIBURTON ENERGY SERVICES, INC., 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 serial number **12/151,504** filed on **5/7/2008**, and any divisional, continuing or reissue application based on the present application preparatory to obtaining Letters Patent of the United States therefor; said invention, application and any and all Letters Patent issuing therefor to be held and enjoyed by HALLIBURTON ENERGY SERVICES, INC., for its own use and behoof, 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 HALLIBURTON ENERGY SERVICES, INC., 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 5TH day of August, 2008, at Duncan, Stephens County,
Oklahoma, U.S.A.

Leonard Case
Signature

STATE OF OKLAHOMA)
) ss
COUNTY OF STEPHENS)

Before me personally appeared said **Leonard Case** and acknowledged the foregoing instrument
to be his free act and deed this 5th day of August, 2008.

Seal



Tammy Knight
(Notary)

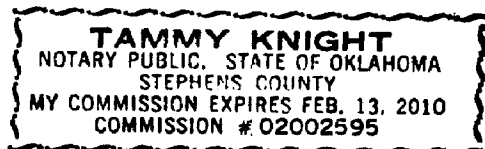
Executed this 30 day of July, 2008, at Duncan, Stephens County,
Oklahoma, U.S.A.

Michael Segura
Signature

STATE OF OKLAHOMA)
) ss
COUNTY OF STEPHENS)

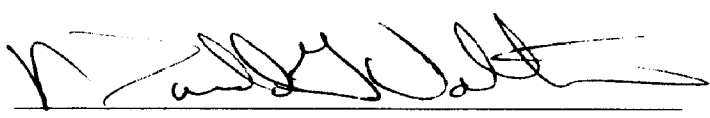
Before me personally appeared said **Michael Segura** and acknowledged the foregoing instrument
to be his free act and deed this 30th day of July, 2008.

Seal



Tammy Knight
(Notary)

Executed this 30th day of July, 2008, at Duncan, Stephens County,
Oklahoma, U.S.A.

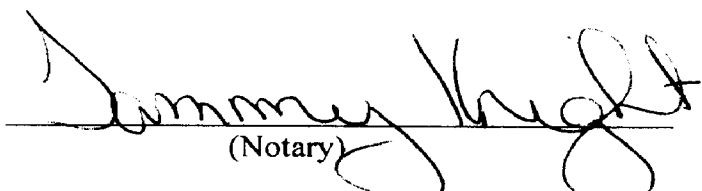

Signature

STATE OF OKLAHOMA)
) ss
COUNTY OF STEPHENS)


Before me personally appeared said **Harold Walters** and acknowledged the foregoing instrument
to be his free act and deed this 30th day of July, 2008.

TAMMY KNIGHT
NOTARY PUBLIC, STATE OF OKLAHOMA
STEPHENS COUNTY
MY COMMISSION EXPIRES FEB. 13, 2010
COMMISSION # 02002595

Seal


(Notary)

Executed this 30th day of July, 2008, at Duncan, Stephens County,
Oklahoma, U.S.A.

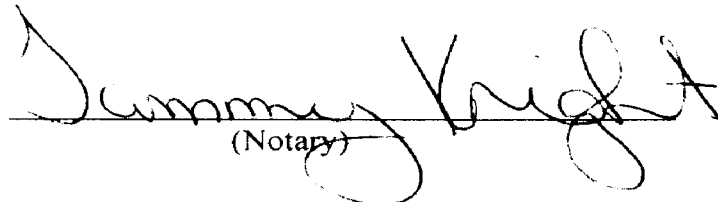

Signature

STATE OF OKLAHOMA)
) ss
COUNTY OF STEPHENS)

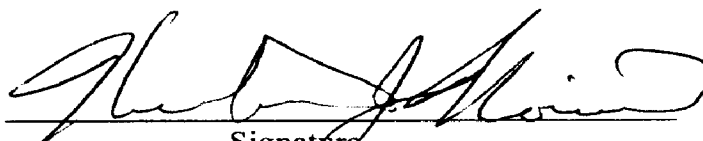
Before me personally appeared said **Jason Bryant** and acknowledged the foregoing instrument to
be his free act and deed this 30th day of July, 2008.

