

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>Yahua Bao</td> <td>09/25/2012</td> </tr> <tr> <td>Scott L. Horman</td> <td>10/04/2012</td> </tr> </tbody> </table>		Name	Execution Date	Yahua Bao	09/25/2012	Scott L. Horman	10/04/2012				
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Yahua Bao	09/25/2012										
Scott L. Horman	10/04/2012										
RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>Smith International, Inc</td> </tr> <tr> <td>Street Address:</td> <td>1310 Rankin Drive</td> </tr> <tr> <td>City:</td> <td>Houston</td> </tr> <tr> <td>State/Country:</td> <td>TEXAS</td> </tr> <tr> <td>Postal Code:</td> <td>77073</td> </tr> </table>		Name:	Smith International, Inc	Street Address:	1310 Rankin Drive	City:	Houston	State/Country:	TEXAS	Postal Code:	77073
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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>13592452</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13592452						
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CORRESPONDENCE DATA											
Fax Number: 7136892219 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> Phone: 719-689-6265 Email: lgoldsmith@slb.com Correspondent Name: SCHLUMBERGER TECHNOLOGY CORPORATION Address Line 1: 10001 Richmond Avenue Address Line 2: IP Center of Excellence Address Line 4: Houston, TEXAS 77042											
ATTORNEY DOCKET NUMBER:	10-ME128-US-NP										
NAME OF SUBMITTER:	Leslie Goldsmith										
Total Attachments: 3 source=10ME128USNP_20121025_Complete-Assignment#page1.tif source=10ME128USNP_20121025_Complete-Assignment#page2.tif source=10ME128USNP_20121025_Complete-Assignment#page3.tif											

CH \$40.00 13592452

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:

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 agrees:

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:

09/25/2012

Date

Inventor Signature:

Print or Type Name:

Yabua Bao

Yabua Bao

Notary Public

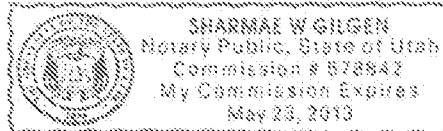
State of: Utah

County of: Utah

Before me personally appeared Yabua Bao, 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: 25 Sept. 2012

Sharmee W. Gilgen
Notary Public My Commission expires: May 23, 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.: 13/592,452
Filing Date: August 23, 2012

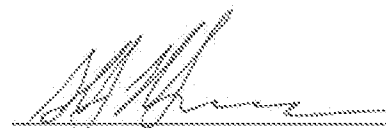
IN WITNESS WHEREOF, this Assignment has been executed by the undersigned individual on the date appearing by such individual's signature:

10/4/12

Date

Inventor Signature:

Print or Type Name:



Scott Horman

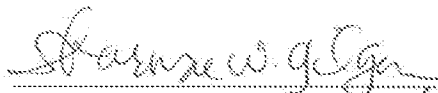
Notary Public

State of: Utah

County of: Utah

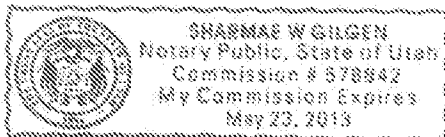
Before me personally appeared Scott Horman, who acknowledged the foregoing instrument to be a free act and deed and also represented that he/she is authorized to execute this Assignment.

Dated: Oct. 4, 2012



Notary Public

My Commission expires: May 23, 2013



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Assignment - Worldwide
10-ME128

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