

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT3877152

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
SETH GARRETT ANDERLE	01/06/2014
ROBERT W. ARFELE	01/06/2014
<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
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15037273
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(512)322-8388
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Phone:</b>	512-322-2500
<b>Email:</b>	crystle.garbade@bakerbotts.com
<b>Correspondent Name:</b>	BAKER BOTTS L.L.P.
<b>Address Line 1:</b>	1500 SAN JACINTO CENTER
<b>Address Line 2:</b>	98 SAN JACINTO BLVD
<b>Address Line 4:</b>	AUSTIN, TEXAS 78701-4039
<b>ATTORNEY DOCKET NUMBER:</b>	074263.1352
<b>NAME OF SUBMITTER:</b>	CRYSTLE GARBADE
<b>SIGNATURE:</b>	/Crystle Garbade/
<b>DATE SIGNED:</b>	05/17/2016
<b>Total Attachments: 4</b>	
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source=074263-1352-Assignment#page4.tif	

## ASSIGNMENT

Whereas, I/We, Seth Garrett Anderle of Harris County, Spring, Texas and Robert W. Arfele of Montgomery County, Magnolia, Texas; have invented "*CUTTING STRUCTURE DESIGN WITH SECONDARY CUTTER METHODOLOGY*" for which I/We have made application for Letters Patent of the International Bureau and which has been disclosed in the application for Patent Cooperation Treaty, Application Serial No. PCT/US2013/076091, filed December 18, 2013; and

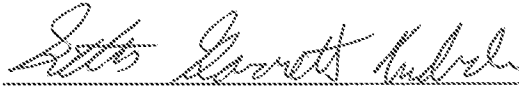
Whereas, HALLIBURTON ENERGY SERVICES, INC., a Delaware Corporation, having a place of business at 10200 Bellaire Boulevard, Houston, Texas 77072 is desirous of acquiring an interest therein;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I/We, by these presents do sell, assign and transfer and convey unto HALLIBURTON ENERGY SERVICES, INC., its successors and assigns, the full and exclusive right, title and interest for the Patent Cooperation Treaty, and its territorial possessions and for any and all foreign countries, in and to said invention, in and to any and all improvements, and any divisional, continuing or reissue application based on the present application preparatory to obtaining Letters Patent of the International Application therefor; said invention, application and any and all Letters Patent issuing therefor to be held and enjoyed by HALLIBURTON ENERGY SERVICES, INC., for its own use and behoove, and for its legal representatives, successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me and had this assignment and sale not been made.

And I do further agree to sign all papers, make all rightful oaths and do all requisite acts for the filing of any disclaimer or for the filing and assignment of any divisional, continuing or reissue application or applications for patent based on the present application, as well as for any other U.S. or foreign application for patent which relates to the said invention.

And I do further agree to communicate to HALLIBURTON ENERGY SERVICES, INC., its successors, assign or other legal representatives, such facts relating to the invention disclosed in the present application or Letters Patent issuing thereon as may be known to me, and to testify as to such facts in any interference or other litigation.

Executed this 6 day of JANUARY, 2014.

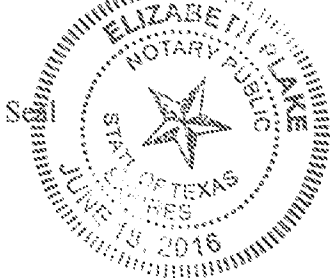
  
Seth Garrett Anderle

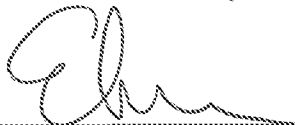
STATE OF TEXAS )

)

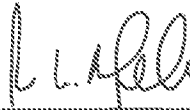
COUNTY OF HARRIS )

Before me personally appeared said Seth Garrett Anderle and acknowledged the foregoing instrument to be his free act and deed this 6 day of JANUARY, 2014.



  
(Notary)

Executed this 6 day of JANUARY, 2014.



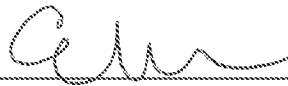
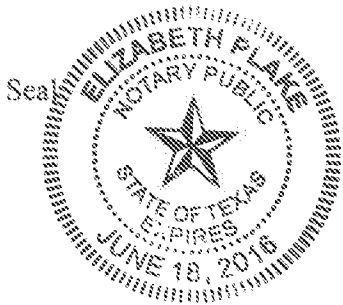
Robert W. Arfele

STATE OF TEXAS )

)

COUNTY OF MONTGOMERY )

Before me personally appeared said Robert W. Arfele and acknowledged the foregoing instrument to be his free act and deed this 6 day of JANUARY, 2014.



(Notary)