

# PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
Name		Execution Date
Brian Cruickshank		05/16/2006
RECEIVING PARTY DATA		
Name:	SMITH INTERNATIONAL, INC.	
Street Address:	16740 Hardy Street	
City:	Houston	
State/Country:	TEXAS	
Postal Code:	77032	
PROPERTY NUMBERS Total: 1		
Property Type	Number	
Application Number:	11418578	
CORRESPONDENCE DATA		
Fax Number:	(713)228-8778	
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>		
Email:	sharris@oshaliang.com	
Correspondent Name:	Jeffrey S. Bergman	
Address Line 1:	1221 McKinney Street Suite 2800	
Address Line 4:	Houston, TEXAS 77010	
ATTORNEY DOCKET NUMBER:	5516.272001	
NAME OF SUBMITTER:	Staci V. Harris	
Total Attachments: 2 source=05516272001-ASSN#page1.tif source=05516272001-ASSN#page2.tif		

OP \$40.00 11418578

500121792

PATENT  
REEL: 017862 FRAME: 0233

## 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:

**16740 HARDY STREET, HOUSTON, TEXAS 77032**

(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:

### ORIENTATION 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, and extensions thereof, and all Letters Patent (domestic and foreign) that 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 that 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;
2. To execute all papers and documents and to perform all lawful acts that 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 that may be necessary to obtain the grant of valid and enforceable patents 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 that 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.

---

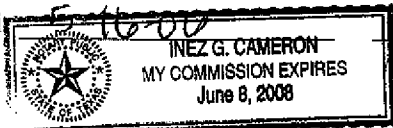
**OSHA•LIANG LLP**

**PATENT  
REEL: 017862 FRAME: 0234**

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

<u>5-16-06</u> Date	1 <sup>st</sup> Inventor Signature: <u>[Signature]</u> Print or Type Name: <u>Brian Cruickshank</u>
 Date	2 <sup>nd</sup> Inventor Signature: _____ Print or Type Name: _____
 Date	3 <sup>rd</sup> Inventor Signature: _____ Print or Type Name: _____
 Date	4 <sup>th</sup> Inventor Signature: _____ Print or Type Name: _____

This Assignment may be signed before either:  
(a) a Notary Public for one of the States of the United States, or (b) two witnesses who sign below:

<b>NOTARY PUBLIC</b>	State of <u>Texas</u> County of <u>Harris</u>
	Before me personally appeared: <u>Brian Cruickshank</u> 1 <sup>st</sup> Inventor 2 <sup>nd</sup> Inventor
	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: <u>5-16-06</u>  <u>[Signature]</u> Notary Public My commission expires: <u>6-8-08</u>
<b>WITNESSES</b>	Signature of Witness: _____ Date _____ Print or Type Name: _____
	Signature of Witness: _____ Date _____ Print or Type Name: _____

150619\_1

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.: 11/418,578  
Filing Date: May 5, 2006

ASSIGNMENT - WORLDWIDE

Page 2

OSHA•LIANG LLP

PATENT

RECORDED: 06/30/2006

REEL: 017862 FRAME: 0235