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U.S. DEPARTMENT OF COMMERCE
U.S. Patent and Trademark Office

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

1. Name of conveying party(ies):

Scott D. McDonough
Amardeep Singh
Daniel W. Brietzke

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

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

Execution Date:

August 17, 2004

2. Name and address of receiving party(ies)

Name: Smith International, Inc.

Internal Address: Patent Services

Street Address: 16740 Hardy Street

City: Houston State: TX Zip: 77032

Additional name(s) & address(es) attached? ☐ Yes ☒ No

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

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

A. Patent Application No.(s) 10/853,869

B. Patent No.(s) _____

Additional numbers attached? ☐ Yes ☒ No

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

Name: Y. Renee Alsandor

Internal Address: Smith International, Inc.

Street Address: 16740 Hardy Street

City: Houston State: TX Zip: 77032

8. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41).....\$ 40.00

☐ Enclosed

☒ Authorized to be charged to deposit account

8. Deposit account number:

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192745

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9. Signature.

Y. Renee Alsandor

Name of Person Signing

[Signature]
Signature

8/18/04
Date

Total number of pages including cover sheet, attachments, and documents: 3

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

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:

METHODS FOR EVALUATING CUTTING ARRANGEMENTS FOR DRILL BITS AND THEIR APPLICATION TO ROLLER CONE DRILL BIT DESIGNS

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, re-examinations, and extensions thereof, and all United States Letters Patent and any legal equivalent thereof in a foreign country, including the right to claim priority, 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, reissue or re-examination thereof to COMPANY.

The undersigned INVENTOR(S) each hereby grants to the firm of SMITH INTERNATIONAL, INC. 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.

V.P.S. FORAIS-SMITH

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

<u>8/17/04</u> Date	1 st Inventor Signature: <u>[Signature]</u> Print or Type Name: <u>Scott D. McDonough</u>
<u>8/17/04</u> Date	2 nd Inventor Signature: <u>[Signature]</u> Print or Type Name: <u>Amardeep Singh</u>
<u>8/17/04</u> Date	3 rd Inventor Signature: <u>[Signature]</u> Print or Type Name: <u>Daniel W. Brietzke</u>
<u> </u> Date	4 th Inventor Signature: <u> </u> Print or Type Name: <u> </u>

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

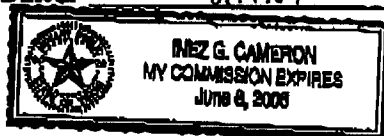
Notary Public

State of: Texas
County of: Harris

Before me personally appeared: Scott D. McDonough Amardeep Singh
1st Inventor 2nd Inventor
Daniel W. Brietzke
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: 8/17/04



[Signature]
Notary Public My Commission expires: 6-8-08

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.: 10/853,369
Filing Date: May 26, 2004

ASSIGNMENT-WORLDWIDE

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