

05-03-1999

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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Peter Cariveau
Robert Slaughter
Zhigang Fang

2. Name and address of receiving party(ies):

Name: SMITH INTERNATIONAL, INC.

Internal Address: _____

Additional names(s) of conveying party(ies) ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____

Street Address: 16740 Hardy StreetCity: Houston State: TX ZIP: 77032Execution Date: March 24, 1999 and April 6, 1999Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or registration numbers(s):

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No.(s)

09/236,147

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Joanthan P. OshaInternal Address: ROSENTHAL & OSHA L.L.P.Street Address: 700 Louisiana Street, Suite 4550

05/03/1999 DNGUYEN 00000003 09236147

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City: Houston State: TX ZIP: 770026. Total number of applications and patents involved: 17. Total fee (37 CFR 3.41):.....\$ 40.00☒ Enclosed - Any excess or insufficiency should be credited or debited to deposit account☐ Authorized to be charged to deposit account

8. Deposit account number:

50-0591

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Jonathan P. Osha Reg. No. 33,986

April 20, 1999

Name of Person Signing

Signature

Date

Total number of pages including cover sheet, attachments, and document: 4

PATENT
REEL: 9916 FRAME: 0739

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:

IMPROVED EARTH-BORING BITS

for which the undersigned has/have executed an application for patent in the United States of America on 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) 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, 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, or reissue thereof to COMPANY.

The undersigned INVENTOR(S) each hereby grants to the firm of ROSENTHAL & OSHA L.L.P. 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.

ROSENTHAL & OSHA L.L.P.

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

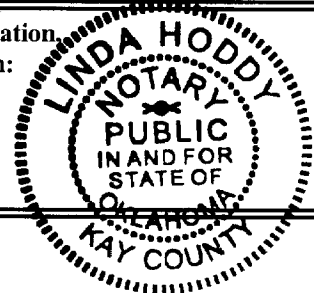
<u>4/6/99</u> Date	Signature: <u>Peter Cariveau</u> Print or Type Name: <u>Peter Cariveau</u>
<u>4/6/99</u> Date	Signature: <u>Robert N. Slaughter Jr.</u> Print or Type Name: <u>Robert Slaughter</u>
 Date	Signature: <u>[Signature]</u> <u>3/24/99</u> Print or Type Name: <u>Zhigang Fang</u>
 Date	Signature: _____ Print or Type Name: _____
 Date	Signature: _____ Print or Type Name: _____

This Assignment must be signed before a Notary Public for one of the States in the United States:

NOTARY PUBLIC	State of _____ County of _____
	Before me personally appeared: <u>Peter Cariveau</u> <u>Robert Slaughter</u> 1 st Inventor 2 nd Inventor
	<u>Zhigang Fang</u> 3 rd Inventor 4 th 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>4-6-99</u> <u>Linda Hoddy</u> Notary Public My commission expires: <u>July 30, 2001</u>

Where this Assignment is not filed concurrently with the patent application the following identifying information may be added after execution:

U.S. Application Serial No.: 09/236,147
Filing Date: January 22, 1999



ROSENTHAL & OSHA L.L.P.