

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Junichi Sugiura</td> <td>10/25/2010</td> </tr> <tr> <td>Jun Zhang</td> <td>06/10/2009</td> </tr> <tr> <td>Paul Boonen</td> <td>06/10/2009</td> </tr> <tr> <td>Zhipeng Liu</td> <td>06/09/2009</td> </tr> </tbody> </table>		Name	Execution Date	Junichi Sugiura	10/25/2010	Jun Zhang	06/10/2009	Paul Boonen	06/10/2009	Zhipeng Liu	06/09/2009
Name	Execution Date										
Junichi Sugiura	10/25/2010										
Jun Zhang	06/10/2009										
Paul Boonen	06/10/2009										
Zhipeng Liu	06/09/2009										
RECEIVING PARTY DATA											
Name:	Smith International, Inc.										
Street Address:	1310 Rankin Rd.										
City:	Houston										
State/Country:	TEXAS										
Postal Code:	77073										
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>12911851</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12911851						
Property Type	Number										
Application Number:	12911851										
CORRESPONDENCE DATA											
Fax Number:	(281)233-5970										
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
Phone:	281-233-5278										
Email:	patentdocket@smith.com										
Correspondent Name:	Smith International, Inc.										
Address Line 1:	1310 Rankin Rd.										
Address Line 2:	Patent Services										
Address Line 4:	Houston, TEXAS 77073										
ATTORNEY DOCKET NUMBER:	08-PAT084(1)										
NAME OF SUBMITTER:	Jessica Greeney, IP Paralegal										
Total Attachments: 5											

CH \$40.00 12911851

501330576

**PATENT
 REEL: 025193 FRAME: 0762**

source=D-Assignment#page1.tif
source=D-Assignment#page2.tif
source=D-Assignment#page3.tif
source=C-Assignment#page1.tif
source=C-Assignment#page2.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:

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

1st 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

[Signature]
Notary Public My Commission expires: 3-3-2013



Jun 10, 2009
Date

2nd Inventor Signature: [Signature]
Print or Type Name: Paul Boonen

Notary Public

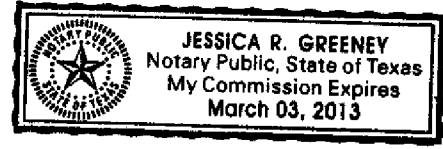
State of: Texas
County of: Harris

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

[Signature]
Notary Public My Commission expires: 3-3-2013



6/9/2009
Date

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

Notary Public

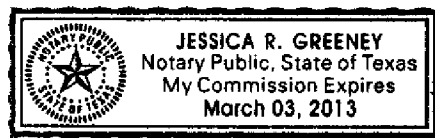
State of: Texas
County of: Harris

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

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:

IMPROVED 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:

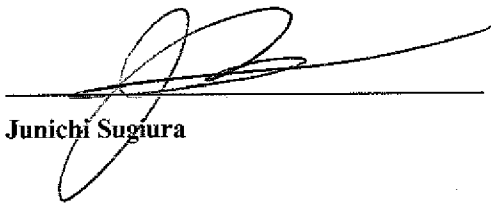
1. To sign and execute any further documents which may be necessary or desirable, lawful, and proper in connection with the prosecution of all applications for patent(s) on the INVENTION in the United States Patent and any legal equivalent thereof in a foreign country, including without limitation said 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 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.

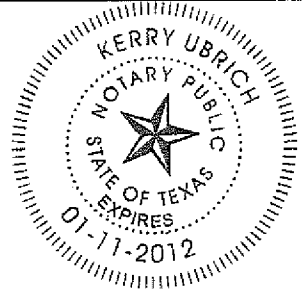
IN WITNESS WHEREOF, this Assignment has been executed by each of the undersigned individuals on the date appearing by such individuals' signature:

25 Oct 2010
Date

Inventor Signature: 
Print or Type Name: Junichi Sugiura

Notary Public

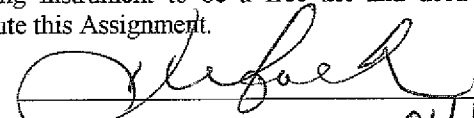
State of: Texas
County of: Harris



Before me personally appeared: Junichi Sugiura

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

Dated: 10/25/2010


Notary Public My Commission expires: 01/11/2012

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.:
Filing Date: