

PATENT ASSIGNMENT

Electronic Version v1.1
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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>Steven G. Villareal</td> <td>10/10/2012</td> </tr> <tr> <td>Julian Pop</td> <td>10/12/2012</td> </tr> <tr> <td>Kent David Harms</td> <td>10/08/2012</td> </tr> <tr> <td>Jeremy Murphy</td> <td>10/08/2012</td> </tr> <tr> <td>Albert Hoefel</td> <td>10/08/2012</td> </tr> </tbody> </table>		Name	Execution Date	Steven G. Villareal	10/10/2012	Julian Pop	10/12/2012	Kent David Harms	10/08/2012	Jeremy Murphy	10/08/2012	Albert Hoefel	10/08/2012
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RECEIVING PARTY DATA													
<table border="1"> <tr> <td>Name:</td> <td>SCHLUMBERGER TECHNOLOGY CORPORATION</td> </tr> <tr> <td>Street Address:</td> <td>300 Schlumberger Drive</td> </tr> <tr> <td>City:</td> <td>Sugar Land</td> </tr> <tr> <td>State/Country:</td> <td>TEXAS</td> </tr> <tr> <td>Postal Code:</td> <td>77478</td> </tr> </table>		Name:	SCHLUMBERGER TECHNOLOGY CORPORATION	Street Address:	300 Schlumberger Drive	City:	Sugar Land	State/Country:	TEXAS	Postal Code:	77478		
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CORRESPONDENCE DATA													
<p>Fax Number: 7136892219 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 713-689-5638 Email: bflanders@slb.com Correspondent Name: SCHLUMBERGER TECHNOLOGY CORPORATION, HPS Address Line 1: 10001 Richmond Ave Address Line 2: IP - Center of Excellence Address Line 4: Houston, TEXAS 77042</p>													
ATTORNEY DOCKET NUMBER:	IS10.1020-US-NP												
NAME OF SUBMITTER:	Bruce L. Flanders												

CH \$40.00 13653091

Total Attachments: 8

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Assignment

WHEREAS, the undersigned inventors hereinafter referred to as the "Inventors" each said Inventor's address being listed below:

Steven G. Villareal, a citizen of the United States of America, residing at 2500 Mandell Street, Houston, TX 77006 USA;

Julian Pop, a citizen of the Australia, residing at 9550 Ella Lee Ln., Apt# 2101, Houston, TX 77063 USA;

Kent David Harms, a citizen of the United States of America, residing at 4503 Coletto Creek Court, Richmond, TX 77406;

Jeremy Murphy, a citizen of the United States of America, residing at 2307 Planters Row, Sugar Land, TX 77478, USA; and

Albert Hoefel, a citizen of Germany, residing at 1619 Berkoff Drive, Sugar Land, TX 77479 USA;

Has/have invented certain new and useful improvements in

Drilling Tool System and Method of Manufacture

as described and set forth in an application for Letters Patent of the United States of America, filed with the United States Patent and Trademark Office on October 16, 2012, Serial No. 13/653,091, (Docket No. IS10.1020-US-NP).

AND WHEREAS, the "**COMPANIES**", listed in **Schedule A**, are desirous of acquiring or confirming their acquisition of the entire right, title and interest in and to said invention, inventions or improvements, and in and to said application, and in and to any and all patents, both of the United States and of all foreign countries, that may be obtained therefore **as outlined in Schedule A**;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, BE IT KNOWN, that the undersigned Inventors, for good and valuable considerations, the receipt and sufficiency of which hereby acknowledge, have sold, assigned, transferred and conveyed, and by this assignment do sell, assign, transfer and convey, unto said COMPANIES, their successors and assigns, the entire right, title and interest throughout the world, in and to the above-described invention, inventions or improvements described or set forth in said application, in any form or embodiment thereof, and in and to said application, and in and to any applications filed in any foreign country based thereon, including the right to file foreign applications under the provisions of any convention or treaty; and in and to any confirmation, divisional, continuation, continuation-in-part, or substitute application which may be filed on said invention, inventions or improvements in the United States or in any foreign country; and in and to any and all patents, certificates, utility models, reissues, extensions, additions or confirmations thereof which may be

granted in the United States or in any foreign country upon said invention, inventions or improvements,

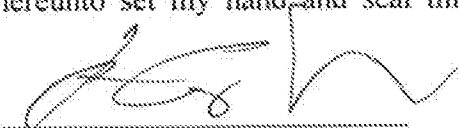
TO HAVE AND TO HOLD the same to the full end of the term or terms for which any and all such United States and foreign patents and grants may be issued on said invention, inventions or improvements.

