

# PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT																				
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT																				
<b>CONVEYING PARTY DATA</b>																					
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr><td>Craig W. RODDY</td><td>03/22/2011</td></tr> <tr><td>Rick L. COVINGTON</td><td>03/21/2011</td></tr> <tr><td>Krishna M. RAVI</td><td>03/31/2011</td></tr> <tr><td>Michael BITTAR</td><td>04/11/2011</td></tr> <tr><td>Clovis BONAVIDES</td><td>04/14/2011</td></tr> <tr><td>Gordon MOAKE</td><td>03/22/2011</td></tr> <tr><td>Batakrisna MANDAL</td><td>03/23/2011</td></tr> <tr><td>Paul RODNEY</td><td>03/21/2011</td></tr> <tr><td>William TAPIE</td><td>03/24/2011</td></tr> </tbody> </table>		Name	Execution Date	Craig W. RODDY	03/22/2011	Rick L. COVINGTON	03/21/2011	Krishna M. RAVI	03/31/2011	Michael BITTAR	04/11/2011	Clovis BONAVIDES	04/14/2011	Gordon MOAKE	03/22/2011	Batakrisna MANDAL	03/23/2011	Paul RODNEY	03/21/2011	William TAPIE	03/24/2011
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<b>RECEIVING PARTY DATA</b>																					
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 20%;"><b>Name:</b></td><td>Halliburton Energy Services, Inc.</td></tr> <tr><td><b>Street Address:</b></td><td>10200 Bellaire Boulevard</td></tr> <tr><td><b>City:</b></td><td>Houston</td></tr> <tr><td><b>State/Country:</b></td><td>TEXAS</td></tr> <tr><td><b>Postal Code:</b></td><td>77072</td></tr> </table>		<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>Name:</b>	Halliburton Energy Services, Inc.																				
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<b>PROPERTY NUMBERS Total: 1</b>																					
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<b>CORRESPONDENCE DATA</b>																					
<p>Fax Number: (972)731-2289</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: (972)731-2288</p> <p>Email: rcarroll@dfw.conleyrose.com</p> <p>Correspondent Name: Rodney B. Carroll</p> <p>Address Line 1: 5601 Granite Parkway, Suite 750</p> <p>Address Line 4: Plano, TEXAS 75024</p>																					

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**PATENT**  
**REEL: 026231 FRAME: 0398**

ATTORNEY DOCKET NUMBER:	HES 2006-IP-022228U1P6
NAME OF SUBMITTER:	Rodney B. Carroll
<p>Total Attachments: 10</p> <p>source=ExecutedAssignment#page1.tif</p> <p>source=ExecutedAssignment#page2.tif</p> <p>source=ExecutedAssignment#page3.tif</p> <p>source=ExecutedAssignment#page4.tif</p> <p>source=ExecutedAssignment#page5.tif</p> <p>source=ExecutedAssignment#page6.tif</p> <p>source=ExecutedAssignment#page7.tif</p> <p>source=ExecutedAssignment#page8.tif</p> <p>source=ExecutedAssignment#page9.tif</p> <p>source=ExecutedAssignment#page10.tif</p>	

**ASSIGNMENT**

Whereas, I/We, Craig W. Roddy, of Duncan, Oklahoma, Rick L. Covington of Frisco, Texas, Krishna M. Ravi of Kingwood, Texas, Michael Bittar, Clovis Bonavides, and Gordon Moake all of Houston, Texas, Batakrishna Mandal of Missouri City, Texas, Paul Rodney of Spring, Texas, and William Tapie of Conroe, Texas have invented "USE OF MICRO-ELECTRO-MECHANICAL SYSTEMS (MEMS) IN WELL TREATMENTS" for which I have made application for Letters Patent of the United States; 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, for the United States of America and its territorial possessions and for any and all foreign countries, in and to the said invention, described in the Patent Application serial number 13/031,519 filed on February 21, 2011 and any divisional, continuing or reissue application based on the present application preparatory to obtaining Letters Patent of the United States 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.

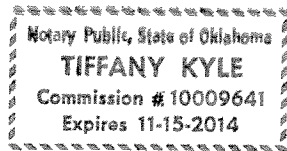
Executed this 22<sup>nd</sup> day of March, 2011

Craig W. Roddy  
Craig W. Roddy

STATE OF OKLAHOMA     )  
  ) ss  
COUNTY OF STEPHENS     )


Before me personally appeared said Craig W. Roddy and acknowledged the foregoing instrument to be his free act and deed this 22<sup>nd</sup> day of March, 2011.

