

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT										
NATURE OF CONVEYANCE:	Corrective Assignment to correct the Third Assignor's name on document previously recorded on Reel 016878 Frame 0820. Assignor(s) hereby confirms the Assignment of Assignor's Interest.										
CONVEYING PARTY DATA											
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Zhou Yong</td><td>07/26/2005</td></tr><tr><td>Jiaqing Yu</td><td>07/22/2005</td></tr><tr><td>Chris A. Tucker</td><td>07/14/2005</td></tr></tbody></table>		Name	Execution Date	Zhou Yong	07/26/2005	Jiaqing Yu	07/22/2005	Chris A. Tucker	07/14/2005		
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Zhou Yong	07/26/2005										
Jiaqing Yu	07/22/2005										
Chris A. Tucker	07/14/2005										
RECEIVING PARTY DATA											
<table border="1"><tr><td>Name:</td><td>Smith International, Inc.</td></tr><tr><td>Street Address:</td><td>16740 Hardy Street</td></tr><tr><td>City:</td><td>Houston</td></tr><tr><td>State/Country:</td><td>TEXAS</td></tr><tr><td>Postal Code:</td><td>77032</td></tr></table>		Name:	Smith International, Inc.	Street Address:	16740 Hardy Street	City:	Houston	State/Country:	TEXAS	Postal Code:	77032
Name:	Smith International, Inc.										
Street Address:	16740 Hardy Street										
City:	Houston										
State/Country:	TEXAS										
Postal Code:	77032										
PROPERTY NUMBERS Total: 1											
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>11157656</td></tr></tbody></table>		Property Type	Number	Application Number:	11157656						
Property Type	Number										
Application Number:	11157656										
CORRESPONDENCE DATA											
Fax Number: (713)238-8008 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
Phone: (713) 238-8000											
Email: Mcrabtree@conleyrose.com											
Correspondent Name: Gregory L. Maag											
Address Line 1: P. O. Box 3267											
Address Line 4: Houston, TEXAS 77253-3267											
ATTORNEY DOCKET NUMBER:	1030-27300 TJF										
NAME OF SUBMITTER:	Gregory L. Maag										
Total Attachments: 8											

CH \$40.00 11157656

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PATENT
REEL: 018705 FRAME: 0672

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08-16-2005

Attorney Docket No. 1030-27300



FORM PTO-1595
(Rev. 06/04) Patent and Trademark Office
OMB No. 0651-0027 (exp. 6/30/2005)

RECOI

103061877
PATENT

U. S. DEPARTMENT OF COMMERCE

To the Director of the U. S. Patent and Trademark Office. Please record the attached documents or the new address(es) below.

1. Name of conveying parties(ies)/Execution Date(s):

Zhou Yong; Jiaqing Yu and Chris A. Tucker

Execution Date(s): 1. July 26, 2005; 2. July 22, 2005;
3. July 14, 2005Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Government Interest Assignment
☐ Executive Order 9424, Confirmatory License
☐ Other _____

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

SMITH INTERNATIONAL, INC.
16730 Hardy Street
Houston, Texas 77032Additional name(s) & address(es) attached? ☐ Yes ☒ No4. Application number(s) or patent number(s): ☐ This document is being filed together with a new application.

A. Patent Application No.(s)

11/157,656, filed June 21, 2005

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Gregory L. Maag
CONLEY ROSE, P.C.
P. O. Box 3267
Houston, Texas 77253-3267
Phone No. (713) 238-8000
Fax Number: (713) 238-8008
Email Address: gmaag@conleyrose.com

6. Total number of applications and patents involved: 1

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

- ☐ Authorized to be charged by credit card
☒ Authorized to be charged to deposit account
☐ Enclosed
☐ None required (government interest not affecting title)

8. Payment Information

a. Credit Card Last 4 Numbers _____

Expiration Date _____

b. Deposit Account Number: 03-2769

Authorized User Name _____

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

9. Signature: _____

Signature

Gregory L. Maag

Name of Person Signing

August 8, 2005

Date

Total number of pages including cover sheet, attachments, and documents 6

08/12/2005 6TON11 00000119 032769 11157656

01 FC:8021

40.00 DA

Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to:
 Mail Stop Assignment Recordation Services, Director of the USPTO, P. O. Box 1450, Alexandria, VA, 22313-1450

PATENT
 REEL: 018705 FRAME: 0674

ASSIGNMENT

IN CONSIDERATION OF TEN DOLLARS (\$10.00) cash in hand paid to us by SMITH INTERNATIONAL, INC., and other valuable consideration, the receipt and sufficiency of which are hereby acknowledged, we, ZHOU YONG, JIAQING YU and CHRIS A. TUCKER ("ASSIGNORS"), having made an invention in **DRILL BIT AND INSERT HAVING BLADED INTERFACE BETWEEN SUBSTRATE AND COATING**, while in the employ either as an employee or consultant of **SMITH INTERNATIONAL, INC.**, a corporation organized and existing 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 ASSIGNEE, its successors and assigns, the entire right, title and interest throughout the world in and to:

1. Said invention in **DRILL BIT AND INSERT HAVING BLADED INTERFACE BETWEEN SUBSTRATE AND COATING**;
2. United States of America patent application on said invention, Serial No. 11/157,656, filed June 21, 2005, Attorney's File No. 1030-27300, entitled **DRILL BIT AND INSERT HAVING BLADED INTERFACE BETWEEN SUBSTRATE AND COATING**;
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 below, opposite our signatures.

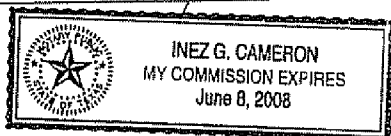
ASSIGNOR
Date: 7/26/05
Name: Zhou Yong

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 26th day of July, 2005.

[S E A L]



Inez G. Cameron
Notary Public in and for
the State of Texas

My Commission Expires:

6-8-08

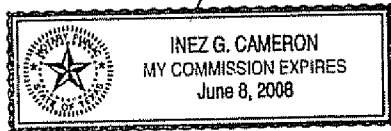
ASSIGNOR
Date: 7/22/05
Name: Jiaqing Yu

THE STATE OF Texas §
COUNTY OF Harris §

BEFORE ME, the undersigned authority, on this day personally appeared Jiaqing Yu, 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 22nd day of JULY, 2005.

[SEAL]



Inez G. Cameron
Notary Public in and for
the State of Texas

My Commission Expires:

6-8-08

ASSIGNOR

Date: _____

Name: Chris A. Tucker

THE STATE OF _____ §
COUNTY OF _____ §

BEFORE ME, the undersigned authority, on this day personally appeared Chris A. Tucker, 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 _____ day of _____, 2005.

[SEAL]

Notary Public in and for
the State of _____

My Commission Expires:

ASSIGNOR

Date: _____

Name: Jiaqing Yu

THE STATE OF _____ §

COUNTY OF _____ §

BEFORE ME, the undersigned authority, on this day personally appeared Jiaqing Yu, 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 _____ day of _____, 2005.

[S E A L]

Notary Public in and for
the State of _____

My Commission Expires:

ASSIGNOR

Date: July 14, 2005

Chris A. Tucker
Name: Chris A. Tucker

THE STATE OF Utah §

COUNTY OF Utah §

BEFORE ME, the undersigned authority, on this day personally appeared Chris A. Tucker, 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 14th day of
July, 2005.

[S E A L]

My Commission Expires:

May 23, 2009

Sharmae W. Gilgen
Notary Public in and for
the State of Utah

