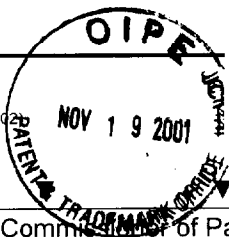


\$0

11-23-2001

Docket No.: 05516/104001

FORM PTO-1595 (Modified)  
(Rev. 03-01)  
OMB No. 0651-0027 (exp. 5/31/2002)  
POBA/REV03



101900515

EET

U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

Tab settings → → →

11-19-01

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

1. Name of conveying party(ies):

**Amardeep SINGH**

Additional names(s) of conveying party(ies)

☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment

☐ Merger

☐ Security Agreement

☐ Change of Name

☐ Other

Execution Date: **08/21/2001**

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

Name: **SMITH INTERNATIONAL, INC.**

Address: **16740 Hardy St.**

City: **Houston**

State/Prov.: **TX**

Country: **USA**

ZIP: **77032**

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

B. Patent No.(s)

**09/931,467**

**August 16, 2001**

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.**

**700 Louisiana, Suite 4550**

City: **Houston**

State/Prov.: **TX**

Country: **USA**

ZIP: **77002**

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**

(Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

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**

Name of Person Signing

Signature

Date

**4**

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: 012311 FRAME: 0833**

11/21/2001 11:21:46 AM 0000035 09/31/467 40.00 UP 01 FC:501

## **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:

### **CUTTING STRUCTURE FOR ROLLER CONE DRILL BITS,**

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: 012311 FRAME: 0834**

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

8/21/01

Date

1<sup>st</sup> Inventor Signature: Amardeep Singh  
Print or Type Name: Amardeep Singh

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 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: Amardeep Singh

1<sup>st</sup> Inventor

2<sup>nd</sup> Inventor

3<sup>rd</sup> Inventor

4<sup>th</sup> Inventor

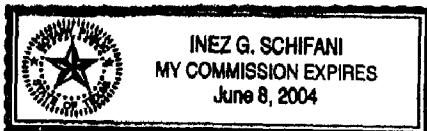
each of whom acknowledged the foregoing instrument to be a free act and deed and also represented that he/she is authorized to execute this Assignment.

Dated: 8-21-01

Inez G. Schifani  
Notary Public

My commission expires: 6-8-04

18940\_1.DOC



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.: 09/931,467

Filing Date: August 16, 2001

ASSIGNMENT - WORLDWIDE

Page 2

ROSENTHAL & OSHA L.L.P.

PATENT  
REEL: 012311 FRAME: 0835

**CERTIFICATE OF MAILING BY FIRST CLASS MAIL (37 CFR 1.8)**Applicant(s): **Amardeep SINGH**

Docket No.

**05516/104001**

Serial No.

**09/931,467**

Filing Date

**August 16, 2001**

Examiner

Group Art Unit

**3672**Invention: **DRILL BIT HAVING CUTTING STRUCTURE FOR ROLLER CONE DRILL BITS**I hereby certify that this **ASSIGNMENT***(Identify type of correspondence)*

is being deposited with the United States Postal Service as first class mail in an envelope addressed to: The

Assistant Commissioner for Patents, Washington, D.C. 20231 on

10/17/2001  
*(Date)***Anne-Marie Santiago***(Typed or Printed Name of Person Mailing Correspondence)*

A handwritten signature in cursive script, appearing to read "Anne-Marie Santiago".

*(Signature of Person Mailing Correspondence)***Note: Each paper must have its own certificate of mailing.**

P07A/REV03

**RECORDED: 11/19/2001****PATENT  
REEL: 012311 FRAME: 0836**