PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE: NEW ASSIGNMENT

NATURE OF CONVEYANCE: ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Zhehua Zhang	12/22/2010

RECEIVING PARTY DATA

Name:	Smith International, Inc.	
Street Address:	1310 Rankin Road	
City:	Houston	
State/Country:	State/Country: TEXAS	
Postal Code:	77073	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12985054

CORRESPONDENCE DATA

Fax Number: (713)228-8778

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

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Email: landgraf@oshaliang.com
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Address Line 1: 909 Fannin Street

Address Line 2: Suite 3500

Address Line 4: Houston, TEXAS 77010

ATTORNEY DOCKET NUMBER: 05516/455003

NAME OF SUBMITTER: Traci Landgraf

Total Attachments: 2

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OF \$40.00 129850

PATENT REEL: 025619 FRAME: 0200

ASSIGNMENT - WORLDWIDE

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the undersigned individual(s) (referred to herein as the "INVENTOR(S)") hereby assign, transfer, and set over to:

Smith International, Inc.

having the following address:

1310 Rankin Rd. Houston, Texas 77073

(referred to herein as "COMPANY"), its successors, and assigns, the entire right, title, and interest, worldwide, in and to the invention known by the following title:

HIGH-SHEAR ROLLER CONE AND PDC HYBRID BIT

for which the undersigned has/have executed an application for patent in the United States of America on or about this same day, together with said patent application, all divisions, continuations, continuations-in-part, reissues, and extensions thereof, and all Letters Patent (domestic and foreign) which may be granted therefor. Such interest represents the entire ownership of said applications and Letters Patent when granted and is to be owned by COMPANY, its successors, and assigns, or their legal representatives, for the full and entire term for which such Letters Patent may be granted or extended, as fully and entirely as the same would have been enjoyed by the INVENTOR(S) if this assignment had not been made.

In addition, the undersigned INVENTOR(S) each hereby agrees:

- To sign and execute any further documents which may be necessary or desirable, lawful, and proper in connection with the prosecution of all applications for patent(s) on the INVENTION in the United States, including without limitation said application and all divisions, continuations, continuations-in-part, amendments thereof, and all interference proceedings associated therewith, or otherwise necessary or desirable to secure the title thereto to COMPANY;
- To execute all papers and documents and to perform all lawful acts which may be necessary in connection with claims to priority or otherwise under the International Convention for the Protection of Industrial Property or similar treaties or agreements;
- 3. To perform all lawful affirmative acts which may be necessary to obtain the grant of a valid and enforceable patent to COMPANY.

The undersigned INVENTOR(S) each hereby authorizes and requests the Commissioner of Patents and Trademarks in the United States to issue any and all Letters Patent resulting from said application, including without limitation any division, continuation, continuation-in-part, or reissue thereof to COMPANY.

The undersigned INVENTOR(S) each hereby grants to the firm of OSHA LIANG LLP the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for the recordation of this document.

OSHA

PATENT REEL: 025619 FRAME: 0201

*1**			as been executed by each of the undersigned
maiv	iduals on the date appearing b $\frac{12/32/10}{}$	•	Thehun 2) l = Zhehua Zhang
	Date	Print or Type Name:	Zhehua Zhang
		2 nd Inventor Signature:	
Date		Print or Type Name:	
	Date		
	Date	Print or Type Name:	
		4 th Inventor Signature:	
	Date	Print or Type Name:	
NOTARY PUBLIC	State of Tex as County of Harry Before me personally appeared: each of whom acknowledged the execute this Assignment.	Zhehua Zhang 1º Inventor 3º Inventor 5º Inventor 7º Inventor	2 rd Inventor 4 th Inventor 6 th Inventor 8 th Inventor 2t and deed and also represented that he/she is authorized to
	Dated: 13/22/1	ù / Ch	meior
S]	Notary Public	My commission expires: INEZ G. CAMERON MY COMMISSION EXPIRES June 8, 2012
SE		Signature of Witness:	
ES	Date	Print or Type Name:	
WITNESSES		Signature of Witness:	
5	Date	Print or Type Name:	

When this Assignment is <u>not</u> filed concurrently with the patent application, the following identifying information may be added <u>after</u> execution:

U.S. Application Serial No.:

12/985,054

Filing Date:

January 5, 2011

OSHA

Intellectual Property Law

PATENT REEL: 025619 FRAME: 0202

RECORDED: 01/11/2011