

FORM PTO-1595 (Modified)
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original documents or copy thereof.

To the Honorable Commissioner of Patents and Trademarks

1. Name of conveying party(ies):

Robert H. SLAUGHTER, Jr.
Peter T. CARIVEAU
Vincent W. SHOTTON

4-16-02

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

Name: Smith International, Inc.

Address: 16740 Hardy Street

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

3. Nature of conveyance:

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

City: Houston State/Prov.: TX

Country: USA ZIP: 77032

Execution Date: 3/28/02; 3/22/02; 3/28/02

Additional name(s) & address(es) Yes No

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

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

Patent Application No. Filing date

10/075,052

02/12/2002

B. Patent No.(s)

Additional numbers

Yes No

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

Name: Richard A. Fagin

Registration No. 39,182

Address: ROSENTHAL & OSHA L.L.P.

1221 McKinney, Suite 2800

04/29/2002 TDI AZ1 00000236 10075052

01 FC:587

40.00 00

City: Houston State/Prov.: TX

Country: USA ZIP: 77010

6. Total number of applications and patents involved: **1**

7. 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.

Richard A. Fagin, Reg. No. 39,182

Name of Person Signing

Signature

April 9, 2002

Date

5

Total number of pages including cover sheet, attachments, and

Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231

PATENT
REEL: 012862 FRAME: 0065

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:

BACK REAMING 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 ROSENTHAL & OSHA L.L.P. 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.

ROSENTHAL & OSHA L.L.P.

**PATENT
REEL: 012862 FRAME: 0066**

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

3/28/02

Date

1st Inventor Signature:

Print or Type Name: Robert H. Slaughter, Jr.

Robert H. Slaughter, Jr.

2nd Inventor Signature:

Print or Type Name: ~~Peter T. Cariveau~~

3rd Inventor Signature:

Print or Type Name: Vincent W. Shotton

4th Inventor Signature:

Print or Type Name:

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

NOTARY PUBLIC

State of
County of

Before me personally appeared:

Robert H. Slaughter, Jr.

~~Peter T. Cariveau~~

1st Inventor

2nd Inventor

Vincent W. Shotton

3rd Inventor

4th 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:

3/28/02

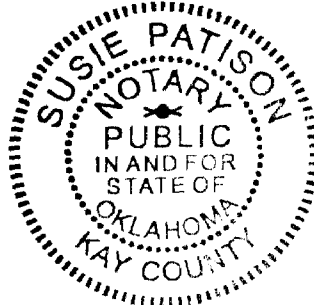
Susie Patison

Notary Public

My commission expires:

4-24-02

26808_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.: 10/075,052

Filing Date: February 12, 2002

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

Date
5/22/2002

1st Inventor Signature: _____
Print or Type Name: ~~Robert H. Slaughter, Jr.~~

Date

2nd Inventor Signature: *Peter T. Cariveau*
Print or Type Name: Peter T. Cariveau

Date

3rd Inventor Signature: _____
Print or Type Name: ~~Vincent W. Shotton~~

Date

4th Inventor Signature: _____
Print or Type Name: _____

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

NOTARY PUBLIC

State of Texas
County of Harris

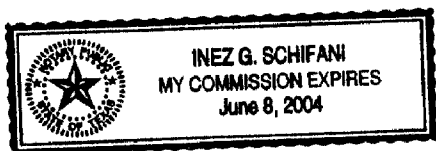
Before me personally appeared: ~~Robert H. Slaughter, Jr.~~ Peter T. Cariveau
1st Inventor 2nd Inventor

~~Vincent W. Shotton~~ _____
3rd Inventor 4th 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: 3-22-02 _____
Notary Public *Inez G. Schifani* My commission expires: 6-8-04

26808_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.: 10/075,052
Filing Date: February 12, 2002

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

Date	1 st Inventor Signature: _____
Date	Print or Type Name: <u>Robert H. Slaughter, Jr.</u>
Date	2 nd Inventor Signature: _____
Date	Print or Type Name: <u>Peter T. Cariveau</u>
Date	3 rd Inventor Signature: <u>Vince Shotton</u>
Date	Print or Type Name: <u>Vincent W. Shotton</u>
Date	4 th Inventor Signature: _____
Date	Print or Type Name: _____

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

NOTARY PUBLIC

State of _____
County of _____

Before me personally appeared: Robert H. Slaughter, Jr. Peter T. Cariveau
1st Inventor 2nd Inventor
Vincent W. Shotton _____
3rd Inventor 4th 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: 3-28-02 _____

 Notary Public My commission expires: 4-24-02



26808_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.: 10/075,052
Filing Date: February 12, 2002