

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT3782549

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
ALBERT HOEFEL	02/16/2016
KENT DAVID HARMS	02/16/2016
STEVEN G. VILLAREAL	03/14/2016
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	SCHLUMBERGER TECHNOLOGY CORPORATION
<b>Street Address:</b>	300 SCHLUMBERGER DRIVE
<b>City:</b>	SUGAR LAND
<b>State/Country:</b>	TEXAS
<b>Postal Code:</b>	77478
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	14755323
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<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>Email:</b>	kdumas-scarber@slb.com
<b>Correspondent Name:</b>	KRISTINE DUMAS-SCARBER
<b>Address Line 1:</b>	10001 RICHMOND AVENUE
<b>Address Line 2:</b>	ROOM 4720
<b>Address Line 4:</b>	HOUSTON, TEXAS 77042
<b>ATTORNEY DOCKET NUMBER:</b>	IS15.0088-US-NP
<b>NAME OF SUBMITTER:</b>	KRISTINE DUMAS-SCARBER
<b>SIGNATURE:</b>	/KRISTINE DUMAS-SCARBER/
<b>DATE SIGNED:</b>	03/14/2016
<b>Total Attachments: 6</b>	
source=IS150088USNP_20160314_Signed_Assignment#page1.tif	
source=IS150088USNP_20160314_Signed_Assignment#page2.tif	
source=IS150088USNP_20160314_Signed_Assignment#page3.tif	
source=IS150088USNP_20160314_Signed_Assignment#page4.tif	

source=IS150088USNP\_20160314\_Signed\_Assignment#page5.tif

source=IS150088USNP\_20160314\_Signed\_Assignment#page6.tif

## Assignment

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

✓ **Albert Hoefel**, a citizen of Germany;

• **Kent David Harms**, a citizen of the United States of America;

and

✓ **Steven G. Villareal**, a citizen of the United States of America;

Has/have invented certain new and useful improvements in

### **FAULT DETECTION AND TOLERANCE IN DOWNHOLE TOOL STRING ASSEMBLIES**

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 June 30, 2015, Serial No. 14/755,323, (Docket No. IS15.0088-US-NP). This assignment is effective as of June 30, 2015.

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, **Albert Hoefel**, have hereunto set my hand and seal this  
16 day of February, 2016.

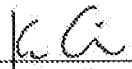
  
Albert Hoefel

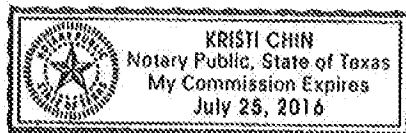
STATE OF TEXAS

COUNTY OF HARRIS

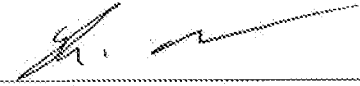
BEFORE ME this 16<sup>th</sup> day of February, 2016, personally appeared **Albert Hoefel**, to me known to be the person who is described in and who executed the foregoing assignment instrument and acknowledged to me that he executed the same of his own free will for the purpose therein expressed.

Seal

  
Notary Public



IN WITNESS WHEREOF I, **Kent David Harms**, have hereunto set my hand and seal this  
16 day of FEB, 2016.

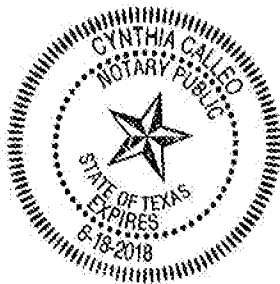
  
\_\_\_\_\_  
**Kent David Harms**

STATE OF TEXAS

COUNTY OF FORT BEND

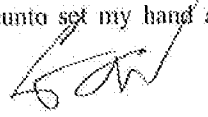
BEFORE ME this 16 day of Feb, 2016, personally appeared **Kent David Harms**, to me known to be the person who is described in and who executed the foregoing assignment instrument and acknowledged to me that he executed the same of his own free will for the purpose therein expressed.

Seal

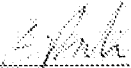


  
\_\_\_\_\_  
Notary Public

IN WITNESS WHEREOF I, Steven G. Villareal, have hereunto set my hand and seal this  
14 day of March, 2016.

  
Steven G. Villareal

BE IT KNOWN that Steven G. Villareal, is to me known to be the individual described in the foregoing assignment, that on the aforementioned date, I was personally present and did see him sign and execute the foregoing assignment; and, that he did acknowledge to me that he executed the same as his free act and deed for the uses and purposes therein set forth.

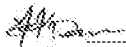
 EDWARD PARKIN  
Witness

49 KIDNAMS WALK

HYDE LANE

WITMEASTER

GL2 7NL  
Post Office Address

 SIAMAK DADKHAN  
Witness

29 ROBERTS ROAD

PRIEST BURY

CHELTONHAM

GL52 5DJ  
Post Office Address

**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: 125 – 9 Avenue SE, Calgary, Alberta T2G 0P6

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 TECHNOLOGY B.V.**

Corporation of: The Netherlands

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

Assignee for applications in: GCC and all other countries not otherwise listed.