	09-11-2003	
	Form PTO-1595 (Rev. 10/02) OMB No. 0651-0027 (exp. 6/30/2005) Tab settings $\Rightarrow \Rightarrow \Rightarrow \checkmark$ 102546	
	To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.	
	1. Name of conveying party(ies): Kevin L. Glass Oliver Matthews III	2. Name and address of receiving party(ies) Name: <u>Halliburton Energy Services, Inc.</u> Internal Address:
	Additional name(s) of conveying party(ies) attached? Yes 🖌 No	
	3. Nature of conveyance:	
	 ✓ Assignment ✓ Merger ✓ Security Agreement ✓ Change of Name 	Street Address: <u>10200 Bellaire Blvd</u>
	Other	
		City: HoustonState: TX Zip: 77072-5299
	05/13/02 Execution Date:	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: 	
	A. Patent Application No.(s) <u>10/108,252</u>	B. Patent No.(s)
	Additional numbers attached? Yes Vo	
	5. Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved:
	Name:Robert O. Groover III	7. Total fee (37 CFR 3.41)\$40.00
	Internal Address:	Enclosed
/10/2003	ECOUPER 00000136 10108252	Authorized to be charged to deposit account
)i FC :80 21	40.00 00 Street Address: 11330 Valley Dale Drive	8. Deposit account number:
		07-2320
	City: DallasState: TXZip: 75230	7: 38 ICE
	9. Signature.	
	Robert O. Groover III	September $\frac{1}{2003}$
	Name of Person Signing	Signature Date
	Total number of pages including cover sheet, attachments, and documents:	
	Mail documents to be recorded with required cover sheet information to:	

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Commissioner of Patents & Trademarks, Box Assignments Washington, D.C. 20231

<u>ASSIGNMENT</u>

As a below-named inventor of the U.S. patent application entitled **Rock Drill Bits**, **Methods, and Systems with Torques Balanced for Transitions**, which names an inventorship of Kevin L. Glass and Matthews III, and which was filed 03/26/2002 (MM/DD/YY) and received Serial No. 10/108,252, I hereby sell, assign and transfer to **Halliburton Energy Services, Inc.**, (hereinafter referred to as ASSIGNEE), for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the full and exclusive right, title and interest to said invention in the United States and its territorial possessions and in all foreign countries and to all Letters Patent or similar legal protection in the United States and its territorial possessions and in all foreign countries to be obtained for said invention by said application or any division, continuation, continuation-in-part, renewal, substitute, extension, re—examination or terms of which the same may be granted, and specifically including the right to file foreign applications and claim priority therefor under the provisions of any convention or treaty;

and I also hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale;

and I further hereby covenant that I will, upon ASSIGNEE'S request, promptly provide ASSIGNEE with all pertinent facts and documents, relating to said application, to any invention disclosed therein, or to any of said Letters Patent or legal equivalents thereof in the United States or in foreign countries, as may be known and accessible to me, and that I will testify and give evidence as to the same in any litigation or interference which may arise, and that I will promptly execute and deliver to ASSIGNEE or its legal representative, without charge but at Assignee's expense, any and all papers, instruments or affidavits which may be required, necessary or desirable for the purpose of applying for, obtaining, maintaining, issuing or enforcing said application and said Letters Patent and said equivalents thereof in the United States or in any foreign country; and I further authorize ASSIGNEE or its legal representative to make any submissions or true declarations which may be needed in connection with the prosecution of this application or related applications in the U.S. or in other countries, consistent with the requirements of the applicable country;

PATENT REEL: 014464 FRAME: 0714

RECORDED: 09/08/2003