TAMMY KNIGHT
NOTARY PUBLIC, STATE OF OKLAHOMA
STEPHENS COUNTY
MY COMMISSION EXPIRES FEB. 13, 2010
COMMISSION # 02002595

Seal


(Notary)

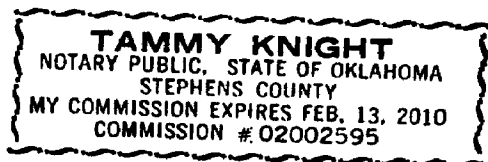
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Oklahoma, U.S.A.

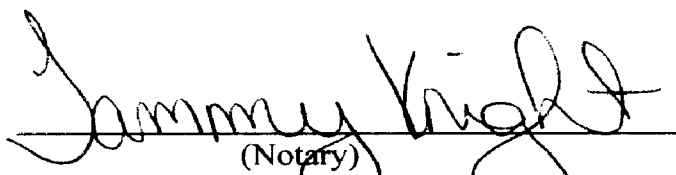

Signature

STATE OF OKLAHOMA)
) ss
COUNTY OF STEPHENS)

Before me personally appeared said **Herbert Horinek** and acknowledged the foregoing
instrument to be his free act and deed this 5th day of August, 2008.

Seal




(Notary)

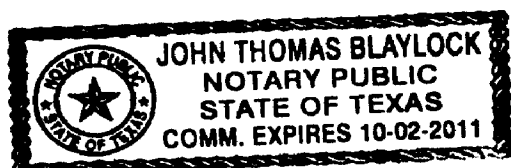
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County, Texas, U.S.A.

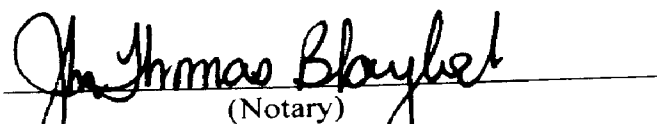

Signature

STATE OF TEXAS)
) ss
COUNTY OF Greeley)

Before me personally appeared said **Jonn Thompson** and acknowledged the foregoing
instrument to be his free act and deed this 14 day of July, 2008.

Seal




(Notary)

Executed this 24th day of July, 2008, at Oklahoma City, Oklahoma
County, Oklahoma, U.S.A.

Von Parkey
Signature

STATE OF OKLAHOMA)
COUNTY OF Oklahoma) ss

Before me personally appeared said **Von Parkey** and acknowledged the foregoing instrument to
be his free act and deed this 24th day of July, 2008.

Seal



Susan W. Dyer
(Notary)

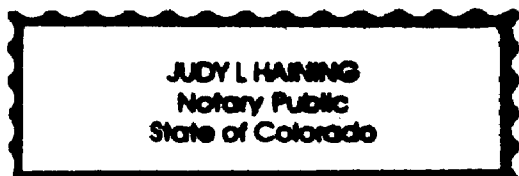
Executed this 27 day of June, 2008, at Grand Junction Mesa
County, Colorado, U.S.A.

Shaun Burns
Signature

STATE OF COLORADO)
COUNTY OF Mesa) ss

Before me personally appeared said **Shaun Burns** and acknowledged the foregoing instrument to
be his free act and deed this 27th day of June, 2008.

Seal



Judy L. Haining
(Notary)

For: ☐ U.S. and/or ☐ Foreign Rights
For: ☐ U.S. Application or
☐ U.S. Provisional Application
For: ☐ U.S. Patent
For: ☐ PCT Application
By: ☐ Administrator(trix) ☐ Executor(trix)
☐ Legal Representative(s)

**ASSIGNMENT OF INVENTION
BY ADMINISTRATOR(TRIX), EXECUTOR(TRIX)
OR LEGAL REPRESENTATIVE(S)**

In consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration,

ASSIGNOR:

By administrator(trix), executor(trix)
or legal representative of inventor
or person who owns the invention

Tommy Slabaugh
(type or print name(s) of administrator(trix),
executor(trix) or legal representative(s))

Billy Slabaugh

Inventor or person on whose behalf above person(s) are signing

2020 Santa Fe Street, Apt. 53

Address(es) of person(s) signing

Wichita Falls, Texas 76309

United States

Nationality(ies) of person(s) signing

*(If assignment is on behalf of person to whom invention was previously assigned
and this was recorded in PTO, add the following)*

Recorded on _____ Reel _____
Frame _____

hereby sells, assigns and transfers to

ASSIGNEE:

