FORM PTO-1595 5.7.98

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BOX ASSIGNMENT Commissioner of Patents and Trademarks Washington, D.C. 20231

Commissioner of Patents and Trademarks: Please record the attached original documents and trademarks:

1.	Name of conveying party(ies):	2. Name and address of receiving party(ies):				
	David Truax,		Na	me:	Smith International, Inc.	
	Ghanshyam Rai, Stephen G. Southland,		Str	eet Address:		
	Gary R. Portwood				16740 Hardy Street	
	Additional name(s) of conveying party(ies) attached: NO				Houston, Texas 77032	
3.	Name of conveyance:					
X	Assignment ☐ Merger Security Agreement ☐ Change of Name Other:					
Exe	ecution Date: April 27, 1998; March 19, 1998; March 19, 1998; March 18, 1998; respectively.		Ad	ditional name(s)	& address(es) attached? NO	
4.	Application number(s) or patent number(s):					
	If this document is being filed together with a new application:	ation,	the	execution date of	the application	
	A. Patent Application No.(s)	[В.	Patent No.(s)		
	Application No. 08/976,913; Filed November 24, 1997					
Additional numbers attached? NO						
5.	Please return the recorded document and address all correspondence to:	6.	Tot	tal number of app	lications and patents involved 1	
	CHRISTIE, PARKER & HALE, LLP					
	P.O. Box 7068 Pasadena, CA 91109-7068	7.	X	Total fee enclos	ed (37 CFR 3.41): \$ 40.00	
,	Attention: Constantine Marantidis	8.	X	credited to Dep issue fees require	or overpayment of fees should be charged or osit Account No. 03-1728, except for payment of red under 37 CFR § 1.18. Please show our docket	
10.	• □ Explanatory letter is enclosed.			number with an	credit or charge to our deposit account.	
9.	Statement and signature. To the best of my knowledge and belief, the foregoing ir original document. Date: May 1, 1998 I HERECY CERTIFY THAT THIS CORRESPONDENCE IS BEING DEPOSITED WITH THE U.S. POSTAL SERVICE AS FIRST CLASS MAIL IN AN ENVELOPE ADDRESCED TO: COMMISSIONER DEPOSITION TRADEMARKS. WASHINGTON DEPOSITION May 1, 1998	ame:	Cor	n is true and corrections that the Marantine Marantine 000; 213/681-180	000000228 08576913	
	(DATE SIGNED) Constantine Marghtidis			umber of pages in ents, and docume	cluding cover sheet,	

ASSIGNMENT

WHEREAS, WE, David Truax, Ghanshyam Rai, Stephen G. Southland and Gary R. Portwood, residing at

9307 Point Park Drive, Houston, Texas 77095; 79 North Piney Plains Circle, The Woodlands, Texas 77382; 2630 Spring Dusk Lane, Spring, Texas 77373; and 3703 Fern View Drive, Kingwood, Texas 77345;

respectively, have invented certain new and useful improvements disclosed in an application for United States Letters Patent entitled CUTTER ASSEMBLY FOR ROCK BITS WITH BACK SUPPORT GROOVE, filed November 24, 1997, Application No. 08/976,913;

AND WHEREAS **Smith International, Inc.**, a Delaware corporation, having a place of business at 16740 Hardy Street, Houston, Texas 77032 (hereafter, together with any successors, legal representatives or assigns thereof, called "ASSIGNEE") wants to acquire the entire right, title and interest in and to said improvements and application.

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to us in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned, transferred and set over, and do hereby sell, assign, transfer and set over to ASSIGNEE the entire right, title and interest in and to said improvements, and said application and all divisions and continuations thereof, and all United States Letters Patents which may be granted thereon and all reissues, reexaminations and extensions thereof, and all priority rights under all available International Agreements, Treaties and Conventions for the protection of intellectual property in its various forms in every participating country, and all applications for patents (including related rights such as utility-model registrations, inventor's certificates, and the like) heretofore or hereafter filed for said improvements in any foreign countries, and all patents (including all continuations, divisions, extensions, renewals, substitutes, and reissues thereof) granted for said improvements in any foreign countries; and we hereby authorize and request the United States Commissioner of Patents and Trademarks, and any officials of foreign countries whose duty it is to issue patents on applications as aforesaid, to issue all patents for said improvements to ASSIGNEE in accordance with the terms of this Assignment;

AND WE HEREBY covenant that we have full right to convey the entire interest herein assigned, and that we have not executed, and will not execute, any agreement in conflict herewith;

AND WE HEREBY further covenant and agree that we will communicate to ASSIGNEE any facts known to us respecting said improvements, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute and reissue applications, make all rightful oaths and generally do everything possible to aid ASSIGNEE to obtain and enforce proper patent protection for said improvements in all countries.

IN TESTIMONY WHEREOF, I hereunto set my hand	d this <u>2.7</u> day of <u>Apr. /</u> , 19 <u>98</u>
	David Truax
STATE OF TENES) COUNTY OF HOLLIS)	
On	me (or proved to me on the basis of satisfactory evidence) instrument and acknowledged to me that he executed the ure on the instrument the person, or the entity upon behalf
MONICA LANDRY	WITNESS my hand and official seal.
NOTARY PUBLIC, STATE OF TEXAS MY COMMISSION EXPIRES FEB. 9, 1999	Signature of Notary
* * * 1	*****
IN TESTIMONY WHEREOF, I hereunto set my hanc	If this $\frac{10}{4}$ day of $\frac{100}{4}$.
	Ghanshyana Rai
evidence) to be the person whose name is subscribed	own to me (or proved to me on the basis of satisfactory to the within instrument and acknowledged to me that he by his signature on the instrument the person, or the entity
	WITNESS my hand and official seal.
MONICA LANDRY NOTARY PUBLIC, STATE OF TEXAS MIT COMMISSION EXPIRES FEER 9, 1999	Signature of Notary
	* * * * *

IN TESTIMONY WHEREOF, I hereunto set my hand this 19 day of March 19 98
Stephen G. Southland
STATE OF COUNTY OF On
MONICA LANDRY NOTARY PUBLIC, STATE OF TEXAS MY COMMISSION EXPIRES FEB 9 1996 Signature of Notary
IN TESTIMONY WHEREOF, I hereunto set my hand this
STATE OF COUNTY OF HOLD) On 3 18 98 before me COUNTY (A COUNTY), Notary Public, personally appeared Gary R. Portwood personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in is authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.
MONICA LANDRY NOTARY PUBLIC, STATE OF TEXAS MY COMMISSION EXPIRES FEB. 9, 1999 Signature of Notary

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