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05-03-1999



Attorney Docket No. 1030-15500
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ET U. S. DEPARTMENT OF COMMERCE

FORM PTO-1595
(Rev. 6-93) Patent and Trademark Office
OMB No. 0651-0011 (exp. 4/94)

101027750

PATENTS ONLY

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

1. Name of conveying parties(ies):

ZHOU YONG and S. J. HUANG

Additional name(s) of conveying party(ies):

Attached? Yes No

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

SMITH INTERNATIONAL, INC.
16740 Hardy Street
Houston, Texas 77032

Additional name(s) & address(es)

Attached? Yes No

U.S. PTO
09/29/99
04/16/99

3. Nature of conveyance:

 Assignment Merger
 Security Agreement Change of Name
 Other _____

Execution Date: April 16, 1999

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 : April 16, 1999

A. Patent Application No.(s).
09/293372
Additional numbers attached? Yes No

B. Patent No.(s).

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

MARCELLA D. WATKINS
Conley, Rose & Tayon, P.C.
P. O. Box 3267
Houston, Texas 77253-3267

6. Total number of application 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: 03-2769

(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 if a true copy of the original document

Marcella D. Watkins
Name of Person Signing

Signature

April 16 1999
Date

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

04/28/1999 SCARNICH 00000036 09293372
02 FC:581 40.00 DP

PATENT
REEL: 9916 FRAME: 0415

ASSIGNMENT

IN CONSIDERATION OF TEN DOLLARS (\$10.00) cash in hand paid to us by SMITH INTERNATIONAL, INC. the receipt and sufficiency of which are hereby acknowledged, we, ZHOU YONG and S. J. HUANG ("ASSIGNORS"), having made an invention in **DRILL BIT INSERTS WITH ZONE OF COMPRESSIVE RESIDUAL STRESS**, while in the employ either as an employee or consultant of SMITH INTERNATIONAL, INC. a corporation organized under the laws of the State of Delaware, doing business at 16740 Hardy Street, Houston, Texas 77032 (sometimes hereinafter called "ASSIGNEE"), do hereby ASSIGN, SELL and CONVEY to said SMITH INTERNATIONAL, its successors and assigns, the entire right, title and interest throughout the world in and to:

1. Said invention in **DRILL BIT INSERTS WITH ZONE OF COMPRESSIVE RESIDUAL STRESS**;
2. United States of America patent application on said invention, Attorney's File No. 1030-15500, executed by us concurrently herewith, entitled **DRILL BIT INSERTS WITH ZONE OF COMPRESSIVE RESIDUAL STRESS**;
3. All applications for patent or like protection on said invention that have now been or may in the future be made by us or our legal representatives, including any continuation, continuation-in-part and any other utility applications that may be based on this invention, whether in the United States of America or any other place anywhere in the world;
4. All patents and like protection that have now been or may in the future be granted on said invention to us or our legal representatives, whether in the United States of America or in any other country or place anywhere in the world;
5. All substitutions for and divisions, continuations, continuations-in-part, renewals, reissues, extensions, and the like of said applications

and patents and like grants, including without limitation, those obtained or permissible under past, present and future laws and statutes;

- 6. All rights of action on account of past, present and future unauthorized use of said invention and for infringement of said patents and like protection;
- 7. The right in ASSIGNEE to file in its name applications for patents and like protection for said invention in any country or countries foreign to the United States; and
- 8. All international rights of priority associated with said invention, applications, patents and like protection;

and we covenant that we, and our heirs, legal representatives, assigns, administrators, and executors, will, at the expense of ASSIGNEE, its successors and assigns, execute all papers and perform such other acts as may be reasonably necessary to give ASSIGNEE, its successors and assigns, the full benefit of this Assignment.

EXECUTED in Houston, Texas on the date indicated below, opposite our signatures.

ASSIGNORS

Date: 04-16-99

Zhou Yong
ZHOU YONG

Date: 04-16-99

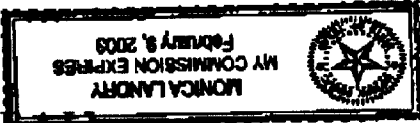
S. J. Huang
S. J. HUANG

THE STATE OF TEXAS §
 §
COUNTY OF HARRIS §

BEFORE ME, the undersigned authority, on this day personally appeared ZHOU YONG,

known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this the 16 day of April, 1999.



Monica Landry
Notary Public in and for
the State of TEXAS

My Commission Expires:

2/9/03

THE STATE OF TEXAS §
§
COUNTY OF HARRIS §

BEFORE ME, the undersigned authority, on this day personally appeared S. J. HUANG, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this the 16 day of April, 1999.



Monica Landry
Notary Public in and for
the State of TEXAS

My Commission Expires:

2/9/03

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