

08-31-2005

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REGISTRATION FC
PATENT



103072171

To the Director of the U.S. Patent and Trademark Office: Please refer to the attached documents or the new address(es) below.

1. Name of conveying party(ies)

Michael W. Smith (08/22/05)
John M. Terracina (08/24/05)

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: Halliburton Energy Services, Inc.

Internal Address: _____

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)

11/159,910 filed 6/23/2005

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

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:

Robert A. Kent
Signature

8-24-2005
Date

Robert A. Kent

Name of Person Signing

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

3

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

08/31/2005 ECOOPER 00000070 080300 11159910

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PATENT
REEL: 016922 FRAME: 0470

ASSIGNMENT

Whereas, I/We, **Michael W. Smith** of Dallas County, Addison, Texas and **John M. Terracina** of Stephens County, Duncan, Oklahoma, have invented “**Methods for Effecting Controlled Break in PH Dependent Foamed Fracturing Fluid**” 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 **11/159,910** filed on **06/23/2005**, 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.

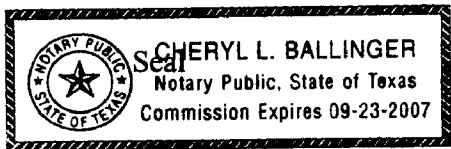
Executed this 22nd day of August, 2005, at Carrollton, Dallas County, Texas, U.S.A.

Michael W. Smith

Signature

STATE OF TEXAS)
) ss
COUNTY OF DALLAS)

Before me personally appeared said **Michael W. Smith** and acknowledged the foregoing instrument to be his free act and deed this 22nd day of August, 2005.



Cheryl L. Ballinger

(Notary)

Executed this 24 day of August, 2005, at Duncan, Stephens County, Oklahoma, U.S.A.

John M. Terracina

Signature

STATE OF OKLAHOMA)
) ss
COUNTY OF STEPHENS)

Before me personally appeared said **John M. Terracina** and acknowledged the foregoing instrument to be his free act and deed this 24th day of August, 2005.

Seal
2-13-2006

Sammy Knight

(Notary)
#02002595