

**PATENT ASSIGNMENT**

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
Jun Zhang	06/10/2009
Paul Boonen	06/10/2009
Zhipeng Liu	06/09/2009
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	Smith International Inc.
<b>Street Address:</b>	1310 Rankin Rd.
<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>	12486954
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(281)233-5970
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
<b>Phone:</b>	281-233-5278
<b>Email:</b>	patentdocket@smith.com
<b>Correspondent Name:</b>	Smith International, Inc.
<b>Address Line 1:</b>	1310 Rankin Rd.
<b>Address Line 2:</b>	Patent Services
<b>Address Line 4:</b>	Houston, TEXAS 77073
<b>ATTORNEY DOCKET NUMBER:</b>	08-PAT084
<b>NAME OF SUBMITTER:</b>	Jessica Greeney, IP Administrator
Total Attachments: 3 source=D-Assignment#page1.tif	

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**PATENT  
 REEL: 023181 FRAME: 0369**

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## 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:

#### CYCLIC NOISE REMOVAL IN BOREHOLE IMAGING

for which the undersigned has/have executed an application for patent in the United States of America on or about this same day, 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 Matthew Steinheider, Reg. No. 47,968, 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 each of the undersigned individuals on the date appearing by such individual's signature:

06/10/2009  
Date

1<sup>st</sup> Inventor Signature: [Signature]  
Print or Type Name: Jun Zhang

Notary Public

State of: Texas  
County of: Harris

Before me personally appeared: Jun Zhang

whom acknowledged the foregoing instrument to be a free act and deed and also represented that he is authorized to execute this Assignment.

Dated: 6/10/09

Jessica R. Greeney  
Notary Public My Commission expires: 3-3-2013



Jun 10, 2009  
Date

2<sup>nd</sup> Inventor Signature: [Signature]  
Print or Type Name: Paul Boonen

Notary Public

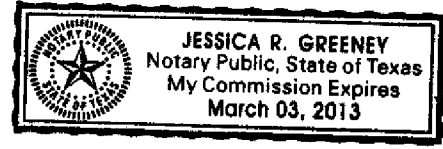
State of: Texas  
County of: Harris

Before me personally appeared: Paul Boonen

whom acknowledged the foregoing instrument to be a free act and deed and also represented that he is authorized to execute this Assignment.

Dated: 6/10/09

Jessica R. Greeney  
Notary Public My Commission expires: 3-3-2013



6/9/2009  
Date

3rd Inventor Signature: [Signature]  
Print or Type Name: Zhipeng Liu

Notary Public

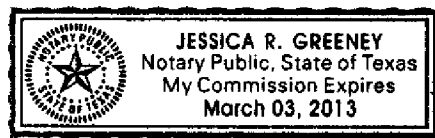
State of: Texas  
County of: Harris

Before me personally appeared:  
Zhipeng Liu

whom acknowledged the foregoing instrument to be a free act and deed and also represented that he is authorized to execute this Assignment.

Dated: 6-10-09

Jessica R. Greeff  
Notary Public My Commission expires: 3-3-2013



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.: 12/486,954  
Filing Date: 6-18-09