

RECORDATION FORM COVER SHEET  
PATENTS ONLY

Atty Ref/Docket No.: 1880.143US1

Patent and Trademark Office

To the Director of the U.S. Patent and Trademark Office: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Ronald L. Spross, Kenneth J. Bryars and Andrew J. Downing

Additional name(s) of conveying party(ies) attached?

[ ] Yes [X] No

3. Nature of conveyance:

[X] Assignment [ ] Merger  
[ ] Security Agreement [ ] Change of Name  
[ ] Other

Execution Date: December 18, 2009, January 13, 2010,  
January 12, 2010

2. Name and address of receiving party(ies):

Name: Halliburton Energy Services, Inc.Street Address: 10200 Bellaire BlvdCity: Houston State: TX Zip: 77072Additional name(s) & address(es) attached? [ ] Yes  
[X] No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s)

B. Patent No.(s)

Serial No. 12/445,393, filed April 13, 2009

Additional numbers attached? [ ] Yes [X] No

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

Name: Mark V. Muller

Address:

Schwegman, Lundberg & Woessner, P.A.  
P.O. Box 2938  
Minneapolis, MN 55402-0938

6. Total number of applications and patents involved: 17. Total fee (37 CFR 3.41): \$ 40.00

[ ] Enclosed

[X] Authorized to be charged to deposit account  
19-0743

8. Please charge any additional fees or credit any over payments to our Deposit Account No.: 19-0743

**DO NOT USE THIS SPACE**

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Mark V. Muller/Reg. No. 37,509

Name of Person Signing

Mark V. Muller

Signature

MARCH 10, 2010

Date

Total number of pages including cover sheet: 6

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents and Trademarks  
Mail Stop Assignment Recordation Services  
P.O. Box 1450  
Alexandria, VA 22313-1450

PATENT

REEL: 024090 FRAME: 0726

700431934

CH \$40.00 190743 12445393

Attorney Docket No. 1880.143US1  
Client Ref. No. 2005-IP-019425 US /E-billing # 2008-IPRO-009907

### ASSIGNMENT

WHEREAS, We, Ronald L. Spross, residing at 19731 Oak Briar Drive, Humble, TX 77346, and Kenneth J. Bryars, residing at 2135 Oak Shores Drive, Kingwood, TX 77339, and Andrew J. Downing, residing at 11807 Lakegrove Court, Tomball, TX 77377, made certain new and useful inventions and improvements which are described in an application for U.S. Letters Patent on April 13, 2009, which application was assigned U.S. patent application serial number 12/445,393, and is entitled COMMUNICATION VIA FLUID PRESSURE MODULATION:

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and adequacy of which are hereby acknowledged, the undersigned do hereby:

SELL, ASSIGN AND TRANSFER to Halliburton Energy Services, Inc. (the "Assignee"), a corporation of the State of Delaware, having a place of business at 10200 Bellaire Blvd, Houston, TX 77072, the entire right, title and interest for the United States and all foreign countries in and to: any and all inventions and improvements which are disclosed in the identified application for U.S. Letters Patent, and which may be further identified below; such application and all divisional, continuing, substitute, renewal, reissue and all other applications for patent which have been or shall be filed in the United States (including all provisional and non-provisional applications), and in all foreign countries on any of such inventions and/or improvements (including any applications for utility models); all original and reissued patents which have been or shall be issued in the United States and all foreign countries on such inventions and/or improvements; and specifically including the right to file foreign applications under the provisions of any convention or treaty and to claim priority based on the identified application;

AUTHORIZE AND REQUEST that any attorney associated with U.S. PTO Customer No. 21186 may (directly or through his/her designee) delete, insert, or alter any information identifying this application, or any related application, below, after execution of this Assignment;

#### Additional Application Information

*No Provisional claim for priority is being made at this time.*

*No U.S. Non-Provisional claim for priority is being made at this time.*

*International Application Serial No. PCT/US2007/009061, filed on April 12, 2007.*

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such improvements to the Assignee;

## ASSIGNMENT

Client: Ref. No. 2005-IP-019425 US /E-billing # 2008-IPRO-009907

Assignors: Ronald L. Spross et al.

Title: COMMUNICATION VIA FLUID PRESSURE MODULATION

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Docket No: 1880.143US1

Serial Number: 12/445,393

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and/or property herein conveyed has been or will be made to others by the undersigned, and that the full right to convey the same as herein expressed is possessed by the undersigned;

COVENANT, that when requested and without compensation, but at the expense of the Assignee, in order to carry out in good faith the intent and purpose of this Assignment, the undersigned will (1) execute all provisional, non-provisional, divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all such improvements; (2) execute all rightful oaths, declarations, assignments, powers of attorney and other papers; (3) communicate to the Assignee all facts known to the undersigned relating to such improvements and the history thereof; (4) cooperate with the Assignee in any interference, reexamination, reissue, opposition, dispute, or litigation involving any of the applications or patents for such improvements; and (5) take such further actions as the Assignee shall reasonably consider necessary or desirable for vesting title to such improvements in the Assignee, or for securing, maintaining and enforcing proper patent protection for such improvements;

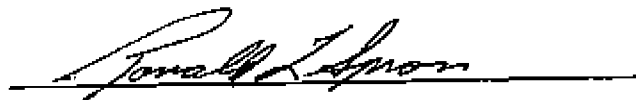
THIS AGREEMENT IS TO BE BINDING on the heirs, assigns, representatives and successors of the undersigned, and is to extend to the benefit of the successors, assigns and nominees of the Assignee.