AND said Inventors do hereby authorize and request the issuing authority to issue any and all of said United States and foreign patents on said application or applications to said **COMPANIES**, their successors and assigns, as the assignee of the entire right, title and interest in and to the same, for the sole use and benefit of said **COMPANIES**, their successors and assigns.

AND said Inventors do hereby covenant and warrant that said Inventors have full right to convey the entire right, title and interest herein assigned free and clear of all licenses, encumbrances and liens whatsoever, and that no said Inventors has executed and will execute any instruments in conflict herewith.

AND said Inventors, for the conditions aforesaid, do hereby covenant and agree to and with the said **COMPANIES**, their successors and assigns, that each Inventor, his or her executors, administrators, or other personal representatives, shall and will do all lawful acts and things, make all rightful oaths, and make, execute and deliver any and all other instruments in writing, and any and all further applications, papers, powers, affidavits, assignments, disclaimers and other documents, which in the opinion of counsel for said **COMPANIES**, their successors and assigns, may be required or necessary in this or in any foreign country more effectually to secure to and vest in said **COMPANIES**, their successors and assigns, the entire right, title and interest in and to said invention, inventions or improvements, application or applications, patents, rights, titles, benefits, privileges, and advantages hereby sold, assigned, confirmed, transferred and conveyed.

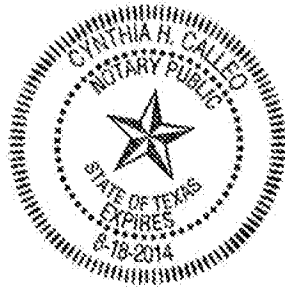
IN WITNESS WHEREOF I, **Steven G. Villareal**, have hereunto set my hand and seal this
10 day of October, 2012.

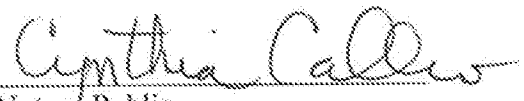

(Signature of Inventor)

STATE OF Texas
COUNTY OF Fort Bend

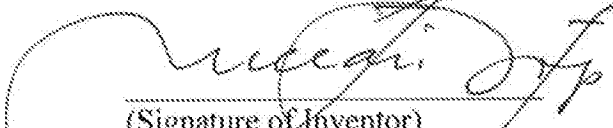
BEFORE ME this 10th day of Oct, 2012, personally appeared **Steven G. Villareal**, to me known to be the person who is described in and who executed the foregoing assignment instrument and acknowledged to me that he executed the same of his own free will for the purpose therein expressed.

Seal




Notary Public

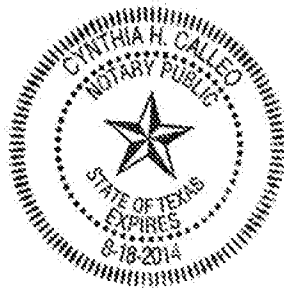
IN WITNESS WHEREOF I, **Julian Pop**, have hereunto set my hand and seal this 12th
day of October, 2012.

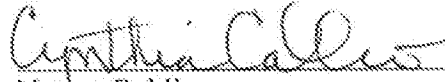

(Signature of Inventor)

STATE OF Texas
COUNTY OF Fort Bend

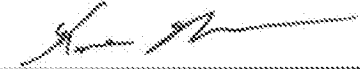
BEFORE ME this 12th day of Oct, 2012, personally appeared **Julian Pop**, to me known to be the person who is described in and who executed the foregoing assignment instrument and acknowledged to me that he executed the same of his own free will for the purpose therein expressed.

Seal




Notary Public

IN WITNESS WHEREOF I, **Kent David Harms**, have hereunto set my hand and seal this
8 day of Oct, 2012.

