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Form **PTO-1595** (Rev. 03/01)

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Tab settings	
1. Name of conveying party(ies): ALISTAIR MICHAEL FALVEY WILLOUGHBY GARTSIDE	Name and address of receiving party(ies) Name: HALCO DRILLING INTERNATIONAL LIMITED 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: 09/28/2001 and 09/29/2001	Street Address: P.O. BOX 25, WEST LANE SOUTHOWRAM, HALIFAX HX3 9TX City: UNITED KINGDON State: Zip: No
4. Application number(s) or patent number(s):	Additional mame(s) & address(es) attached?
If this document is being filed together with a new appli A. Patent Application No.(s) 09/913,257	cation, the execution date of the application is: B. Patent No.(s) JAN - 7 2002
Additional numbers attached? Yes No	
Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: 1
Name:Arnold B. Silverman	7. Total fee (37 CFR 3.41)\$\$
Internal Address: Eckert Seamans Cherin &	Enclosed
Mellott, LLC	Authorized to be charged to deposit account
Street Address: 600 Grant Street, 44th Floor	8. Deposit account number:
	02-2556
City: Pittsburgh State: PA Zip: 15219	(Attach duplicate copy of this page if paying by deposit account)
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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. Sally Novosel October 11, 2001	
Name of Person Signing	Signature Date
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PATENT REEL: 012443 FRAME: 0246

Assignment

WHEREAS, We, Alistair Michael FALVEY and John Willoughby GARTSIDE, residing respectively at 32 Lakes Road, Brixham, Devon TQ5 8PS, UNITED KINGDOM and 15 The Ghyll, Fixby, Huddersfield, West Yorkshire HD2 2FE, UNITED KINGDOM, both citizens of the United Kingdom, have invented certain new and useful improvements in DIRECTIONAL DRILLING APPARATUS for which we filed United States Patent Application Serial No. 09/913,257, having a filing date of August 10, 2001;

AND WHEREAS Halco Drilling International Limited, located at P.O. Box 25, West Lane, Southowram, Halifax HX3 9TW, UNITED KINGDOM, hereinafter called the "assignee", is desirous of acquiring the entire right, title, and interest in and to said application and the inventions and improvements therein disclosed;

NOW, THEREFORE, in consideration of One (\$1.00) Dollar and other good and valuable consideration paid to us by said assignee, receipt whereof we hereby acknowledge, we do hereby assign, sell, transfer, and set over unto said assignee the entire right, title, and interest in and to said application and the inventions and improvements therein disclosed for the United States and all foreign countries and any Letters Patent which may issue therefor in the United States and all foreign countries and all divisions, reissues, continuations, renewals, and/or extensions thereof including all priority rights under the International Convention associated therewith for each country and the Union, said assignee to have and to hold the interests herein assigned to the full ends of the terms of said Letters Patent and any and all divisions, reissues, continuations, renewals, and/or extensions thereof, respectively, as fully and entirely as the same would have been held and enjoyed by us had this assignment not been made.

The Commissioner of Patents and Trademarks is requested to issue such Letters Patent in accordance herewith. We covenant that we are the lawful owners of the said application, inventions, and improvements, that the same are unencumbered, that no license has been granted to make, use, or vend the said inventions or improvements or any of them, and that we have the full right to make this assignment.

And for the consideration aforesaid, we agree jointly and individually that we will communicate to said assignee or the representatives thereof any facts known to us respecting said inventions and improvements, and will, upon request, but without expense to us, testify in any legal proceedings, sign all lawful papers, execute all divisional, reissue, continuation, renewal, and/or extension applications, make all rightful oaths, and generally do all other and further lawful acts, deemed necessary or expedient by said assignee or by counsel for said assignee, to assist or enable said assignee to obtain and enforce full benefits from the rights and interests herein assigned. This assignment shall be binding upon our heirs, executors, administrators, and/or assigns, and shall inure to the benefit of the heirs,

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executors, administrators, successors, and/or assigns, as the case may be, of said assignee.	
EXECUTED, 2001.	
Witness:	
EXECUTED	
Witness: Date: Date: T.S. Q of Printed Name:	

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RECORDED: 01/07/2002

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