

PATENT ASSIGNMENT

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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>Andrew G. Brooks</td> <td>05/31/2012</td> </tr> <tr> <td>Junichi Sugiura</td> <td>05/24/2012</td> </tr> </tbody> </table>		Name	Execution Date	Andrew G. Brooks	05/31/2012	Junichi Sugiura	05/24/2012				
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RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>Smith International Inc.</td> </tr> <tr> <td>Street Address:</td> <td>1310 Rankin Rd.</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 Rd.	City:	HOUSTON	State/Country:	TEXAS	Postal Code:	77073
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CORRESPONDENCE DATA											
<p>Fax Number: (713)689-2219 Phone: 281-233-5877 Email: kmarquez@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></p> <p>Correspondent Name: SMITH INTERNATIONAL INC. Patent Services Address Line 1: 10001 Richmond Avenue Address Line 2: IP Administration Center of Excellence Address Line 4: HOUSTON, TEXAS 77042</p>											
ATTORNEY DOCKET NUMBER:	11-PAT98-US-NP										
NAME OF SUBMITTER:	Karla P. Marquez										
<p>Total Attachments: 3 source=11-PAT98-US-NP_20120626_Assignment#page1.tif source=11-PAT98-US-NP_20120626_Assignment#page2.tif source=11-PAT98-US-NP_20120626_Assignment#page3.tif</p>											

CH \$40.00 13323116

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:

Dynamic Borehole Azimuth Measurements

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:

May 31, 2012
Date

Inventor Signature: ALP
Print or Type Name: Andrew G. Brooks

Jacob Egner
Witness
8602 Timbercraft Dr
Houston, TX 77095

[Signature]
Witness
10726 Mullins
Houston TX 77096

Post Office Address

Post Office Address

Notary Public

State of:

County of:

Before me personally appeared _____, 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: _____

Notary Public My Commission expires: _____

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.: 13/323116
Filing Date: December 12, 2011

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

24 May 2012

Date

Inventor Signature: [Signature]

Print or Type Name:

Junichi Sugiura

Witness

CAROLE DIXON

10 ROSEBAY GDNS

CHELTENHAM GLS18LW

[Signature]

Post Office Address

Witness

ELLIE FEARON

66 BROOKLYN GARDENS

CHELTENHAM GLS18LW

[Signature]

Post Office Address

Notary Public

State of:

County of:

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