

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT3913756

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
CHEN CHEN	06/04/2015
HUIMIN SONG	03/03/2015
LIANG ZHAO	05/15/2015
YOUHE ZHANG	05/07/2015
MICHAEL G. AZAR	03/03/2015
XIAOGE GAN	03/02/2015
MADAPUSI K. KESHAVAN	05/22/2015
ZHIJUN LIN	03/03/2015
BALA DURAIRAJAN	04/22/2015
MICHAEL L. STEWART	03/02/2015
RECEIVING PARTY DATA	
Name:	SMITH INTERNATIONAL, INC.
Street Address:	1310 RANKIN ROAD
City:	HOUSTON
State/Country:	TEXAS
Postal Code:	77073
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	14613144
CORRESPONDENCE DATA	
Fax Number:	
<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>	
Email:	kdumas-scarber@slb.com
Correspondent Name:	KRISTINE DUMAS-SCARBER
Address Line 1:	10001 RICHMOND AVENUE
Address Line 2:	ROOM 4720
Address Line 4:	HOUSTON, TEXAS 77042
ATTORNEY DOCKET NUMBER:	IS13.3833A-US-NP

NAME OF SUBMITTER:	KRISTINE DUMAS-SCARBER
SIGNATURE:	/KRISTINE DUMAS-SCARBER/
DATE SIGNED:	06/12/2016
Total Attachments: 11 source=IS133833AUSNP_20160612_Signed_Assignment#page1.tif source=IS133833AUSNP_20160612_Signed_Assignment#page2.tif source=IS133833AUSNP_20160612_Signed_Assignment#page3.tif source=IS133833AUSNP_20160612_Signed_Assignment#page4.tif source=IS133833AUSNP_20160612_Signed_Assignment#page5.tif source=IS133833AUSNP_20160612_Signed_Assignment#page6.tif source=IS133833AUSNP_20160612_Signed_Assignment#page7.tif source=IS133833AUSNP_20160612_Signed_Assignment#page8.tif source=IS133833AUSNP_20160612_Signed_Assignment#page9.tif source=IS133833AUSNP_20160612_Signed_Assignment#page10.tif source=IS133833AUSNP_20160612_Signed_Assignment#page11.tif	

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:

**1310 Rankin Rd.
Houston, Texas 77073**

(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:

CUTTING ELEMENTS HAVING NON-PLANAR SURFACES AND DOWNHOLE CUTTING TOOLS USING SUCH CUTTING ELEMENTS

for which the undersigned is/are going to file or has/have filed an application for patent in the United States of America, 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 Patent and any legal equivalent thereof in a foreign country, 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 COMPANY 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.

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

06/04/2015

Date

Inventor Signature:

Chen Chen

Print or Type Name:

Chen Chen

Notary Public

State of: *Connecticut*
County of: *New Haven*

Before me personally appeared Chen Chen, who acknowledged the foregoing instrument to be a free act and deed and also represented that he/she is authorized to execute this Assignment.

Dated: *June 4, 2015*

Lavanh Bounnayang
Notary Public

My Commission expires: *April 30, 2018*

LAVANH BOUNNAYONG
Notary Public
Connecticut
My Commission Expires Apr 30, 2018

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.: 14/613,144
Filing Date: February 3, 2015

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

3/3/2015
Date

Inventor Signature: [Signature]
Print or Type Name: Huimin Song

Notary Public

State of: Texas
County of: Harris

Before me personally appeared Huimin Song, who acknowledged the foregoing instrument to be a free act and deed and also represented that he/she is authorized to execute this Assignment.

Dated: 3/3/2015 Kristen Martin
Notary Public My Commission expires: March 3, 2018



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.: 14/613,144
Filing Date: February 3, 2015

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

5/15/2015
Date

Inventor Signature: [Signature]
Print or Type Name: **Liang Zhao**

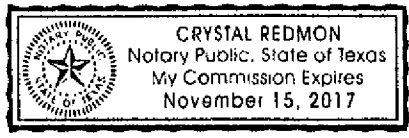
Notary Public

State of: TEXAS
County of: Harris

Before me personally appeared Liang Zhao, who acknowledged the foregoing instrument to be a free act and deed and also represented that he/she is authorized to execute this Assignment.

