

**PATENT ASSIGNMENT**

Electronic Version v1.1  
 Stylesheet Version v1.1

<b>SUBMISSION TYPE:</b>	CORRECTIVE ASSIGNMENT				
<b>NATURE OF CONVEYANCE:</b>	Corrective Assignment to correct the Title previously recorded on Reel 018299 Frame 0243. Assignor(s) hereby confirms the Assignment.				
<b>CONVEYING PARTY DATA</b>					
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:70%;">Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Shilin Chen</td> <td>08/07/2006</td> </tr> </tbody> </table>		Name	Execution Date	Shilin Chen	08/07/2006
Name	Execution Date				
Shilin Chen	08/07/2006				
<b>RECEIVING PARTY DATA</b>					
<b>Name:</b>	Halliburton Energy Services, Inc.				
<b>Street Address:</b>	10200 Bellaire Boulevard				
<b>City:</b>	Houston				
<b>State/Country:</b>	TEXAS				
<b>Postal Code:</b>	77072-5299				
<b>PROPERTY NUMBERS Total: 1</b>					
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;">Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>11462929</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	11462929
Property Type	Number				
Application Number:	11462929				
<b>CORRESPONDENCE DATA</b>					
<b>Fax Number:</b>	(512)322-8383				
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>					
<b>Phone:</b>	5123222601				
<b>Email:</b>	apatent@bakerbotts.com				
<b>Correspondent Name:</b>	Baker Botts L.L.P.				
<b>Address Line 1:</b>	Tom Felger (074263.0379)				
<b>Address Line 2:</b>	98 San Jacinto Blvd.Ste.1500				
<b>Address Line 4:</b>	Austin, TEXAS 78701-4039				
<b>ATTORNEY DOCKET NUMBER:</b>	074263.0379				
<b>NAME OF SUBMITTER:</b>	Chris Ledel				

**CH \$40.00 11462929**

Total Attachments: 3  
 source=CorrectedAssignment#page1.tif  
 source=CorrectedAssignment#page2.tif



**ASSIGNMENT**

1 of 2

**WHEREAS**, I, the undersigned sole inventor of residence as listed, having invented certain new and useful improvements as below entitled, for which application for United States Letters Patent is made; and

**WHEREAS**, Halliburton Energy Services, Inc. (hereinafter referred to as "Assignee"), a Delaware Corporation, with an address of 10200 Bellaire Boulevard, Houston, Texas 77072-5299, desires to acquire my entire right, title and interest in and to the invention, and in and to the said application and any Letters Patent that may issue thereon;

**NOW, THEREFORE**, for and in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I assign to Assignee, all right, title and interest in and to said invention and also in U.S. Provisional Patent Application Serial No. 60/706,321 filed August 8, 2005 entitled *Methods and Systems of Rotary Drill Bit Steerability Predication, Rotary Drill Bit Design and Operation* and in U.S. Provisional Patent Application Serial No. 60/738,453 filed November 21, 2005 entitled *Methods and Systems of Rotary Drill Bit Steerability Predication, Rotary Drill Bit Design and Operation*, and in U.S. Provisional Patent Application Serial No. 60/706,323 filed August 8, 2005 entitled *Methods and Systems of Rotary Drill Bit Walk Prediction, Rotary Drill Bit Design and Operation* and U.S. Provisional Patent Application Serial No. 60/738,431 filed November 21, 2005 entitled *Methods and Systems of Rotary Drill Bit Walk Prediction, Rotary Drill Bit Design and Operation*, and in and to said regular utility U.S. Nonprovisional Application entitled *Methods and Systems for Designing and/or Selection of Drilling Equipment Based on Wellbore Drilling Simulations* and all patents which may be granted therefor, and all divisions, reissues, continuations, continuations-in-part and extensions thereof; and I hereby authorize and request the United States Commissioner of Patents and Trademarks to issue all patents for said invention, or patents resulting therefrom, insofar as my interest is concerned, to Assignee.

This assignment including said application, any and all United States and foreign patents, utility models, design registrations, inventor's certificates and other similar rights granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and I authorize the Assignee to apply in all countries in my name, or in its own name, for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and I agree for myself and my heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment; and I further agree to execute any and all powers of attorney, applications, assignments, declarations, affidavits, and any other papers in connection therewith necessary to perfect such right, title and interest in Assignee.

**ASSIGNMENT**

2 of 2

I will communicate to Assignee any facts known to me respecting any improvements; and, I will testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, continuation-in-part, reissue and substitute applications, make lawful oaths and declarations, and generally do everything possible to vest title in Assignee and to aid Assignee to obtain and enforce proper protection for said invention in all countries.

This Assignment shall be binding on the parties' successors, assigns and legal representatives.

***Titles and Serial Numbers:***

**U.S. Nonprovisional Patent Application entitled *Methods and Systems for Designing and/or Selection of Drilling Equipment Based on Wellbore Drilling Simulations***

**U.S. Provisional Patent Application Serial No. 60/706,321 filed August 8, 2005 entitled *Methods and Systems of Rotary Drill Bit Steerability Predication, Rotary Drill Bit Design and Operation***

**U.S. Provisional Patent Application Serial No. 60/738,453 filed November 21, 2005 entitled *Methods and Systems of Rotary Drill Bit Steerability Predication, Rotary Drill Bit Design and Operation***

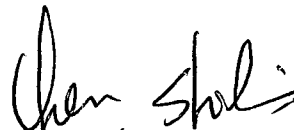
**U.S. Provisional Patent Application Serial No. 60/706,323 filed August 8, 2005 entitled *Methods and Systems of Rotary Drill Bit Walk Prediction, Rotary Drill Bit Design and Operation***

**U.S. Provisional Patent Application Serial No. 60/738,431 filed November 21, 2005 entitled *Methods and Systems of Rotary Drill Bit Walk Prediction, Rotary Drill Bit Design and Operation***

Full name of sole inventor:

Shilin Chen

Inventor's signature



Date

8-7-06

Residence (City, County, State)

The Woodlands, Montgomery County,  
Texas

Citizenship

U.S.A.

Post Office Address

34 W. Prairie Dawn Circle  
The Woodlands, Texas 77385

**PATENT ASSIGNMENT**

Electronic Version v1.1  
 Stylesheet Version v1.1

**09/25/2006  
 500155979**

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
Shilin Chen	08/07/2006
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	Halliburton Energy Services, Inc.
<b>Street Address:</b>	10200 Bellaire Boulevard
<b>City:</b>	Houston
<b>State/Country:</b>	TEXAS
<b>Postal Code:</b>	77072-5299
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	11462929
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(512)322-8383
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
<b>Phone:</b>	5123222601
<b>Email:</b>	apatent@bakerbotts.com
<b>Correspondent Name:</b>	Baker Botts L.L.P.
<b>Address Line 1:</b>	Tom Felger (074263.0379)
<b>Address Line 2:</b>	98 San Jacinto Blvd.Ste.1500
<b>Address Line 4:</b>	Austin, TEXAS 78701-4039
<b>ATTORNEY DOCKET NUMBER:</b>	074263.0379
<b>NAME OF SUBMITTER:</b>	Chris Ledel
Total Attachments: 2 source=Assignment#page1.tif source=Assignment#page2.tif	

CH \$40.00 11462929