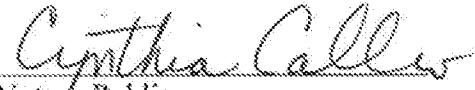

(Signature of Inventor)

STATE OF Texas
COUNTY OF Fort Bend

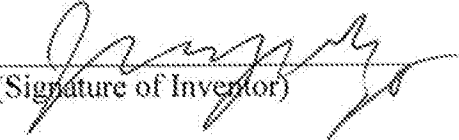
BEFORE ME this 8th day of Oct, 2012, personally appeared **Kent David Harms**, to me known to be the person who is described in and who executed the foregoing assignment instrument and acknowledged to me that he executed the same of his own free will for the purpose therein expressed.

Seal




Notary Public

IN WITNESS WHEREOF I, **Jeremy Murphy**, have hereunto set my hand and seal this
8th day of October, 2012.

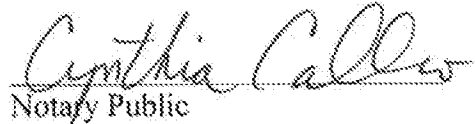

(Signature of Inventor)

STATE OF Texas
COUNTY OF Fort Bend

BEFORE ME this 8th day of Oct., 2012, personally appeared **Jeremy Murphy**,
to me known to be the person who is described in and who executed the foregoing assignment
instrument and acknowledged to me that he executed the same of his own free will for the
purpose therein expressed.

Seal



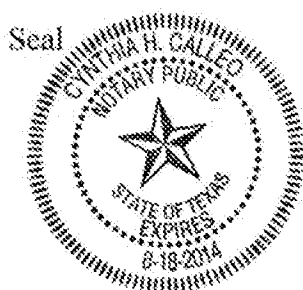

Notary Public

IN WITNESS WHEREOF I, **Albert Hoefel**, have hereunto set my hand and seal this
8th day of Oct., 2012.

Albert Hoefel
(Signature of Inventor)

STATE OF Texas
COUNTY OF Fort Bend

BEFORE ME this 8th day of Oct., 2012, personally appeared **Albert Hoefel**, to
me known to be the person who is described in and who executed the foregoing assignment
instrument and acknowledged to me that he executed the same of his own free will for the
purpose therein expressed.



Cynthia Calles
Notary Public

Schedule A
"COMPANIES"

SCHLUMBERGER TECHNOLOGY CORPORATION

Corporation of: United States of America

Located at: 300 Schlumberger Drive, Sugar Land, Texas 77478 U.S.A.

Assignee for applications in: United States of America

SCHLUMBERGER CANADA LIMITED

Corporation of: Canada

Located at: 525-3rd Avenue S.W., Calgary, Alberta, Canada T2P 0G4

Assignee for applications in: Canada

SERVICES PETROLIERS SCHLUMBERGER

Corporation of: France

Located at: 42 rue Saint Dominique, 75007 Paris, France

Assignee for applications in: France

SCHLUMBERGER HOLDINGS LIMITED

Corporation of: British Virgin Islands

Located at: P.O. Box 71, Craigmuir Chambers, Road Town, 1110 Tortola, British Virgin Islands

Assignee for applications in: Japan, The Netherlands, United Kingdom

SCHLUMBERGER TECHNOLOGY B.V.

Corporation of: the Netherlands

Located at: Parkstraat 83-89, 2514 JG The Hague, The Netherlands

Assignee for applications in: Albania, Argentina, Australia, Austria, Azerbaijan, Brunei, Bulgaria, Chile, Colombia, Croatia, Cyprus, Czech Republic, Denmark, Egypt, Equatorial Guinea, Falkland Islands, Faroe Islands, Georgia, Germany, Greece, Greenland, Hungary, Indonesia, Ireland, Israel, Italy, Kazakhstan, Kenya, Korea, Kuwait, Lithuania, Madagascar, Malaysia, Mexico, New Zealand, Norway, Oman, Pakistan, Poland, Qatar, Romania, Russia, Saudi Arabia, Slovakia, Slovenia, South Africa, Suriname, Switzerland, Tanzania, Thailand, Trinidad, Tunisia, Turkey, Turkmenistan, Uganda, Ukraine, Uruguay, Uzbekistan, Venezuela.

PRAD RESEARCH AND DEVELOPMENT LIMITED

Corporation of: British Virgin Islands

Located at: P.O. Box 71, Craigmuir Chambers, Road Town, 1110 Tortola, British Virgin Islands

Assignee for applications in: Eurasia, Gulf Cooperation Council, and Countries not otherwise listed.