AGREED as of the date of my signature below:

ASSIGNMENT  
Client Ref. No. 2005-IP-019425 US /E-billing # 2008-IPRO-009907  
Assignors: Ronald L. Spross et al.  
Title: COMMUNICATION VIA FLUID PRESSURE MODULATION  
Page 3 of 5

Docket No: 1880,143US1

Serial Number: 12/445,393

IN TESTIMONY WHEREOF, I have hereunto set my hand this 18 day of18 DECEMBER, 2009.

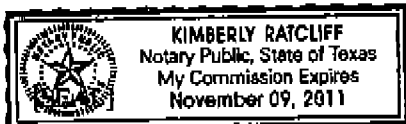
Ronald L. Spross

STATE OF Texas )

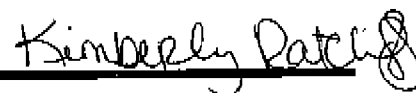
)ss

COUNTY OF Harris )

On this 18 day of December, 2009 before me personally appeared Ronald L. Spross, to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.



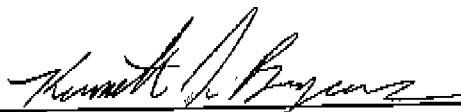
Notary Public



ASSIGNMENT  
Client Ref. No. 2005-IP-019425 US /E-billing # 2008-IPRO-009907  
Assignors: Ronald L. Spross et al.  
Title: COMMUNICATION VIA FLUID PRESSURE MODULATION  
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Docket No: 1880.143US1

Serial Number: 12/445,393

IN TESTIMONY WHEREOF, I have hereunto set my hand this 13 day ofJANUARY, 2010.

Kenneth J. Bryars

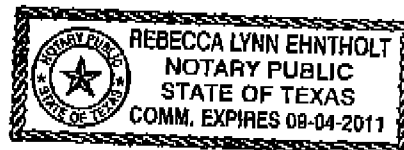
STATE OF TEXAS

)ss

COUNTY OF HENRY

On this 13 day of JANUARY, 2010, before me personally appeared Kenneth J. Bryars, to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

[SEAL]



Notary Public

## ASSIGNMENT

Client Ref. No. 2005-IP-019425 US/E-billing # 2008-IPRO-009907

Assignors: Ronald L. Spross et al.

Title: COMMUNICATION VIA FLUID PRESSURE MODULATION

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Docket No: 1880.143US1

Serial Number: 12/445,393

IN TESTIMONY WHEREOF, I have hereunto set my hand this 12 day ofJANUARY, 2010.

Andrew J. Downing

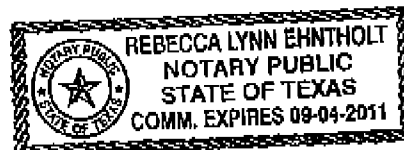
STATE OF TEXAS

)ss

COUNTY OF HARRIS

On this 12 day of JANUARY, 2010 before me personally appeared Andrew J. Downing, to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

[SEAL]



Notary Public

**SCHWEGMAN ■ LUNDBERG ■ WOESSNER**  
PATENT, TRADEMARK & COPYRIGHT ATTORNEYS

P.O. Box 2938

Minneapolis, MN 55402

Telephone (612) 373-6900

Facsimile (612) 339-3061

Date: March 16, 2010Time: 9:28 A.M.  
(Minneapolis, Minn.)

TO: Commissioner for Patents  
Attn: Assignment Recordation Services  
Patent Examining Corps  
Facsimile Center  
P.O. Box 1450  
Alexandria, VA 22313-1450  
**FAX NUMBER 571-273-0140**

FROM: Mark V. Muller

OUR REF: 1880.143US1

## Documents Transmitted:

**Assignment (5 pages), Assignment Recordation Form Cover Sheet (1 page), authorization to charge Deposit Account No. 19-0743 in the amount of \$40.00 to cover the Assignment Recording Fee.**

Total pages of this transmission, including cover letter: (7 pgs)

If you do NOT receive all of the pages described above, please telephone us at 612-373-6900 or fax us at 612-339-3061.

In re. Patent Application of: Ronald Spross et al.

Examiner:

Serial No.: 12/445,393

Group Art Unit:

Filed: April 13, 2009

Docket No.: 1880.143US1

Title: COMMUNICATION VIA FLUID PRESSURE MODULATION

Please charge any additional fees or credit overpayment to Deposit Account No. 19-0743.

By: Mark V. Muller  
Name: Mark V. Muller  
Reg. No. 37,509

I hereby certify that this paper is being transmitted by facsimile to the U.S. Patent and Trademark Office on the date shown below.

Kevin Auslad  
Kevin Auslad

3/16/10  
Date