

# PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
Name	Execution Date
Don L. Crawford	12/08/2009
David L. Pozas	01/13/2010
<b>RECEIVING PARTY DATA</b>	
Name:	Halliburton Energy Services, Inc.
Street Address:	10200 Bellaire Boulevard
City:	Houston
State/Country:	TEXAS
Postal Code:	77072
<b>PROPERTY NUMBERS Total: 2</b>	
Property Type	Number
Application Number:	12516406
PCT Number:	US0661251
<b>CORRESPONDENCE DATA</b>	
Fax Number:	(713)238-8008
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
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Correspondent Name:	Carol E. Smith
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ATTORNEY DOCKET NUMBER:	1391-70302
NAME OF SUBMITTER:	Carol E. Smith
<p>Total Attachments: 5</p> <p>source=1391-70302 Executed Assignment#page1.tif</p> <p>source=1391-70302 Executed Assignment#page2.tif</p>	

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**PATENT**  
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## ASSIGNMENT

IN CONSIDERATION OF TEN DOLLARS (\$10.00) cash in hand paid to us by **HALLIBURTON ENERGY SERVICES, INC.**, and other valuable consideration, the receipt and sufficiency of which are hereby acknowledged, we, **DON L. CRAWFORD, CHI-HUANG M. CHANG,** and **DAVID L. POZAS** ("ASSIGNORS"), having made an invention in "**APPARATUS AND METHODS FOR SIDEWALL PERCUSSION CORING USING A VOLTAGE ACTIVATED IGNITER**," while in the employ either as an employee or consultant of **HALLIBURTON ENERGY SERVICES, INC.**, a corporation organized and existing under the laws of the State of Texas, doing business at 10200 Bellaire Boulevard, Houston, Texas 77072 (sometimes hereinafter called "ASSIGNEE"), do hereby **ASSIGN, SELL and CONVEY** to said **HALLIBURTON ENERGY SERVICES, INC.** its successors and assigns, the entire right, title and interest throughout the world in and to:

1. Said invention in "**APPARATUS AND METHODS FOR SIDEWALL PERCUSSION CORING USING A VOLTAGE ACTIVATED IGNITER**;"
2. Patent Cooperation Treaty international application on said invention, filed as PCT Application No. PCT/US2006/061251 on November 27, 2006, (Attorney's File No. 1391-70300) entitled "**APPARATUS AND METHODS FOR SIDEWALL PERCUSSION CORING USING A VOLTAGE ACTIVATED IGNITER**;"
3. United States of America patent application on said invention, filed as U.S. Patent Application No. 12/516,406 filed May 27, 2009 (Attorney's File No. 1391-70302), entitled "**APPARATUS AND METHODS FOR SIDEWALL PERCUSSION CORING USING A VOLTAGE ACTIVATED IGNITER**," based on and claiming priority to PCT/US2006/061251 filed November 27, 2006;
4. All applications for patent or like protection on said invention that have now been or may in the future be made by me or my legal representatives, including any continuation, continuation-in-part and any other utility applications that may be based on this invention, whether in the United States of America or any other place anywhere in the world;
5. All patents and like protection that have now been or may in the future be granted on said invention to me or my legal representatives, whether in the United States of America or in any other country or place anywhere in the world;

6. All substitutions for and divisions, continuations, continuations-in-part, renewals, reissues, extensions, and the like of said applications and patents and like grants, including without limitation, those obtained or permissible under past, present and future laws and statutes;
7. All rights of action on account of past, present and future unauthorized use of said invention and for infringement of said patents and like protection;
8. The right in ASSIGNEE to file in its name applications for patents and like protection for said invention in any country or countries foreign to the United States; and
9. All international rights of priority associated with said invention, applications, patents and like protection;

and we covenant that we, and our heirs, legal representatives, assigns, administrators, and executors, will, at the expense of ASSIGNEE, its successors and assigns, execute all papers and perform such other acts as may be reasonably necessary to give ASSIGNEE, its successors and assigns, the full benefit of this Assignment.

\*\*\*\*\*

EXECUTED on the date indicated below, opposite my signature.

Date: Dec 8<sup>th</sup>, 2009

ASSIGNOR

Don L. Crawford

Don L. Crawford

THE STATE Texas §  
COUNTY OF Harris §

BEFORE ME, the undersigned authority, on this day personally appeared **Don L. Crawford**, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

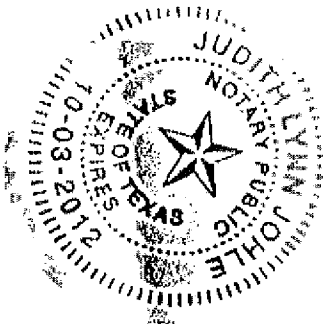
GIVEN UNDER MY HAND AND SEAL OF OFFICE, this the 8<sup>th</sup> day of December, 2009.

[SEAL]

My Commission Expires:

10/03/2012

Judith Lynn Stahle  
Notary Public in and for  
the State of Texas



\*\*\*\*\*

ASSIGNOR

Date: \_\_\_\_\_  
Chi-Huang M. Chang

THE STATE \_\_\_\_\_ §  
COUNTY OF \_\_\_\_\_ §

BEFORE ME, the undersigned authority, on this day personally appeared **Chi-Huang M. Chang**, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this the \_\_\_\_\_ day of \_\_\_\_\_, 2009.

[S E A L]

My Commission Expires:

\_\_\_\_\_  
Notary Public in and for  
the State of \_\_\_\_\_

\*\*\*\*\*

ASSIGNOR

Date: Jan 13, 2010

David L. Pozas  
David L. Pozas

THE STATE California §  
COUNTY OF Kern §

BEFORE ME, the undersigned authority, on this day personally appeared **David L. Pozas**, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this the 13 day of January, 2009. 2010

[SEAL]



My Commission Expires:

9/12/2010

K. Hartley  
Notary Public in and for  
the State of California