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Execution Date: August 25, 2005	Additional name(s) & Yes X No address(es) attached:		
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Dated: October 7, 2005

ignature: <u>WW. H. Stauw</u>, _{(Ava R}

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:

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;
- 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;
- 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

indivi	IN WITNESS WHE duals on the date appearing by	EOF, this Assignment has been exect such individual's signature:	uted by each of the undersigned	
	<u> </u>	1" Inventor Signature:		
	Date	2 nd Inventor Signature: Print or Type Name:		
	Date	3 rd Inventor Signature: Print or Type Name:	·	
	Date	4 th 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:				
PUBLIC	State of Texa 5 County of Harris Before me personally appeared:	Amardeep Singh	2 nd Inventor	
NOTARY PUBLIC	each of whom acknowledged the fo execute this Assignment. I pated: INEZ G. CAMERON MY COMMISSION EXPI	egoing instrument to be a free act and deed and a Notary Public My commis	Iso represented that he/she is authorized to Carnewry sion expires: 6-6-08	
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		ment is <u>not</u> filed concurrently with the pai dentifying information may be added <u>afte</u>		
	-	ntion Serial No.: 11/184,719 Filing Date: July 19, 2005		
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