To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):
   Michael L. Connell
   Robert G. Howard
   James C. Tucker
   Douglas N. Love
   10/12/01
   Additional name(s) of conveying party(ies) attached? □ Yes □ No

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

Execution Date: October 12, 2001

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: 10/12/01
   A. Patent Application No.(s)
   09/977,168
   Additional numbers attached? □ Yes □ No

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

6. Total number of applications and patents involved: [ ]

7. Total fee (37 CFR 3.41) ............. $ 40.00
   □ Enclosed
   □ Authorized to be charged to deposit account

8. Deposit account number:
   08-0300

   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.
   John W. Wustenberg
   Name of Person Signing
   Signature
   12 OCT 01
   Date

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

Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231

PATENT
REEL: 012284 FRAME: 0337
ASSIGNMENT

Whereas, I/We, Michael L. Connell of Stephens County, Duncan, Oklahoma; Robert G. Howard of Stephens County, Duncan, Oklahoma; James C. Tucker of Carter County, Springer, Oklahoma and Douglas N. Love, of Midland County, Midland Texas, have invented APPARATUS AND METHOD FOR LOCATING JOINTS IN COILED TUBING 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, in consideration of the sum of ten dollars ($10.00) and other 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 first executed on October 12, 2001, submitted concurrently herewith, 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 12th day of October, 2001, at Duncan, Stephens County, Oklahoma U.S.A.

Michael L. Connell

State of Oklahoma )
) ss
County of Stephens )

Before me personally appeared said Michael L. Connell and acknowledged the foregoing instrument to be his free act and deed this 12th day of October, 2001.

Seal

Sheila D. Hites
(Notary Public)

My Commission Expires: September 13, 2004

Executed this _______ day of October, 2001, at Duncan, Stephens County, Oklahoma U.S.A.

                   ______________________________
                   Robert G. Howard

State of Oklahoma )
) ss
County of Stephens )

Before me personally appeared said Robert G. Howard and acknowledged the foregoing instrument to be his free act and deed this ___________ day of October, 2001.

Seal

(Notary Public)

My Commission Expires: September 13, 2004
Executed this 12th day of October, 2001, at Duncan, Stephens County, Oklahoma U.S.A.

James C. Tucker

State of Oklahoma )
                ) ss
County of Stephens )

Before me personally appeared said James C. Tucker and acknowledged the foregoing instrument to be his free act and deed this 12th day of October, 2001.

Seal

Sheila D. Miles
       (Notary Public)

My Commission Expires: September 13, 2004

Executed this _________ day of October, 2001, at Midland, Midland County, Texas U.S.A.

Douglas N. Love

State of Texas )
    ) ss
County of Midland )

Before me personally appeared said Douglas N. Love and acknowledged the foregoing instrument to be his free act and deed this ____________ day of October, 2001.

Seal

       (Notary Public)

My Commission Expires: September 13, 2004
ASSIGNMENT

Whereas, I/We, Michael L. Connell of Stephens County, Duncan, Oklahoma; Robert G. Howard of Stephens County, Duncan, Oklahoma; James C. Tucker of Carter County, Springer, Oklahoma and Douglas N. Love, of Midland County, Midland Texas, have invented APPARATUS AND METHOD FOR LOCATING JOINTS IN COILED TUBING OPERATIONS for which I have made application for Letters Patent of the United States; and

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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 12th day of October, 2001, at Duncan, Stephens County, Oklahoma U.S.A.

Michael L. Connell

State of Oklahoma  )
) ss
County of Stephens  )

Before me personally appeared said Michael L. Connell and acknowledged the foregoing instrument to be his free act and deed this 12th day of October, 2001.

Seal

Sheila D. Wells
(Notary Public)

My Commission Expires: September 13, 2004

Executed this ________ day of October, 2001, at Duncan, Stephens County, Oklahoma U.S.A.

Robert G. Howard

State of Oklahoma  )
) ss
County of Stephens  )

Before me personally appeared said Robert G. Howard and acknowledged the foregoing instrument to be his free act and deed this ________ day of October, 2001.

Seal

(Notary Public)

My Commission Expires: September 13, 2004
Executed this 12th day of October, 2001, at Duncan, Stephens County, Oklahoma U.S.A.

James C. Tucker

State of Oklahoma

) ss

County of Stephens

Before me personally appeared said James C. Tucker and acknowledged the foregoing instrument to be his free act and deed this 12th day of October, 2001.

Seal

Sheila D. H. Lio
(Notary Public)

My Commission Expires: September 13, 2004

Executed this ________ day of October, 2001, at Midland, Midland County, Texas U.S.A.

Douglas N. Love

State of Texas

) ss

County of Midland

Before me personally appeared said Douglas N. Love and acknowledged the foregoing instrument to be his free act and deed this ________ day of October, 2001.

Seal

(Notary Public)

My Commission Expires: September 13, 2004