

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Libai Xu	05/05/2010
Kevin McKinny	05/05/2010
Cornelis Huiszoon	05/05/2010
Christian Stoller	05/03/2011
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:	13100683
CORRESPONDENCE DATA	
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Address Line 1:	1310 Rankin Rd.
Address Line 4:	HOUSTON, TEXAS 77073
ATTORNEY DOCKET NUMBER:	09-PAT116(1)
NAME OF SUBMITTER:	Jessica Greeney, IP Paralegal
Total Attachments: 3 source=B-Assignment#page1.tif source=B-Assignment#page2.tif source=B-Assignment#page3.tif	

CH \$40.00 13100683

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PATENT
 REEL: 026431 FRAME: 0475

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:

METHOD AND APPARATUS FOR NEUTRON LOGGING USING A POSITION SENSITIVE NEUTRON DETECTOR

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 each of the undersigned individuals on the date appearing by such individuals' signature:

05/05/2010

Date

1st Inventor Signature: [Signature]

Print or Type Name: Libai Xu

05/05/2010

Date

2nd Inventor Signature: [Signature]

Print or Type Name: Kevin McKinny

5/5/2010

Date

3rd Inventor Signature: [Signature]

Print or Type Name: Cornelis Huiszoon

Notary Public

State of: TEXAS
County of: HARRIS

Before me personally appeared: Libai Xu, Kevin McKinny, Cornelis Huiszoon

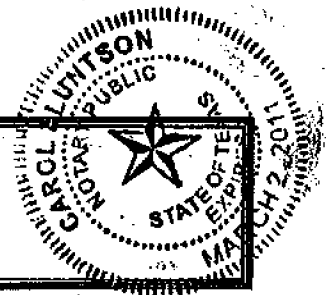
Each of whom acknowledged the foregoing instrument to be a free act and deed and also represented that he/she is authorized to execute this Assignment.

Dated: 5/5/10

[Signature]
Notary Public My Commission expires: 3/2/11

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.: 13/100,683
Filing Date: May 4, 2011



ASSIGNMENT-WORLDWIDE

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09-PAT116

PATENT
REEL: 026431 FRAME: 0477

IN WITNESS WHEREOF, this Assignment has been executed by each of the undersigned individuals on the date appearing by such individuals' signature:

3-May 2011
Date
Inventor Signature: [Signature]
Print or Type Name: Christian Stoller

Notary Public

State of: New Jersey
County of: Monmouth

Before me personally appeared: Christian Stoller

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.

Dated: May 3, 2011

Margaret Spells
Notary Public My Commission expires: April 17, 2015

Margaret Spells
I.D. 2248953
Notary Public of New Jersey
My Commission Expires April 17, 2015

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.: 13/100,683
Filing Date: May 4, 2011