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U.S. DEPARTMENT OF COMMERCE  
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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):

John B. Sved

7-30-02

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

Name: Hard Rock Drilling &amp; Fabrication, L.L.C.

Internal Address \_\_\_\_\_

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

## 3. Nature of conveyance:

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other \_\_\_\_\_

Execution Date: July 29, 2002

Street Address: 861 West 2860 South

City: Syracuse State: Utah Zip: 84075

Additional name(s) & address(es) attached? ☐ Yes ☒ 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: July 29, 2002

A. Patent application No.(s)

10/208114

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: Daniel P. McCarthy, Esq.

Internal Address: \_\_\_\_\_

Street Address: PARSONS BEHLE &amp; LATIMER

201 South Main Street, Suite 1800

City: Salt Lake City State: Utah Zip: 84111

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

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

- ☒ Enclosed  
☐ Authorized to be charged to deposit account

## 8. Deposit account number:

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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.

Alison B. Mohr

Name of Person Signing

fblmhr  
Signature

July 30, 2002

Date

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

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PATENT

REEL: 013185 FRAME: 0464

# ASSIGNMENT

**INVENTOR:** John B. Sved

**DOCKET:** 5089.1 P

**TITLE:** STEERABLE HORIZONTAL SUBTERRANEAN DRILL BIT

**ASSINGEE:** Hard Rock Drilling & Fabrication L.L.C

WHEREAS, the Inventor has made an invention or discovery referred to as the "Invention" which is described and claimed in the application for Letters Patent submitted herewith; and WHEREAS, the Assignee is desirous of acquiring all of the Inventor's rights, title and interest in said invention or discovery and said patent application:

NOW, THEREFORE, in return for good and valuable consideration, receipt of which is hereby acknowledged, the Inventor, by these presents, does hereby sell, assign, and transfer unto Assignee all rights, title and interest in and to the following: (1) said Invention as described in said patent application, (2) said patent application, (3) any letters Patent issuing from said patent application, and (4) all intellectual property (including patent rights, trade secrets and copyrights) in or to said Invention. Said assignment is without any geographic limitation and shall include the United States of America and all foreign countries. All rights, title and interest in said Invention, said patent application, any Letters Patent issuing from said patent application, and said intellectual property are to be held and enjoyed by Assignee for its own use and behalf, and for that of its legal representatives and assigns, as fully and entirely as the same would have been held by the Inventors had this assignment and sale not been made. Assignee shall be free to assign, license or otherwise exploit said Invention, said patent application, any Letters Patent issuing from said patent application, and said intellectual property.

AND the Inventor does 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 other patent application (including divisional, continuing, continuation-in-part, reissue and foreign applications) based on the present patent application or said Invention. Any such other patent application is deemed to be part of the above assignment.

AND the Inventor does further agree to communicate to Assignee its successors, assigns or other legal representatives, such facts relating to said Invention as may be known to any of them, and to testify as to such facts in any prosecution, interference or litigation.

AGREED TO AND ACCEPTED BY:

Inventor's Signature: 

Inventor's Full Name: John B. Sved

Date: 07/29/02