

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>William Brian Atkins</td> <td>03/21/2013</td> </tr> <tr> <td>Jeffrey Thomas</td> <td>03/21/2013</td> </tr> </tbody> </table>	Name	Execution Date	William Brian Atkins	03/21/2013	Jeffrey Thomas	03/21/2013	
Name	Execution Date						
William Brian Atkins	03/21/2013						
Jeffrey Thomas	03/21/2013						
RECEIVING PARTY DATA							
Name:	Halliburton Energy Services, Inc.						
Street Address:	10200 Bellaire Blvd.						
City:	Houston						
State/Country:	TEXAS						
Postal Code:	77072						
PROPERTY NUMBERS Total: 1							
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>PCT Number:</td> <td>US2013032276</td> </tr> </tbody> </table>	Property Type	Number	PCT Number:	US2013032276			
Property Type	Number						
PCT Number:	US2013032276						
CORRESPONDENCE DATA							
Fax Number:	8777697945						
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>							
Phone:	(617) 542-5070						
Email:	apsi@fr.com						
Correspondent Name:	Fish & Richardson P.C.						
Address Line 1:	P. O. Box 1022						
Address Line 4:	Minneapolis, MINNESOTA 55440-1022						
ATTORNEY DOCKET NUMBER:	15834-0032WO1						
NAME OF SUBMITTER:	Joni McGuire						
Signature:	/Joni McGuire/						
Date:	05/02/2013						
Total Attachments: 3 source=158340032WO1_Assignment#page1.tif source=158340032WO1_Assignment#page2.tif source=158340032WO1_Assignment#page3.tif							

CH \$40.00 US2013032276

ASSIGNMENT

For valuable consideration, we, William Brian Atkins, of Houston, TX, Jeffrey Thomas, of Magnolia, TX, hereby assign to Halliburton Energy Services, Inc., a Delaware corporation having a place of business at Houston, Texas, and its successors and assigns (collectively hereinafter called “the Assignee”), the entire right, title and interest throughout the world in the inventions and improvements which are subject of a PCT application entitled DIRECTIONAL SOLIDIFICATION OF POLYCRYSTALLINE DIAMOND COMPACT (PDC) DRILL BITS, filed March 15, 2013, and assigned PCT Serial Number PCT/US2013/032276, this assignment including said application, any and all United States and foreign applications and patents, utility models, and design registrations for any of said inventions or improvements; and the right to claim priority based on the filing date of said application under all treaties; and we hereby authorize the Assignee to apply in all countries in our 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 we agree for ourselves and our respective 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.



William Brian Atkins

DATE: 21 MAR 2013

STATE OF TEXAS §

 §

COUNTY OF _____ §

On the _____ day of _____, _____, before me, the undersigned notary public, personally appeared _____, known to me to be the person whose name is subscribed on the foregoing instrument.

Notary Public, State of Texas

 DATE: 3/21/13
Jeffrey Thomas

STATE OF TEXAS §
 §
COUNTY OF _____ §

On the _____ day of _____, _____, before me, the undersigned notary public, personally appeared _____, known to me to be the person whose name is subscribed on the foregoing instrument.

Notary Public, State of Texas

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