

09-26-2001

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U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office



101855990

Tab settings

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

1. Name of conveying party(ies):
Chen-Kang Chen and William H. Smith, Jr. *09/18/01*

Additional names(s) of conveying party(ies) Yes No

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

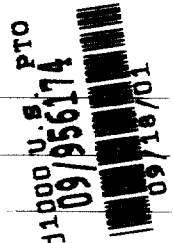
Name: **Halliburton Energy Services, Inc.**

Internal Address: _____

Street Address: **4100 Clinton Drive**

City: **Houston** State: **TX** ZIP: **77020**

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



3. Nature of conveyance:

Assignment Merger

Security Agreement Change of Name

Other

Execution Date: **September 10, 2001; September 17, 2001**

4. Application number(s) or registration numbers(s):

If this document is being filed together with a new application, the execution date of the application is: **09/10/01 & 09/17/01**

A. Patent Application No.(s)

09/21/2001 EFLDRES 00000050 09956174
02 FC:581 40.00 DP

09/956174

Additional numbers attached? Yes No

B. Patent No.(s)

6. Total number of applications and patents involved: **1**

7. Total fee (37 CFR 3.41):.....\$ **40.00**

Enclosed - Any excess or insufficiency should be credited or debited to deposit account

Authorized to be charged to deposit account

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

Name: **Loren G. Helmreich**

Internal Address: **BROWNING BUSHMAN**

Street Address: **5718 Westheimer, Suite 1800**

City: **Houston** State: **TX** ZIP: **77057**

8. Deposit account number:

02-4345

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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.

Loren G. Helmreich *[Signature]* **September 18, 2001**

Name of Person Signing Signature Date

Total number of pages including cover sheet, attachments, and document: **2**

ASSIGNMENT

WHEREAS, we, Chen-Kang D. Chen, a citizen of the ^{United States} ~~Republic of China~~, residing in Houston, Texas and William H. Smith, a citizen of the United States, residing in New Orleans, Louisiana, have made an invention entitled **STEERABLE UNDERREAMING BOTTOM HOLE ASSEMBLY AND METHOD** for which we have executed an application for U.S. Letters Patent;

WHEREAS, Halliburton Energy Services, Inc. a Delaware Corporation, hereinafter referred to as "ASSIGNEE," of 4100 Clinton Drive, Houston, Texas 77020, is desirous of acquiring the same;

NOW, THEREFORE, for and in consideration of Ten Dollars (\$10.00) and for other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged by us, we have assigned, sold, transferred and set over and by these presents do assign, sell, transfer and set over unto said ASSIGNEE the entire right, title and interest in and to (a) said invention and world-wide rights therein, (b) said application, including all divisions, continuations, continuations-in-part and substitutions thereof, and (c) all United States and foreign patents which shall issue on said inventions, including all reissues, renewals and extensions thereof, for the United States, its territories and possessions and all foreign countries, including the right to file applications for Letters Patent on said invention in any and all foreign countries, the same to be held and enjoyed by said ASSIGNEE, its assigns and successors, as fully and entirely as the same would have been held and enjoyed by me, had this assignment and sale not been made.

We covenant and agree that we will, at any time upon the request and at the expense of said ASSIGNEE, execute and deliver any and all papers and do all lawful acts that may be necessary or desirable, in the opinion of said ASSIGNEE, to enable and assist said ASSIGNEE to (a) obtain Letters Patent, both domestic and foreign, on said invention, (b) establish, maintain and secure title in said ASSIGNEE, its successors and assigns, to said invention, application and Letters Patent, including making such title of lawful public record, and (c) defend, establish or otherwise preserve the validity of said Letters Patent against any and all infringers, and perform such other acts as are necessary to give full force and effect to this assignment.

We hereby authorize and request the Commissioner of Patents of the United States to issue all Letters Patent based on said application and all said divisions, continuations, continuations-in-part, reissues, renewals and extension to said ASSIGNEE, its successors and assigns.

IN TESTIMONY WHEREOF, we have executed this assignment as follows:

Date: 9-17-2001

Chen-Kang D. Chen
Chen-Kang D. Chen

Date: 9-10-2001

William H. Smith, Jr.
William H. Smith, Jr.