Halliburton Energy Services, Inc.
(type or print name of Assignee(s))

2600 S. 2nd Street

Address P.O. Box 1431

Duncan, OK 73536-0440

United States

Nationality

and the successors, assigns and legal representatives of the ASSIGNEE

(Assignment of Invention—Administrator(trix), Executor(trix) or Legal Representative(s) [16-3.1]—page 1 of 3)

(complete one of the following)

☒ the entire right, title and interest

☐ an undivided _____ percent (_____%) interest

for the United States and its territorial possessions

(check the following box, if foreign rights are also to be assigned)

☒ and in all foreign countries, including all rights to claim priority,

in and to any and all improvements which are disclosed in the invention entitled:

Methods of Pumping Fluid having Different Concentrations of Particulate at
Different Average Bulk Fluid Velocities to Reduce Pump Wear and...

Name of inventor(s) _____

Leonard Case, Michael Segura, Harold Walters, Jason Bryant, Herbert Horinek,
Shaun Burns, Jonn Thompson, Von Parkey, and Billy Slabaugh

(check and complete (a), (b), (c), (d), (e), (f), or (g))

and which is found in (37 C.F.R. § 3.21)

(a) ☐ U.S. patent application executed on even date herewith

(b) ☐ U.S. patent application executed on _____

(c) ☐ U.S. provisional application naming the above inventor(s) for the above-entitled invention

☐ Express mail label no.: _____

Mailed: _____

☐ To comply with 37 C.F.R. § 3.21 for recordal of this assignment, I, an ASSIGNOR signing below, hereby authorize and request my attorney to insert below the filing date and application number when they become known.

(d) ☒ U.S. application no. 12 / 151,504 filed on 5/7/2008

(e) ☐ International application no. PCT/_____/_____ filed on _____

(f) ☐ U.S. patent no. _____ issued _____

☐ A change of address to which correspondence is to be sent regarding patent maintenance fees is being sent separately.

(also check (g), if foreign application(s) is(are) also being assigned)

(g) ☒ and any legal equivalent thereof in a foreign country, including the right to claim priority

and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute thereof, and as to letters patent any reissue or re-examination thereof.

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

(Assignment of Invention—Administrator(trix), Executor(trix) or Legal Representative(s) [16-3.1]—page 2 of 3)

PATENT

REEL: 021431 FRAME: 0633

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

PROOF OF AUTHORITY to act on behalf of the deceased/incapacitated inventor is submitted herewith.

IN WITNESS WHEREOF, I/We have hereunto set hand and seal this 18th day
of June 2008
Date of signing

WARNING: The date of signing must be the same as the date of execution of the application, if item (a) was checked above.

Date:

Tommy Slabaugh

(Signature of administrator(trib), executor(trib), or
legal representative(s))

Date: 6-18-08

Tommy Slabaugh

Date:

NOTE: No witnessing, notarization or legalization is necessary. If the assignment is notarized or legalized, then it will only be prima facie evidence of execution. 35 U.S.C. § 261. Use next page if notarization is desired.

☒ Notarization or Legalization Page Added.

(Assignment of Invention—Administrator(trib), Executor(trib) or Legal Representative(s) [16-2.1]—page 3 of 3)

NOTARIZATION OR LEGALIZATION ACCOMPANYING ASSIGNMENT

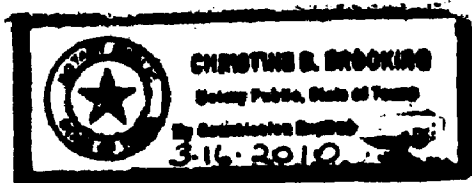
NOTE: Executing this page is not required for assignment, and is only prima facie evidence of execution. 35 USC 261.

Details of Country United States
and place of signing of assignment Wichita Falls, Texas

Before me this 18th day of June 162008, personally appeared the above named individual(s), to me known to be the person(s) who ☒ is ☐ are described in, and who executed the foregoing assignment instrument and acknowledged to me that

<input checked="" type="checkbox"/> he		<input checked="" type="checkbox"/> his
<input type="checkbox"/> she	executed the same of	<input type="checkbox"/> her
<input type="checkbox"/> they		<input type="checkbox"/> their

own free will for the purpose therein expressed.



Christine S. Brookins
Notary Public or Consular Officer of the
United States of America