

## PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT2797552

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
YUELIN SHEN	01/11/2007
YOUHE ZHANG	01/11/2007
MICHAEL JANSSEN	12/15/2006
<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>	13958445
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(626)577-8800
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<b>Correspondent Name:</b>	CHRISTIE, PARKER & HALE, LLP
<b>Address Line 1:</b>	P.O. BOX 29001
<b>Address Line 4:</b>	GLENDALE, CALIFORNIA 91209
<b>ATTORNEY DOCKET NUMBER:</b>	34020/27470/50806/L635
<b>NAME OF SUBMITTER:</b>	MARIAN M. LIU
<b>SIGNATURE:</b>	/MARIAN M. LIU/
<b>DATE SIGNED:</b>	04/02/2014
<b>Total Attachments: 3</b>	
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**ASSIGNMENT**

**WHEREAS, WE, Yuelin Shen, Youhe (John) Zhang, and Michael Janssen**, residing at 2110 Brundage Drive, Apt. 4616, Houston, Texas 77090; 11703 Hillsgate Court, Tomball, Texas 77377; and 19 Whispy Fern, The Woodlands, Texas 77381, respectively, have invented certain new and useful improvements disclosed in an application for United States Letters Patent entitled CUTTING ELEMENTS HAVING CUTTING EDGES WITH CONTINUOUS VARYING RADII AND BITS INCORPORATING THE SAME, and executed by us on even date herewith, together with claim to the priority of United States Provisional Application No. 60/750,457, filed December 14, 2005;

**AND WHEREAS SMITH INTERNATIONAL, INC.**, a Delaware Corporation, having a place of business at 16740 Hardy Street, Houston, Texas 77032 (hereafter, together with any successors, legal representatives or assigns thereof, called "ASSIGNEE") wants to acquire the entire right, title and interest in and to said improvements and application.

**NOW, THEREFORE**, in consideration of the sum of One Dollar (\$1.00) to us in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned, transferred and set over, and do hereby sell, assign, transfer and set over to ASSIGNEE the entire right, title and interest in and to said improvements, and said application and all divisions and continuations thereof, and all United States Letters Patents which may be granted thereon and all reissues, reexaminations and extensions thereof, including the right to sue or otherwise bring action and to collect and receive damages therefrom, for past infringement thereof, and all priority rights under all available International Agreements, Treaties and Conventions for the protection of intellectual property in its various forms in every participating country, and all applications for patents (including related rights such as utility-model registrations, inventor's certificates, and the like) heretofore or hereafter filed for said improvements in any foreign countries, and all patents (including all continuations, divisions, extensions, renewals, substitutes, and reissues thereof) granted for said improvements in any foreign countries; and we hereby authorize and request the United States Commissioner of Patents and Trademarks, and any officials of foreign countries whose duty it is to issue patents on applications as aforesaid, to issue all patents for said improvements to ASSIGNEE in accordance with the terms of this Assignment;

**AND WE HEREBY** covenant that we have full right to convey the entire interest herein assigned, and that we have not executed, and will not execute, any agreement in conflict herewith;

**AND WE HEREBY** further covenant and agree that we will communicate to ASSIGNEE any facts known to us respecting said improvements, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute and reissue applications, make all rightful oaths and generally do everything possible to aid ASSIGNEE to obtain and enforce proper patent protection for said improvements in all countries.

ASSIGNMENT

Docket No. 58730/S1117

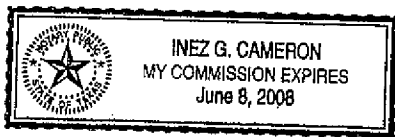
Joint

IN TESTIMONY WHEREOF, I hereunto set my hand this 11<sup>th</sup> day of January, 2007.

[Signature]  
Yuelin Shen

STATE OF Texas )  
COUNTY OF Harris )

On 1-11-07, before me Inez Cameron,  
Notary Public, personally appeared **Yuelin Shen** personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.



WITNESS my hand and official seal.

[Signature]  
Signature of Notary

\*\*\*\*\*

IN TESTIMONY WHEREOF, I hereunto set my hand this 11<sup>th</sup> day of January, 2007.

[Signature]  
Youhe (John) Zhang

STATE OF Texas )  
COUNTY OF Harris )

On 1-11-07, before me Inez G. Cameron,  
Notary Public, personally appeared **Youhe (John) Zhang** personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

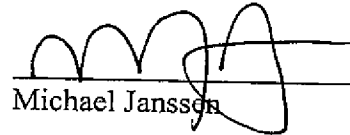
[Signature]  
Signature of Notary

ASSIGNMENT  
Docket No. 58730/S1117

Joint

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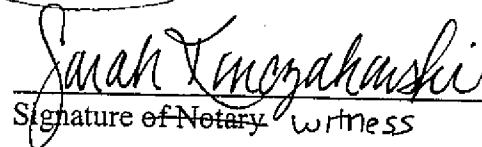
IN TESTIMONY WHEREOF, I hereunto set my hand this 15<sup>TH</sup> day of DECEMBER,  
2006.

  
\_\_\_\_\_  
Michael Janssen

STATE OF )  
COUNTY OF )

On \_\_\_\_\_, before me \_\_\_\_\_,  
Notary Public, personally appeared **Michael Janssen** personally known to me (or proved to me  
on the basis of satisfactory evidence) to be the person whose name is subscribed to the within  
instrument and acknowledged to me that he executed the same in his authorized capacity, and  
that by his signature on the instrument the person, or the entity upon behalf of which the person  
acted, executed the instrument.

WITNESS my hand and official seal.

  
\_\_\_\_\_  
Signature of Notary witness

CM/scc

SCC PAS713692.1-\*-12/8/06 8:46 AM