Dated: 5/15/2015

[Signature]
Notary Public My Commission expires: 11/15/17



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.: 14/613,144
Filing Date: February 3, 2015

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

5/7/15
Date

Inventor Signature: [Signature]
Print or Type Name: Youhe Zhang

Notary Public

State of: Texas
County of: Harris

Before me personally appeared Youhe Zhang, who acknowledged the foregoing instrument to be a free act and deed and also represented that he/she is authorized to execute this Assignment.

Dated: 6/7/15

Kristen Martin
Notary Public My Commission expires: March 3, 2018



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.: 14/613,144
Filing Date: February 3, 2015

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

March 3, 2015

Date

Inventor Signature:

[Handwritten Signature]

Print or Type Name:

Michael G. Azar

Notary Public

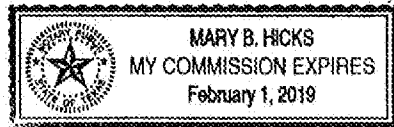
State of: Texas
County of: Harris

Before me personally appeared Michael G. Azar, who acknowledged the foregoing instrument to be a free act and deed and also represented that he/she is authorized to execute this Assignment.

Dated: March 3, 2015

Mary B. Hicks
Notary Public

My Commission expires: Feb. 1, 2019



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.: 14/613,144
Filing Date: February 3, 2015

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

03/02/15
Date

Inventor Signature: [Signature]
Print or Type Name: Xiaoge Gan

Notary Public

State of: Texas
County of: Harris

Before me personally appeared Xiaoge Gan, who acknowledged the foregoing instrument to be a free act and deed and also represented that he/she is authorized to execute this Assignment.

Dated: 3/2/2015 Kristen Martin
Notary Public My Commission expires: March 3, 2018



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.: 14/613,144
Filing Date: February 3, 2015

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

5/22/15
Date

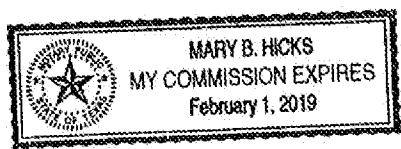
Inventor Signature: [Signature]
Print or Type Name: Madapusi K. Keshavan

Notary Public

State of: Texas
County of: Harris

Before me personally appeared Madapusi K. Keshavan, who acknowledged the foregoing instrument to be a free act and deed and also represented that he/she is authorized to execute this Assignment.

Dated: May 22, 2015 [Signature]
Notary Public My Commission expires: Feb. 1, 2015



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.: 14/613,144
Filing Date: February 3, 2015

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

3/3/2015
Date

Inventor Signature: [Signature]
Print or Type Name: Zhijun Lin

Notary Public

State of: Texas
County of: Harris

Before me personally appeared Zhijun Lin, who acknowledged the foregoing instrument to be a free act and deed and also represented that he/she is authorized to execute this Assignment.

Dated: 3/3/2015 Kristen Martin
Notary Public My Commission expires: March 3, 2018



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.: 14/613,144
Filing Date: February 3, 2015

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

04-22-2015

Date

Inventor Signature:

B. Durairajan

Print or Type Name:

Bala Durairajan

Notary Public

State of: *Texas*
County of: *Harris*

Before me personally appeared Bala Durairajan, who acknowledged the foregoing instrument to be a free act and deed and also represented that he/she is authorized to execute this Assignment.

Dated: *4-22-2015*


Kristen Martin
Notary Public My Commission expires: *MARCH 3, 2018*

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.: 14/613,144
Filing Date: February 3, 2015

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

2 March 2015
Date

Inventor Signature: *Michael L. Stewart*
Print or Type Name: Michael L. Stewart

Notary Public

State of: TEXAS
County of: Harris

Before me personally appeared Michael L. Stewart, who acknowledged the foregoing instrument to be a free act and deed and also represented that he/she is authorized to execute this Assignment.

Dated: 3/2/2015

Kristen Martin
Notary Public My Commission expires: March 3, 2018



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.: 14/613,144
Filing Date: February 3, 2015