Seal



Tiffany Kyle  
(Notary)

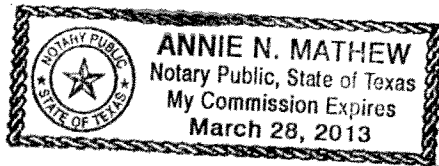
Executed this 21<sup>ST</sup> day of MARCH, 2011

  
Rick L. Covington

STATE OF TEXAS )  
 ) ss  
COUNTY OF DALLAS )

Before me personally appeared said Rick L. Covington and acknowledged the foregoing instrument to be his free act and deed this 21<sup>ST</sup> day of MARCH, 2011.

Seal



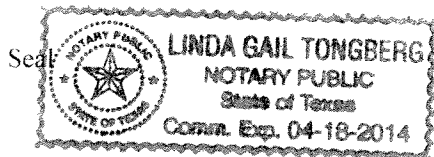
Annie M. Matteen  
(Notary)

Executed this 31<sup>st</sup> day of March, 2011

Krishna M. Ravi  
Krishna M. Ravi

STATE OF Texas )  
COUNTY OF Harris ) ss

Before me personally appeared said Krishna M. Ravi and acknowledged the foregoing instrument to be his free act and deed this 31<sup>st</sup> day of march, 2011.



Linda Gail Tongberg  
(Notary)

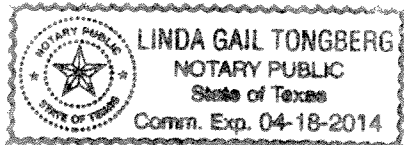
Executed this 11<sup>th</sup> day of April, 2011

Michael Bittar  
Michael Bittar

STATE OF Texas )  
 ) ss  
COUNTY OF Harris )


Before me personally appeared said Michael Bittar and acknowledged the foregoing instrument to be his free act and deed this 11<sup>th</sup> day of April, 2011.

Seal



Linda Gail Tongberg  
(Notary)

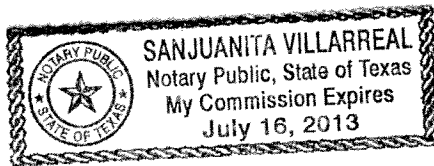
Executed this 14<sup>th</sup> day of April, 2011

  
Clovis Bonavides

STATE OF \_\_\_\_\_ )  
 ) ss  
COUNTY OF \_\_\_\_\_ )

Before me personally appeared said Clovis Bonavides and acknowledged the foregoing instrument to be his free act and deed this 14<sup>th</sup> day of April, 2011.

Seal



Sam Granata Villanueva  
(Notary)

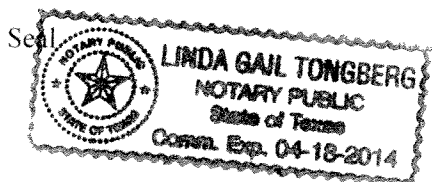


Executed this 22nd day of March, 2011

Gordon Moake  
Gordon Moake

STATE OF Texas )  
 ) ss  
COUNTY OF Harris )

Before me personally appeared said Gordon Moake and acknowledged the foregoing instrument to be his free act and deed this 22nd day of March, 2011.



Linda Gail Tongberg  
(Notary)

Executed this 23 day of March, 2011

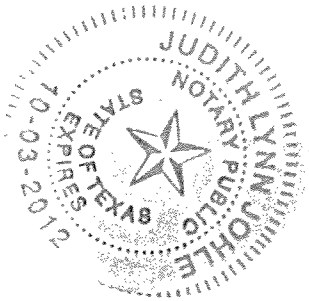
Batakrishna Mandal  
Batakrishna Mandal

STATE OF Texas )  
COUNTY OF Harris ) ss

Before me personally appeared said Batakrishna Mandal and acknowledged the foregoing instrument to be his free act and deed this 23rd day of March, 2011.

Seal

Judith Lynn Johle  
(Notary)



Executed this 21st day of March, 2011

Paul G. Rodney  
Paul Rodney

STATE OF Texas )  
COUNTY OF Harris ) ss

Before me personally appeared said Paul Rodney and acknowledged the foregoing instrument to be his free act and deed this 21st day of March, 2011.

Seal



Cheri Amour Smith James  
(Notary)

Executed this 24 day of March, 2011

William E Tapie  
William Tapie

STATE OF Texas )  
COUNTY OF Harris ) ss

Before me personally appeared said William Tapie and acknowledged the foregoing instrument to be his free act and deed this 24th day of March, 2011.

Seal

Judith Lynn Johle  
(Notary)

