

PATENT ASSIGNMENT

Electronic Version v1.1

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SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>Hongren Gu</td> <td>12/03/2010</td> </tr> <tr> <td>Yiyan Chen</td> <td>01/06/2011</td> </tr> <tr> <td>Xiaowei Weng</td> <td>12/07/2010</td> </tr> </tbody> </table>		Name	Execution Date	Hongren Gu	12/03/2010	Yiyan Chen	01/06/2011	Xiaowei Weng	12/07/2010		
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CORRESPONDENCE DATA											
Fax Number: (281)285-8569 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> Phone: 281-285-4925 Email: CGercans@slb.com Correspondent Name: Rachel E. Greene Address Line 1: 110 Schlumberger Dr., MD-1 Address Line 4: Sugar Land, TEXAS 77478											
ATTORNEY DOCKET NUMBER:	56.1413										
NAME OF SUBMITTER:	Rachel E. Greene										
Total Attachments: 3 source=561413_Assignment#page1.tif source=561413_Assignment#page2.tif											

CH \$40.00 12950226

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PATENT
REEL: 025654 FRAME: 0906

ASSIGNMENT

WHEREAS, we,

1. **Hongren Gu**, a citizen of the United States, whose post office address is 16718 Colony Terrace Dr., Sugar Land, Texas 77479, USA;
2. **Yiyan Chen**, a citizen of China, whose post office address is 17430 Hollyberry Lane, Sugar Land, Texas 77479, USA; and
3. **Xiaowei Weng**, a citizen of the United States, whose post office address 22318 David's Crest Court, Katy, Texas 77450, USA;

hereinafter referred to as the "Inventors" have invented certain new and useful improvements in

METHODS TO CREATE HIGH CONDUCTIVITY FRACTURES THAT CONNECT HYDRAULIC FRACTURE NETWORKS IN A WELL

for which we have described and set forth in an application for Letters Patent of the United States of America:

☒ for which an application for a United States patent was executed on November 19, 2010 under Docket No. 56.1413 and assigned Serial No. 12/950,226.

WHEREAS, **Schlumberger Technology Corporation**, hereinafter referred to as the "said COMPANY", a corporation duly organized, incorporated and existing under the laws of the State of Texas and having a place of business at 110 Schlumberger Drive, Sugar Land, Texas 77478 is desirous of acquiring or confirming its 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;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, BE IT KNOWN, that we the Inventors, for good and valuable considerations, the receipt and sufficiency of which we hereby acknowledge, have sold, assigned, transferred and conveyed, and by this assignment do sell, assign, transfer and convey, unto said COMPANY, its successors and assigns, the entire right, title and interest throughout the world, in and to the 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 WE 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 COMPANY, its 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 COMPANY, its successors and assigns.

AND WE DO HEREBY COVENANT AND WARRANT that we 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 we have not executed and will not execute any instruments in conflict herewith.

AND WE, FOR THE CONDITIONS AFORESAID, DO HEREBY COVENANT and agree to and with the said COMPANY, its successors and assigns, that we, my executors or administrators, will 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 COMPANY, its successors and assigns, may be required or necessary in this or in any foreign country more effectually to secure to and vest in said COMPANY, its 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.

IN TESTIMONY WHEREOF, I have duly executed this Assignment on this 3 day of Dec., 2010.



Hongren Gu

STATE of TEXAS §
 §
COUNTY of FT. BEND §

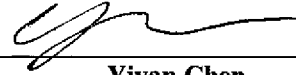
Subscribed and sworn to before me this 3rd day of December, 2010.



Notary Public in and for the State of Texas

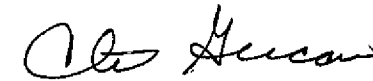


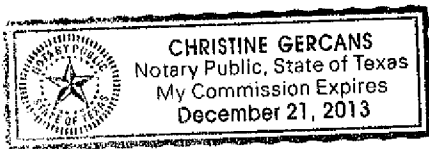
IN TESTIMONY WHEREOF, I have duly executed this Assignment on this 6th day of January, 2010.


Yiyan Chen

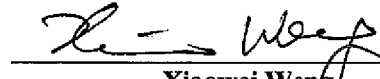
STATE of TEXAS §
 §
COUNTY of FT. BEND §

Subscribed and sworn to before me this 6th day of January, 2010.


Notary Public in and for the State of Texas



IN TESTIMONY WHEREOF, I have duly executed this Assignment on this 7th day of December, 2010.


Xiaowei Weng

STATE of TEXAS §
 §
COUNTY of FT. BEND §

Subscribed and sworn to before me this 7th day of December, 2010.


Notary Public in and for the State of Texas

