

10-13-2005



Form PTO-1595 (Rev. 03/01) OMB No. 0651-0027 (exp. 5/31/2002)

103098687 PATENTS ONLY

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): Madapusi K. Keshavan (09/01/2005) and Anthony Griffo (09/01/2005) Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies) Name: Smith International, Inc. Internal Address: Street Address: 16740 Hardy Street City: Houston State: Texas Zip: 77032 Additional name(s) & address(es) attached: Yes No

3. Nature of Conveyance: X Assignment Merger Security Agreement Change of Name Other Execution Date: in parentheses after inventor name

4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the new application is: A. Patent Application No.(s): 11/189,425 B. Patent No.(s): Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed: Name: Jonathan P. Osha OSHA · LIANG LLP Internal Address: Atty. Dkt.: 05516/247001 Street Address: 1221 McKinney St., Suite 2800 City: Houston State: TX Zip: 77010

6. 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 X Authorized to be charged to credit card (Form 2038 enclosed) 8. Deposit account number: (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. Jeffrey S. Bergman, Reg. No. 45,925 Name of Person Signing Signature Date 10/12/2005 LMUELLER 00000114 11/09425 October 6, 2005 FC:8021 40.00 DP Total number of pages including cover sheet, attachments, and documents: 4

I hereby certify that this correspondence is being deposited with the U.S. Postal Service as Express Mail, Airbill No. EV707248533US, in an envelope addressed to: MS Assignment Recordation Services, Director of the US Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450, on the date shown below. Dated: October 6, 2005 Signature: Staci V. Harris (Staci V. Harris)

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:

THERMALLY STABLE DIAMOND CUTTING ELEMENTS IN 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 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.

OSHA • LIANG LLP

**PATENT
REEL: 017063 FRAME: 0423**

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

9/1/05

Date

1st Inventor Signature:

Print or Type Name: Madapusi K. Keshavan

Madapusi K. Keshavan

9/1/05

Date

2nd Inventor Signature:

Print or Type Name: Anthony Griffo

Anthony Griffo

Date

3rd Inventor Signature:

Print or Type Name:

Date

4th Inventor Signature:

Print or Type Name:

This Assignment may be signed before either:
(a) a Notary Public for one of the States of the United States, or (b) two witnesses who sign below:

NOTARY PUBLIC

State of Texas
County of Harris

Before me personally appeared:

Madapusi K. Keshavan

Anthony Griffo

1st Inventor

2nd Inventor

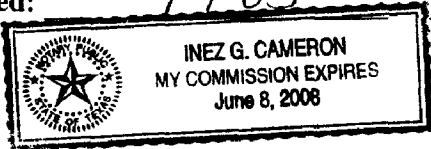
3rd Inventor

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:

9-1-05



Notary Public

Inez G. Cameron

My commission expires:

6-8-08

WITNESSES

Signature of Witness:

Date

Print or Type Name:

Signature of Witness:

Date

Print or Type Name:

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.: 11/189,425

Filing Date: July 26, 2005