PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
NAVISH MAKKAR	11/08/2010
TOMMY RAY	10/06/2010
MANOJ MAHAJAN	11/10/2010
DWAYNE P. TERRACINA	11/10/2010
SAMEER BHOITE	11/10/2010

RECEIVING PARTY DATA

Name:	SMITH INTERNATIONAL, INC.
Street Address:	1310 RANKIN RD.
City:	HOUSTON
State/Country:	TEXAS
Postal Code:	77073

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12893652

CORRESPONDENCE DATA

Fax Number: (713)228-8778

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

THACH@OSHALIANG.COM Email: Correspondent Name: JEFFREY S. BERGMAN

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Address Line 4: HOUSTON, TEXAS 77010

ATTORNEY DOCKET NUMBER:	05516/495001
NAME OF SUBMITTER:	MINH S. THACH

PATENT REEL: 025489 FRAME: 0260

Total Attachments: 3

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> PATENT REEL: 025489 FRAME: 0261

Attorney Docket No.: 05516/495001; 09-SBE148

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:

DOWNHOLE REAMER ASYMMETRIC CUTTING STRUCTURES

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

	11/08/2010	1st Inventor Signature:	Nakker
	Date	Print or Type Name:	NY 11 NA 11
		2 nd Inventor Signature:	
	Date	Print or Type Name:	Tamer Day
		3 rd Inventor Signature:	
	Date	Print or Type Name:	Manoj Mahajan
		4th Inventor Signature:	
	Date	Print or Type Name:	Dwayne P. Terracina
		5 th Inventor Signature:	
	Date	Print or Type Name:	Sameer Bhoite
2		Manoj Mahajan 3º Invenor Sameer Bhoite	Dwayne P. Terracina
NOTARY PUBLIC	execute this Assignment.	Sameer Bhoite St Inversor Thinkersor	4 th Inventor 6 th Inventor 8 th Inventor
NOTARY PUI		Sameer Bhoite Sharmer Bhoite Thinwarder Foregoing instrument to be a free ac	6th Inventor 6th Inventor 8th Inventor
	execute this Assignment.	Sameer Bhoite St Inversor Thinkersor	4 th Inventor 6 th Inventor 8 th Inventor
S	execute this Assignment.	Sameer Bhoite Sharmer Bhoite Thinwarder Foregoing instrument to be a free ac	6th Inventor 6th Inventor 8th Inventor
	execute this Assignment.	Sameer Bhoite Sharenor Therenor Therenor A free ac Notary Public	6th Inventor 6th Inventor 8th Inventor
SSES	execute this Assignment. Dated:	Sameer Bhoite Staneor Bhoite Staneor Therenor Therenor Rotary Public Signature of Witness:	6th Inventor 6th Inventor 8th Inventor
SSES	execute this Assignment. Dated:	Sameer Bhoite Stancer Bhoite Stancer Bhoite Theresor Theresor Photographic Notary Public Signature of Witness: Print or Type Name:	6 th Inventor 8 th Inventor 8th Inventor 2th and deed and also represented that he/she is authorize My commission expires:

OSHALIANG

Intellectual Property Law

U.S. Application Serial No.: Filing Date: 12/893,652 September 29, 2010 individuals on the date appearing by such individual's signature: 1st Inventor Signature: Navish Makkar Date Print or Type Name: 2nd Inventor Signature: Tommy Ray Print or Type Name: Date 3rd Inventor Signature: Manoj Mahajan Print or Type Name: 4th Inventor Signature: Dwayne P. Terracina Print or Type Name: Bhode 5th Inventor Signature: Sameer Bhoite Print or Type Name: lexas State of County of NOTARY PUBLIC Before me personally appeared: 1st Inventor Dwayne P. Terracina Manoj Mahajan Sameer Bhoite 8th Inventor 7th inventor each of whom acknowledged the foregoing instrument to be a free act and deed and also represented that he/she is authorized to execute this Assignment. INEZ G. CAMERON MY COMMISSION EXPIRES June 8, 2012 **WITNESSES** Signature of Witness: Date Print or Type Name: Signature of Witness: Date Print or Type Name: When this Assignment is not filed concurrently with the patent application, the following identifying information may be added after execution: 12/893,652 U.S. Application Serial No.: September 29, 2010 Filing Date:

In WITNESS WHEREOF, this Assignment has been executed by each of the undersigned

RECORDED: 12/10/2010

Intellectual Property Law

PATENT REEL: 025489 FRAME: 0264