

12/15/06  
12/15-2006  
103349805  
PATENTIS ONLY  
EET  
U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

ORM PTO-1595  
1-31-92



103349805  
PATENTIS ONLY

EET

U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

To the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. Please record the attached Assignment document.

1. Name of conveying party(ies):  
Leland H. Lyon

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

Name: Atlas Copco Secoroc AB

Address:

Box 521  
Fagersta SE-737 25  
Sweden

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

3. Nature of Conveyance: Assignment

Execution Date: December 8, 2006

4. This document is being filed together with a new application. The execution date of the application is: December 8, 2006

NO ADDITIONAL NUMBERS ATTACHED.

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

Mark A. Ussai  
Michael Best & Friedrich LLP  
100 East Wisconsin Avenue  
Suite 3300  
Milwaukee, Wisconsin 53202-4108

Phone: 215.822.9104

6. Total number of applications and patents involved: 1

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

☒ Enclosed (See Fee Transmittal)

☒ Deficiencies in fee charged to Deposit Account

8. Deposit account number: 13-3080

DO NOT USE THIS SPACE

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.

Mark A. Ussai (Reg. No. 42,195)  
Name of Person Signing

Signature

December 8, 2006  
Date

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

OMP No. 0651-0011 (exp. 4/94) H:\PFORM\ASSIGN.CS1

Attorney File 012854-9138-01

## A S S I G N M E N T

Pursuant to my obligation to Atlas Copco Secoroc AB (hereinafter referred to as "Assignee"), a Swedish Joint-Stock company having its principal place of business at:

Box 521  
Fagersta SE-737 25  
Sweden

and for other valuable and sufficient consideration, receipt whereof is hereby acknowledged, I:

Leland H. Lyon  
67 Buck Lane  
Roanoke, VA 24012

confirm my obligation to and hereby sell, assign and convey, unto Assignee, its successors and assigns, my entire right, title and interest -

(1) in and to an invention entitled "ENTRAINMENT FLUID CHANNELING DEVICE FOR A DOWN-HOLE DRILL STRING" the specification of which was filed with my authority on 24 June 2005 as International Patent Application No. PCT/US2005/022330 (Atty. File No. 012854-9138-01) ("PCT Application");

(2) in and to any United States national phase patent application based on said PCT Application, in and to all other patent applications (including divisional, continuation-in-part, §111(b) provisional, §111(a), and reissue applications) based upon said invention, and in and to the patent or patents to be granted thereon, including reissues thereof, if any, to the full end of the term or terms for which said patent or patents may be granted;

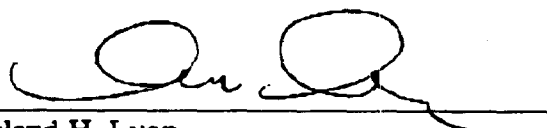
(3) in and to all patent applications on said invention now or hereafter filed in countries foreign to the United States of America, and in and to any and all patents granted on said applications to the full end of the terms for which said patents may be granted; and

(4) under the International Convention in respect to the United States patent application and/or said PCT Application and agree that any patent applications of any foreign countries which may be filed shall be filed in the name of our Assignee with a claim to priority based on said United States application and/or said PCT Application.

And I hereby agree that I will, upon demand of Assignee, its successors or assigns, and without further consideration to me, execute any and all papers that may be necessary, or deemed by Assignee, its successors or assigns, to be necessary, to a complete fulfillment of the intent and purposes of this Assignment, it being understood that any expense incident to the execution of such papers shall be paid by Assignee, its successors and assigns, and not by me.

And the Commissioner of Patents and Trademarks of the United States is hereby authorized and requested to issue the said United States patent or patents to Assignee.

12/8/2006  
Date:

  
Leland H. Lyon