## PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

## **CONVEYING PARTY DATA**

Name	Execution Date
Alexander Craig Mackay	02/14/2007
George Armando Espiritu	02/01/2007
Charles H. Dewey	02/01/2007

## **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:	11669593

#### **CORRESPONDENCE DATA**

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Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

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ATTORNEY DOCKET NUMBER: 5516.316001

NAME OF SUBMITTER: Michelle Hayden

Total Attachments: 3

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## 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:

16749 Hardy Street, Houston, Texas 77932

(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:

# DRILLING AND HOLE ENLARGEMENT DEVICE,

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:

- 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.

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	duals on the date appearing by			
141		1 <sup>st</sup> Inventor Signature:		NF 1 57
	Date	Print or Type Name:	Alexander Craig MAC	KAY
		2 <sup>nd</sup> Inventor Signature:	/	TO VOICE
	Date	Print or Type Name:	George Armando ESP	IRITU
		3 <sup>rd</sup> Inventor Signature:	of the present	
	Date	Print or Type Name:	Charles H. DEWEY	
	Date	Print or Type Name:		
	(a) a Notary Public for or	This Assignment may be see of the States of the United	gned before either: States, or (b) two witnesses wi	ıc sign below:
	1			
	State of	<del></del>	•	
12			77. 4.37. Caaree A	wanda ECDIDITTI
5	Before me personally appeared:	Alexander Craig MAG	CKAY George P	armando ESPIRITU 2 <sup>al</sup> Investor
		Charles H. DEWEY		4 <sup>h</sup> inventor
NOTARY PUBLIC	each of whom acknowledged the fe execute this Assignment.	foregoing instrument to be a fi	ee act and deed and also represe	inted that he/she is authorized to
Ž	Dated:			
L		Notary Public	My commission expir	B\$:
WITNESSES	14/02/2007 Date	Signature of Witnes Print or Type Name	1,001,000	moden SDEW.
E	14/02/2007	Signature of Witnes	11 1 10 10 10 10	INER
	Date	Print or Type Nam	E V / H. SN A	NE K
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Ī	When this Assi the followin	gnment is <u>not</u> filed concu g identifying information	rrently with the patent app may be added <u>after</u> execut	lication, ion:
	U.S. Appi	lication Serial No.: 11/6	59,593	
		Filing Date: Janu	ary 31, 2007	
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IN WITNESS WHEREOF, this Assignment has been executed by each of the undersigned

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individ	IN WITNESS WH halfs on the date appearing b	EREOF, this Assignment has been by such individual's signature:	executed by each of the undersigned
		1st Inventor Signature:	G : MACWAN
	Date	Print or Type Name: Alexande	er Craig MACKAY
	2/107	2 <sup>nd</sup> Inventor Signature:	<u> </u>
	Date	Print or Type Name: George	Armando ESPIRITU
	2/1/07	3rd Inventor Signature:	MN-
	Date	Print or Type Name: Charles	H. DEWEY
		4th Inventor Signature:	N
	Date	Print or Type Name:	
		This Assignment may be signed before one of the States of the United States, or (b)	emer: ) two witnesses who sign below:
9	State of /EXOS County of Harris		
	Before me personally appeared:	Alexander Craig MACKAY	George Armando ESPIRITU
2		1* Inventor Charles H. DEWEY	, avenue
¥	each of whom acknowledged the	Finance a foregoing instrument to be a free act and de	**Meeter and also represented that he/she is authorized to
NOTARY PUB	Dated:	or do	s/B Camein
	MY COMMISS	Notary Public Mg Notary Public Mg ISON EXPIRES 8, 2006	Ammission expires: 6-8-08
88		Signature of Witness:	
	Date	Print or Type Name:	
E		Signature of Witness:	
5	Date	Print or Type Name:	
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·	When this As	signment is <u>not</u> filed concurrently with ing identifying information may be ac	h the patent application, lded <u>after</u> execution:
1		pilcation Serial No.: 11/669,593	
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**RECORDED: 03/08/2007** 

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