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02-03-2000

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

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

1. Name of conveying party(ies):
Rogers Tool Works, Inc.

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: **3000 North Sam Houston Parkway East**
City: **Houston** State: **TX** ZIP: **77032**

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

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

Execution Date: **July 2, 1999**

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: _____

A. Patent Application No.(s)
08/958,087

B. Patent No.(s)

Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:
Name: **Carlos A. Torres**
Internal Address: **Browning Bushman**
Street Address: **5718 Westheimer, Suite 1800**
City: **Houston** State: **TX** ZIP: **77057**

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

8. Deposit account number:
02-4345

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9. Statement and signature. (40.00 OP)
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.

Carlos A. Torres *Carlos A. Torres* **January 10, 2000**
Name of Person Signing Signature Date

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

Exhibit A
MUTUAL ASSIGNMENT AND EXCLUSIVE LICENSE

WHEREAS ROGERS TOOL WORKS, INC., a Delaware corporation having an address of 205 N. 13th Street, Rogers, Arkansas 72756 (herein "RTW") is the owner of U.S. patent application serial no. 08/958,087 and of the inventions therein disclosed and claimed; and

WHEREAS HALLIBURTON ENERGY SERVICES, INC., a Delaware corporation having a place of business at 3000 North Sam Houston Parkway East, Houston, Texas 77032 (hereinafter "Halliburton") and RTW (herein the "assignees") desire to acquire jointly said patent application and inventions;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, RTW does hereby sell, assign, transfer and set over, unto the assignees, their successors, legal representatives and assigns, the entire right, title and interest in and to the aforesaid patent application, the inventions claimed therein, and any and all patents in the United States of America and all foreign countries which may be granted therefor and thereon, and in and to any and all direct and indirect divisions, and continuations of said applications, and continuations-in-part of said applications (only if containing any claims on apparatus and/or methods for indexing oriented nozzles enabled by the disclosure of said applications), or reissues, reexaminations, or extensions of said patents, and all rights under the International Convention for the Protection of Industrial Property, said rights to include any and all rights of recovery based on past infringement of any and all said inventions and said patents, the same to be held and enjoyed by the assignees, jointly, in equal, undivided shares, provided that RTW shall have the sole rights outside the Earth Boring Business Segment (namely, earth boring applications, including without limitation earth boring in oil and gas well drilling, in mining and in construction), and Halliburton shall have the sole rights within the Earth Boring Business Segment, for their own use and benefit and the use and benefit of their successors, legal representatives and assigns, to the full end of the term or terms for which patents may be granted, and all extensions thereof, as fully and entirely as the same would have been held and enjoyed by RTW, had this sale and assignment not been made.

Signed at Latrobe, in the County of Westmoreland, State of PA, this 2nd day of July, 1999.

ROGERS TOOL WORKS, INC.

By: T.A. Hubbard
Type Name: T.A. HUBBARD
Title: VICE PRESIDENT

STATE OF Pennsylvania

COUNTY OF Westmoreland ss: On this 2nd day of July, 1999 personally before me came T.A. Hubbard, known to me, and known to me to be the person described and who signed the annexed assignment, and, being duly sworn, acknowledged that he executed the same.

(SEAL)

Jacqueline L. Zill
Notary Public

