

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5838951

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
YOUHE ZHANG	06/20/2018
HUIMIN SONG	06/28/2018
JAN STEFAN MORLEY	06/29/2018
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	SMITH INTERNATIONAL, INC.
<b>Street Address:</b>	1310 RANKIN ROAD
<b>City:</b>	HOUSTON
<b>State/Country:</b>	TEXAS
<b>Postal Code:</b>	77073
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16615974
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Email:</b>	kdumas-scarber@slb.com
<b>Correspondent Name:</b>	KRISTINE DUMAS-SCARBER
<b>Address Line 1:</b>	10001 RICHMOND AVENUE
<b>Address Line 2:</b>	ROOM 4720
<b>Address Line 4:</b>	HOUSTON, TEXAS 77042
<b>ATTORNEY DOCKET NUMBER:</b>	IS17.0447-US-PCT
<b>NAME OF SUBMITTER:</b>	KRISTINE DUMAS-SCARBER
<b>SIGNATURE:</b>	/KRISTINE DUMAS-SCARBER/
<b>DATE SIGNED:</b>	11/26/2019
<b>Total Attachments: 6</b>	
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## Assignment

WHEREAS, the undersigned inventors hereinafter referred to as the "Inventors," each said Inventor being listed below:

**Youhe Zhang**, a citizen of the United States of America;

**Huimin Song**, a citizen of China; and

**Jan Stefan Morley**, a citizen of the United States of America;

Has/have invented certain new and useful improvements in

### **CUTTING TOOL WITH PRE-FORMED HARDFACING SEGMENTS**

as described and set forth in an application identified as International Patent Application No. **PCT/US2018/033770**, (Docket No. **IS17.0447-WO-PCT**) filed **May 22, 2018**. **This assignment is effective as of May 22, 2018.**

AND WHEREAS, the "**COMPANIES**", listed in **Schedule A**, are desirous of acquiring or confirming their acquisition of the entire right, title and interest in and to said invention, inventions or improvements, and in and to said application, and in and to any and all patents, both of the United States and of all foreign countries, that may be obtained therefore **as outlined in Schedule A**;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, BE IT KNOWN, that the undersigned Inventors, for good and valuable considerations, the receipt and sufficiency of which hereby acknowledge, have sold, assigned, transferred and conveyed, and by this assignment do sell, assign, transfer and convey, unto said **COMPANIES**, their successors and assigns, the entire right, title and interest throughout the world, in and to the above-described invention, inventions or improvements described or set forth in said application, in any form or embodiment thereof, and in and to said application, and in and to any applications filed in any foreign country based thereon, including the right to file foreign applications under the provisions of any convention or treaty; and in and to any confirmation, divisional, continuation, continuation-in-part, or substitute application which may be filed on said invention, inventions or improvements in the United States or in any foreign country; and in and to any and all patents, certificates, utility models, reissues, extensions, additions or confirmations thereof which may be granted in the United States or in any foreign country upon said invention, inventions or improvements,

TO HAVE AND TO HOLD the same to the full end of the term or terms for which any and all such United States and foreign patents and grants may be issued on said invention, inventions or improvements.

AND said Inventors do hereby authorize and request the issuing authority to issue any and all of said United States and foreign patents on said application or applications to said **COMPANIES**,


their successors and assigns, as the assignee of the entire right, title and interest in and to the same, for the sole use and benefit of said **COMPANIES**, their successors and assigns.

AND said Inventors do hereby covenant and warrant that said Inventors have full right to convey the entire right, title and interest herein assigned free and clear of all licenses, encumbrances and liens whatsoever, and that no said Inventors has executed and will execute any instruments in conflict herewith.

AND said Inventors, for the conditions aforesaid, do hereby covenant and agree to and with the said **COMPANIES**, their successors and assigns, that each Inventor, his or her executors, administrators, or other personal representatives, shall and will do all lawful acts and things, make all rightful oaths, and make, execute and deliver any and all other instruments in writing, and any and all further applications, papers, powers, affidavits, assignments, disclaimers and other documents, which in the opinion of counsel for said **COMPANIES**, their successors and assigns, may be required or necessary in this or in any foreign country more effectually to secure to and vest in said **COMPANIES**, their successors and assigns, the entire right, title and interest in and to said invention, inventions or improvements, application or applications, patents, rights, titles, benefits, privileges, and advantages hereby sold, assigned, confirmed, transferred and conveyed.

This Agreement is entered in contemplation of and shall be construed in accordance with the laws of the State of Texas, and may not be amended or modified unless in a subsequent writing executed by the **COMPANIES**.

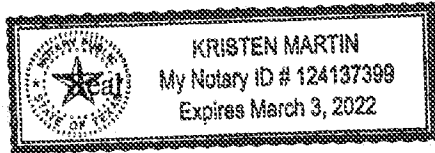
IN WITNESS WHEREOF I, **Youhe Zhang**, have hereunto set my hand and seal this 20 day of June, 2018.

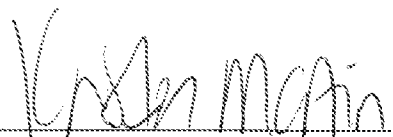
  
\_\_\_\_\_  
**Youhe Zhang**

STATE OF TEXAS

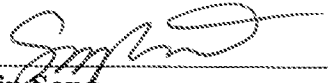
COUNTY OF HARRIS

BEFORE ME this 20<sup>th</sup> day of June, 2018, personally appeared **Youhe Zhang**, to me known to be the person who is described in and who executed the foregoing assignment instrument and acknowledged to me that he/she executed the same of his/her own free will for the purpose therein expressed.



  
\_\_\_\_\_  
Notary Public

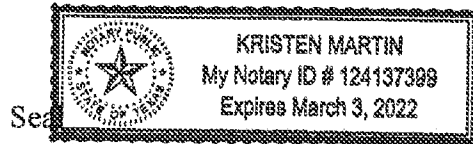
IN WITNESS WHEREOF I, **Huimin Song**, have hereunto set my hand and seal this 28 day of June, 2018.

  
\_\_\_\_\_  
**Huimin Song**

STATE OF TEXAS

COUNTY OF HARRIS

BEFORE ME this 28 day of June, 2018, personally appeared **Huimin Song**, to me known to be the person who is described in and who executed the foregoing assignment instrument and acknowledged to me that he/she executed the same of his/her own free will for the purpose therein expressed.



  
\_\_\_\_\_  
Notary Public

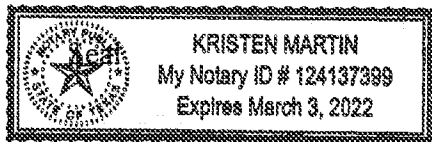
IN WITNESS WHEREOF I, **Jan Stefan Morley**, have hereunto set my hand and seal this  
29 day of JUNE, 2018.

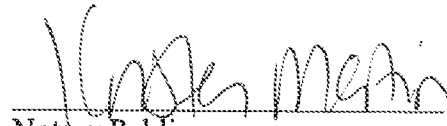
  
Jan Stefan Morley

STATE OF TEXAS

COUNTY OF HARRIS

BEFORE ME this 29<sup>th</sup> day of June, 2018, personally appeared **Jan Stefan Morley**, to me known to be the person who is described in and who executed the foregoing assignment instrument and acknowledged to me that he/she executed the same of his/her own free will for the purpose therein expressed.



  
Notary Public

**Schedule A**  
**“COMPANIES”**

**Smith International, Inc.**

Corporation of: Delaware

Located at: 1310 Rankin Road, Houston, Texas 77073, U.S.A.

Assignee for applications in: All throughout the World