

## 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>Jim T. Hill</td> <td>09/23/2012</td> </tr> <tr> <td>Clinton C. Quattlebaum</td> <td>09/24/2012</td> </tr> <tr> <td>John D. Burleson</td> <td>09/25/2012</td> </tr> <tr> <td>Tony F. Grattan</td> <td>12/13/2012</td> </tr> </tbody> </table>		Name	Execution Date	Jim T. Hill	09/23/2012	Clinton C. Quattlebaum	09/24/2012	John D. Burleson	09/25/2012	Tony F. Grattan	12/13/2012
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RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>Halliburton Energy Services, Inc.</td> </tr> <tr> <td>Street Address:</td> <td>10200 Bellaire Boulevard</td> </tr> <tr> <td>City:</td> <td>Houston</td> </tr> <tr> <td>State/Country:</td> <td>TEXAS</td> </tr> <tr> <td>Postal Code:</td> <td>77072</td> </tr> </table>		Name:	Halliburton Energy Services, Inc.	Street Address:	10200 Bellaire Boulevard	City:	Houston	State/Country:	TEXAS	Postal Code:	77072
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CORRESPONDENCE DATA											
Fax Number: 5123228388 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> Phone: 713 229-1234 Email: crystle.garbade@bakerbotts.com Correspondent Name: Baker Botts L.L.P. Address Line 1: 910 Louisiana Street, One Shell Plaza Address Line 4: Houston, TEXAS 77002											
ATTORNEY DOCKET NUMBER:	063718.2468										
NAME OF SUBMITTER:	Crystle Garbade										
Signature:	/Crystle Garbade/										

Date:

07/24/2013

**Total Attachments: 6**

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## ASSIGNMENT

Whereas, I/We, Jim T. Hill of Kingwood, Texas; Clinton C. Quattlebaum of Mansfield, Texas; John D. Burleson of Denton, Texas and Tony F. Grattan of Mansfield, Texas have invented “*SYSTEM AND METHOD FOR SAFELY CONDUCTING EXPLOSIVE OPERATIONS IN A FORMATION*” 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/US2012/54996, filed September 13, 2012; and

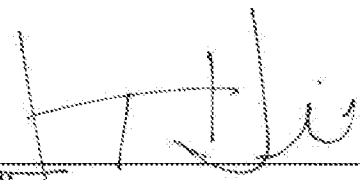
Whereas, HALLIBURTON ENERGY SERVICES, INC., a Delaware Corporation, having a place of business at 10200 Bellaire Boulevard, Houston, Texas 77072 is desirous of acquiring an interest therein;

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 behoof, 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 23 day of September, 2012.

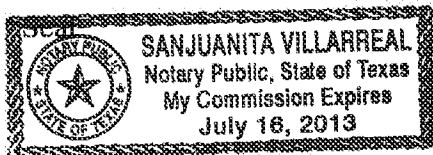
  
\_\_\_\_\_  
Jim T. Hill

STATE OF TEXAS )

) ss

COUNTY OF HARRIS )


Before me personally appeared said Jim T. Hill and acknowledged the foregoing instrument to be his free act and deed this 28<sup>th</sup> day of September, 2012.



  
\_\_\_\_\_  
Sanjuanita Villarreal

Notary

Executed this 24 day of September, 2012.

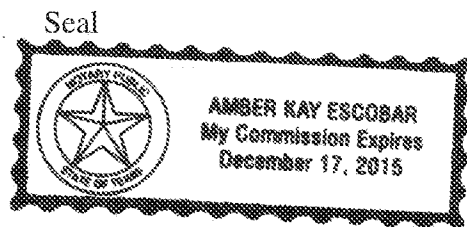
  
Clinton C. Quattlebaum

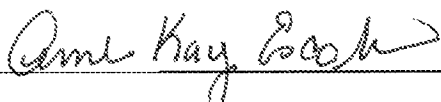
STATE OF TEXAS )

) ss

COUNTY OF TARRANT )

Before me personally appeared said Clinton C. Quattlebaum and acknowledged the foregoing instrument to be his free act and deed this 24th day of September, 2012.



  
Notary

Executed this 25<sup>th</sup> day of September, 2012.

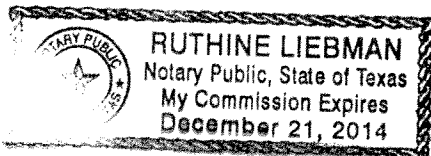
  
John D. Burleson

STATE OF TEXAS )  
 ) ss  
COUNTY OF DALLAS ne )  
~~DENTON~~

Before me personally appeared said John D. Burleson and acknowledged the foregoing instrument to be his free act and deed this 25<sup>th</sup> day of September, 2012.

Seal

Guthrie Liebman  
Notary



Executed this 13 day of December, 2012.

Tony F. Grattan

STATE OF TEXAS )  
 ) ss  
 ) *DALLAS* ne  
COUNTY OF ~~TARRANT~~ )

Before me personally appeared said Tony F. Grattan and acknowledged the foregoing instrument to be his free act and deed this 13<sup>th</sup> day of December, 2012.

Seal

Guthrie Lebrun

Notary

