

PATENT ASSIGNMENT

Electronic Version v1.1
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SUBMISSION TYPE:	NEW ASSIGNMENT						
NATURE OF CONVEYANCE:	ASSIGNMENT						
CONVEYING PARTY DATA							
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Aju Abraham</td> <td>07/23/2012</td> </tr> <tr> <td>Taylor Latham</td> <td>07/26/2012</td> </tr> </tbody> </table>		Name	Execution Date	Aju Abraham	07/23/2012	Taylor Latham	07/26/2012
Name	Execution Date						
Aju Abraham	07/23/2012						
Taylor Latham	07/26/2012						
RECEIVING PARTY DATA							
Name:	Smith International, Inc						
Street Address:	1310 Rankin Drive						
City:	Houston						
State/Country:	TEXAS						
Postal Code:	77073						
PROPERTY NUMBERS Total: 1							
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13413828</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13413828		
Property Type	Number						
Application Number:	13413828						
CORRESPONDENCE DATA							
Fax Number:	7136892219						
Phone:	719-689-6265						
Email:	lgoldsmith@slb.com						
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>							
Correspondent Name:	SCHLUMBERGER TECHNOLOGY CORPORATION						
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Address Line 2:	IP Center of Excellence						
Address Line 4:	Houston, TEXAS 77042						
ATTORNEY DOCKET NUMBER:	09-CS88-US						
NAME OF SUBMITTER:	Leslie Goldsmith						
Total Attachments: 3 source=09CS88USNP_20120730_uspto_Assignment#page1.tif source=09CS88USNP_20120730_uspto_Assignment#page2.tif source=09CS88USNP_20120730_uspto_Assignment#page3.tif							

CH \$40.00 13413828

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:

HYDRO-MECHANICAL DOWNHOLE TOOL

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, re-examinations, and extensions thereof, and all United States Letters Patent and any legal equivalent thereof in a foreign country, including the right to claim priority, 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 agree:

1. 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 Patent and any legal equivalent thereof in a foreign country, 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;
2. 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, reissue or re-examination thereof to COMPANY.

The undersigned INVENTOR(S) each hereby grants to COMPANY 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.

IN WITNESS WHEREOF, this Assignment has been executed by the undersigned individual on the date appearing by such individual's signature:

07-23-12

Date

Inventor Signature:

Aju Abraham

Print or Type Name:

Aju Abraham

Notary Public

State of:

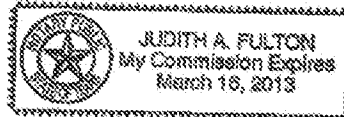
County of:

Before me personally appeared *Aju Abraham*, who acknowledged the foregoing instrument to be a free act and deed and also represented that he/she is authorized to execute this Assignment.

Dated: *07/23/2012*

Judith A. Fulton

Notary Public My Commission expires: *03/16/2013*



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.: 13/413,828
Filing Date: March 7, 2012

IN WITNESS WHEREOF, this Assignment has been executed by the undersigned individual on the date appearing by such individual's signature:

7/26/12
Date

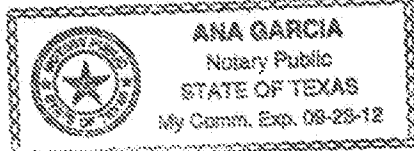
Inventor Signature: [Signature]
Print or Type Name: Taylor Latham

Notary Public

State of: Texas
County of: Muecos

Before me personally appeared Taylor Latham, who acknowledged the foregoing instrument to be a free act and deed and also represented that he/she is authorized to execute this Assignment.

Dated: 7/26/12 [Signature]
Notary Public My Commission expires: _____



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