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OMB No. 0651-0027 (exp. 6/30/2008)

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



103083146

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

1. Name of conveying party(ies)

Elaine Harrower
Arthur Youngson
Colin Temple

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

2. Name and address of receiving party(ies)

Name: Halliburton Energy Services, Inc.

Internal Address: _____

Street Address: 10200 Bellaire Boulevard

City: Houston

State: TX

Country: U.S. Zip: 77072

Additional name(s) & address(es) attached? Yes No

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

Execution Date(s) August 17, 2005

- Assignment Merger
- Security Agreement Change of Name
- Joint Research Agreement
- Government Interest Assignment
- Executive Order 9424, Confirmatory License
- Other _____

4. Application or patent number(s):

This document is being filed together with a new application.

A. Patent Application No.(s)

11/183,113

B. Patent No.(s)

Additional numbers attached? Yes No

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

Name: Craig W. Roddy

Internal Address: Halliburton Energy Services

Street Address: 2600 South Second Street

City: Duncan

State: OK Zip: 73536-0440

Phone Number: 580-251-3012

Fax Number: 580-251-3917

Email Address: craig.rodny@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:

Craig W. Roddy
Signature

9-7-2005
Date

Craig W. Roddy

Name of Person Signing

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

4

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

09/16/2005 ECDUPER 00000244 080300 / 11183113

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PATENT
REEL: 016977 FRAME: 0067

ASSIGNMENT

Whereas, I/We, Elaine Harrower, of Balmedie, Aberdeenshire, Scotland; Arthur Youngson, of Cults, Aberdeen, Scotland, and Colin Temple, of Aberdeen Scotland, have invented TREATMENT FLUIDS WITH IMPROVED SHALE INHIBITION AND METHODS OF USE IN SUBTERRANEAN OPERATIONS 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 11/183,113 filed on July 15, 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 17th day of August, 2005, at Aberdeen, Scotland.

Elaine Harrower

Elaine Harrower

Before me personally appeared said Elaine Harrower and acknowledged the foregoing instrument to be his free act and deed this 17th day of AUGUST, 2005.

Seal

fnr

(Notary) PUBLIC
1A W. RONALD M'LEOD
7 GOLDEN SQUARE

My Commission Expires:

ABERDEEN

N/A

Executed this 17 day of AUGUST, 2005, at Aberdeen, Scotland.

Arthur Youngson

Arthur Youngson

Before me personally appeared said Arthur Youngson and acknowledged the foregoing instrument to be his free act and deed this 17th day of AUGUST, 2005.

Seal

fnr

(Notary) PUBLIC

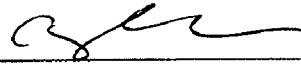
1A W. RONALD M'LEOD

7 GOLDEN SQUARE

My Commission Expires: N/A

ABERDEEN

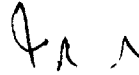
Executed this 17th day of August, 2005, at Aberdeen, Scotland.



Colin Temple

Before me personally appeared said Colin Temple and acknowledged the foregoing instrument to be his free act and deed this 17th day of August, 2005.

Seal



(Notary) Public

My Commission Expires: N/A

IAN RONALD McLEOD
7 GOLDEN SQUARE
ABERDEEN