

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT4616016

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
DEAN M. HOMAN	07/12/2016
JON BRUNETTI	09/22/2017
DAVID L. SMITH	07/07/2017
ERWANN LEMENAGER	08/16/2017
<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>	15536400
<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>	IS14.8351-US-PCT
<b>NAME OF SUBMITTER:</b>	KRISTINE DUMAS-SCARBER
<b>SIGNATURE:</b>	/KRISTINE DUMAS-SCARBER/
<b>DATE SIGNED:</b>	09/28/2017
<b>Total Attachments: 7</b>	
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**Assignment**

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

**Dean M. Homan**, a citizen of the United States of America;

**Jon Brunetti**, a citizen of the United States of America;

**David L. Smith**, a citizen of the United States of America; and

**Erwann Lemenager**, a citizen of France;

Has/have invented certain new and useful improvements in

**ELECTRIC DIPOLE SURFACE ANTENNA CONFIGURATIONS FOR  
ELECTROMAGNETIC WELLBORE INSTRUMENT TELEMETRY**

as described and set forth in an application identified as International Application No. PCT/US2015/066496, (Docket No. IS14.8351-WO-PCT) filed December 17, 2016. This assignment is effective as of December 17, 2016.

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.

This Agreement is entered in contemplation of and shall be construed in accordance with the laws of the State of Texas, and may not be amended or modified unless in a subsequent writing executed by the COMPANIES.

IN WITNESS WHEREOF I, **Dean M. Homan**, have hereunto set my hand and seal this  
12 day of July, 2016.

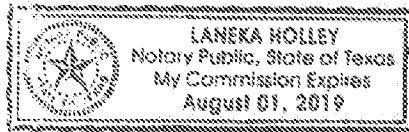
  
**Dean M. Homan**

STATE OF TEXAS

COUNTY OF FORT BEND

BEFORE ME this 12 day of July, 2016, personally appeared **Dean M. Homan**,  
to me known to be the person who is described in and who executed the foregoing assignment  
instrument and acknowledged to me that he/she executed the same of his/her own free will for  
the purpose therein expressed.

Seal



  
Notary Public

IN WITNESS WHEREOF I, Jon Brunetti, have hereunto set my hand and seal this 22<sup>nd</sup> day of September, 2017.

Jon Brunetti  
Jon Brunetti

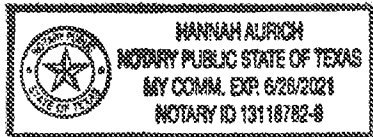
STATE OF TEXAS

COUNTY OF Harris

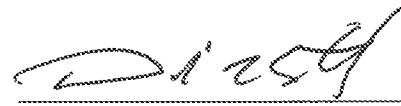
BEFORE ME this 22<sup>nd</sup> day of September, 2017, personally appeared Jon Brunetti, to me known to be the person who is described in and who executed the foregoing assignment instrument and acknowledged to me that he/she executed the same of his/her own free will for the purpose therein expressed.

Seal

Hannah Alprich  
Notary Public



IN WITNESS WHEREOF I, David L. Smith, have hereunto set my hand and seal this 7<sup>th</sup> day of July, 2018.

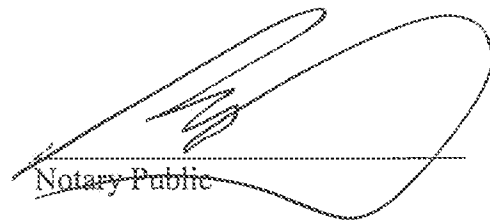
  
\_\_\_\_\_  
David L. Smith

STATE OF COLORADO

COUNTY OF Adams

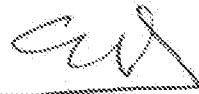
BEFORE ME this 7<sup>th</sup> day of July, 2018, personally appeared **David L. Smith**, to me known to be the person who is described in and who executed the foregoing assignment instrument and acknowledged to me that he/she executed the same of his/her own free will for the purpose therein expressed.

Seal

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

ANDY GABRIEL OROZCO RIVAS  
NOTARY PUBLIC  
STATE OF COLORADO  
NOTARY ID 20174024846  
MY COMMISSION EXPIRES 06/13/2021

IN WITNESS WHEREOF I, Erwann Lemenager, have hereunto set my hand and seal this 16 day of August, 2017

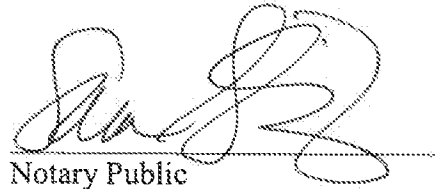
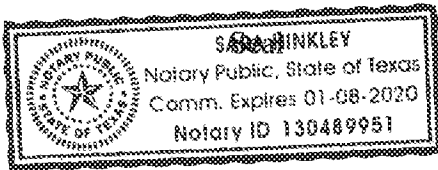


Erwann Lemenager

STATE OF TEXAS

COUNTY OF HARRIS

BEFORE ME this 16th day of August, 2017, personally appeared Erwann Lemenager, to me known to be the person who is described in and who executed the foregoing assignment instrument and acknowledged to me that he/she executed the same of his/her own free will for the purpose therein expressed.

  
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: 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.