# 501835621 02/28/2012

### PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### CONVEYING PARTY DATA

Name	Execution Date
NAVISH MAKKAR	02/12/2012
BRIAN CRUICKSHANK	01/04/2012
CHARLES DEWEY	01/05/2012
MICHAEL G. AZAR	01/03/2012

### 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:	13324265

## CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	05516/497001
NAME OF SUBMITTER:	MINH S. THACH

**Total Attachments: 4** source=497001#page1.tif

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PATENT REEL: 027778 FRAME: 0098 IOP \$40.00 13324265

## 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:

# APPARATUSES AND METHODS FOR STABILIZING DOWNHOLE TOOLS

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;
- 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.



PATENT REEL: 027778 FRAME: 0099

IN WITNESS WHEREOF, this Assignment has been executed by each of the undersigned individuals on the date appearing by such individual's signature: 1st Inventor Signature: Navish Makkar Date Print or Type Name: 2<sup>nd</sup> Inventor Signature: Date Brian Cruickshank Print or Type Name: 3<sup>rd</sup> Inventor Signature: Print or Type Name: 4th Inventor Signature: Michael George Azar Print or Type Name: MA State of County of NOTARY PUBLIC Before me personally appeared: Michael George Azar Charles Dewey each of whom acknowledged the foregoing instrument to been free act and deed and also represented that he/she is authorized to execute this Assignment. INEZ G. CAMEBON Dated: | COMMISSION EXPINES Notary Public My commission symmetric June 8, 2012 **WITNESSES** Signature of Witness: Date Print or Type Name: Signature of Witness: ..... 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.: 13/324,265

Filing Date: December 13, 2011



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HA1		y sacu marvanai s signame	Navish Makkar
	Feb 12, Ac12	1" Inventor Signature:	Jacks
	vate	Print or Type Name:	Navish Makkar
		2 <sup>nd</sup> Inventor Signature:	Brian Cruickshank
Date		Print or Type Name:	Brian Cruickshank
		3 <sup>rd</sup> Inventor Signature:	
Date		Print or Type Name:	Charles Dewey
		4 <sup>th</sup> Inventor Signature:	
	Date	Print or Type Name:	Michael George Azar
			Michael George Azar  A proster
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	execute this Assignment.		and dood and also represented that he/she is authorized to
	execute this Assignment.	foregoing instrument to be a free act	and dood and also represented that he/she is authorized to
_	execute this Assignment.	foregoing instrument to be a free act  Notary Public  Signature of Witness:	and deed and also represented that he/she is authorized to  My commission expires:
	execute this Assignment.	foregoing instrument to be a free act  Notary Public  Signature of Witness:	and deed and also represented that he/she is authorized to My commission expires:
_	execute this Assignment.  Dated:	foregoing instrument to be a free act  Notary Public  Signature of Witness:	and deed and also represented that he/she is authorized to  My commission expires:
	execute this Assignment.  Dated:	Notary Public  Signature of Witness:  Print or Type Name:	and deed and also represented that he/she is authorized to  My commission expires:

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U.S. Application Serial No.: 13/324,265

Filing Date: December 13, 2011

**OSHA** 

Intellectual Property Law

PATENT REEL: 027778 FRAME: 0101

indivi	IN WITNESS WHE duals on the date appearing by		nas been executed by each of the undersigned re:
**********	Date	1 <sup>st</sup> Inventor Signature: Print or Type Name:	Navish Makkar
	1/4/12	2 <sup>nd</sup> Inventor Signature: Print or Type Name:	A CONTRACTOR OF THE PROPERTY O
******	Date	3 <sup>rd</sup> Inventor Signature: Print or Type Name:	The second second
	Date	4th Inventor Signature: Print or Type Name:	Michael George Azar
	State of Texas		
	County of   Harris   Before me personally appeared:	Navish Makkar Placestor Charles Dewey	Brian Cruickshank Investor Michael George Azar
NOTARY PUBLIC		S <sup>b</sup> Investor	C* Severator
Š	each of whom acknowledged the fi execute this Assignment.  Dated: 147012	- Xy	act and deed and also represented that he/she is authorized to
g		Notary Publy:	My commission e RUBY BURNS Notary Public. State of Tenas Comm. Esp. 12-04-14
WITNESSES	Date	Signature of Witness: Print or Type Name:	
Z	Date	Signature of Witness: Print or Type Name:	

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

U.S. Application Serial No.: 13/324,265

Filing Date:

December 13, 2011



Intellectual Property Law

**RECORDED: 02/28/2012** 

**PATENT REEL: 027778 FRAME: 0102**