

06-03-2002

HEET



5.24.02

To the Honorable Commissioner of Patents

102109532

and original documents or copy thereof.

1. Name of conveying party(ies):  
Roger L. Schultz, Orlando De Jesus, Andrew J. Osborne, Jr.  
Additional name(s) of conveying party(ies) attached?  Yes  No

2. Name and address of receiving party(ies):  
Name: Halliburton Energy Services, Inc.

3. Nature of conveyance:  
 Assignment  Merger  
 Security Agreement  Change of Name  
 Other

Address: 10200 Bellaire Blvd., Houston, TX 77072-5299, U.S.A.  
Additional name(s) & address(es) attached?  Yes  No

Execution Date: 2/28/02, 3/6/02, 2/26/02

4. Application number(s) or patent number(s): ..... (Atty.Docket SC-00-13)  
If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

A. Patent Application No.(s)  
10/040,304

B. Patent No.(s)

Additional numbers attached?  Yes  No

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

**Robert Groover**  
17000 Preston Rd. #230,  
Dallas TX 75248  
(972) 380-6333

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41).....\$40  
 Enclosed  
 Authorized to be charged to deposit account

8. Deposit account number:  
07-2320  
(Attach duplicate copy of this page if paying by deposit account)

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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.*

Robert Groover  
Name of Person Signing

[Signature]  
Signature

5/24/02  
Date

Total number of pages including cover sheet, attachments, and document: 3

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

05/29/2002 ZJUHR1 00000022 10040304

04 FC:581

40.00 OP

**ASSIGNMENT**

As a below-named inventor of the U.S. patent application entitled **Differential Sensor Measurement Method and Apparatus to Detect a Drill Bit Failure and Signal Surface Operator**, which names an inventorship of Roger L. Schultz and Orlando De Jesus and Andrew J. Osborne Jr., and which was filed 10/26/2001 (MM/DD/YY) and received Serial No. **10/040,304**, I hereby sell, assign and transfer to **Halliburton Energy Services, Inc.**, 10200 Bellaire Blvd., Houston, TX 77072-5299, U.S.A., (hereinafter referred to as ASSIGNEE), for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the full and exclusive right, title and interest to said invention in the United States and its territorial possessions and in all foreign countries and to all Letters Patent or similar legal protection in the United States and its territorial possessions and in all foreign countries to be obtained for said invention by said application or any division, continuation, continuation-in-part, renewal, substitute, extension, re—examination or reissue thereof or any legal equivalent thereof in any foreign country for the full term or terms of which the same may be granted, and specifically including the right to file foreign applications and claim priority therefor under the provisions of any convention or treaty;

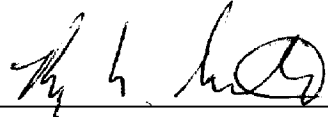
and I also hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale;

and I further hereby covenant that I will, upon ASSIGNEE’S request, promptly provide ASSIGNEE with all pertinent facts and documents, relating to said application, to any invention disclosed therein, or to any of said Letters Patent or legal equivalents thereof in the United States or in foreign countries, as may be known and accessible to me, and that I will testify and give evidence as to the same in any litigation or interference which may arise, and that I will promptly execute and deliver to ASSIGNEE or its legal representative, without charge but at Assignee’s expense, any and all papers, instruments or affidavits which may be required, necessary or desirable for the purpose of applying for, obtaining, maintaining, issuing or enforcing said application and said Letters Patent and said equivalents thereof in the United States or in any foreign country; and I further authorize ASSIGNEE or its legal representative to make any submissions or true declarations which may be needed in connection with the prosecution of this application or related applications in the U.S. or in other countries, consistent with the requirements of the applicable country;

AND I HEREBY AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on said invention to ASSIGNEE, its successors and assigns.

IN WITNESS WHEREOF, this Assignment has been executed on the date set forth below.

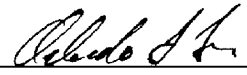
Inventor's Name: Roger L. Schultz

Signature: 

Residence Address: 4792 Red Oak Circle, Aubrey, TX 76227, U.S.A.

Today's Date, and Date Application Signed: 2/28/02

Inventor's Name: Orlando De Jesus

Signature: 

Residence Address: 120 Brumley, Apt #5, Stillwater, OK 74074, U.S.A.

Today's Date, and Date Application Signed: 3/6/02

Inventor's Name: Andrew J. Osborne Jr.

Signature: 

Residence Address: 10229 Linkwood Drive, Dallas, TX 75238, U.S.A.

Today's Date, and Date Application Signed: 2/26/02