

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT3825266

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| MIRJAM ZWANENBURG | 08/13/2015 |
| DAVID P. SMITH | 09/16/2015 |
| ZHANKE LIU | 08/07/2015 |
| MICHELLE TORREGROSSA | 08/28/2015 |
| LIAM ZSOLT | 11/09/2015 |
| RECEIVING PARTY DATA | |
| Name: | SCHLUMBERGER TECHNOLOGY CORPORATION |
| Street Address: | 300 SCHLUMBERGER DRIVE |
| City: | SUGAR LAND |
| State/Country: | TEXAS |
| Postal Code: | 77478 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 15024314 |
| CORRESPONDENCE DATA | |
| Fax Number: | |
| <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> | |
| Email: | kdumas-scarber@slb.com |
| Correspondent Name: | KRISTINE DUMAS-SCARBER |
| Address Line 1: | 10001 RICHMOND AVENUE |
| Address Line 2: | ROOM 4720 |
| Address Line 4: | HOUSTON, TEXAS 77042 |
| ATTORNEY DOCKET NUMBER: | IS13.3378-US-PCT |
| NAME OF SUBMITTER: | KRISTINE DUMAS-SCARBER |
| SIGNATURE: | /KRISTINE DUMAS-SCARBER/ |
| DATE SIGNED: | 04/12/2016 |
| 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:

Mirjam Zwaneburg, a citizen of the Netherlands, residing at Amsterdam, The Netherlands;

David P Smith, a citizen of the United States of America, residing at 6801 Teresa Circle, Anchorage, Alaska 99516, United States of America;

Zhanke Liu, a citizen of China, residing at 1318 Cedar Terrace Court, Houston, Texas 77479, United States of America;

Michelle Torregrossa, a citizen of the United States of America, residing at 230 T C Jester Blvd. APT#477, Houston, Texas 77007, United States of America;

and

Liam Zsolt, a citizen of Canada, residing at 5410 Mockingbird Drive, apt. 221, Anchorage, Alaska, 99507, United States of America;

Has/have invented certain new and useful improvements in

MONITORING PIPE CONDITIONS

as described and set forth in the International application filed on October 1, 2013 under Serial Number PCT/US2013/062839, (Docket No. IS13.3378-WO-PCT) this assignment is effective as of October 1, 2013.

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.

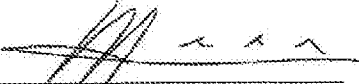
AND said Inventors do hereby authorize and request the issuing authority to issue any and all of said United States and foreign patents on said application or applications to said **COMPANIES**, their successors and assigns, as the assignee of the entire right, title and interest in and to the same,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

Docket Number: IS13.3378-WO-PCT

IN WITNESS WHEREOF I, Mirjam Zwanenburg, have hereunto set my hand and seal this
13 day of AUGUST, 2015.


Mirjam Zwanenburg

BE IT KNOWN that Mirjam Zwanenburg, 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 her sign and execute the foregoing assignment; and, that she did acknowledge to me that she executed the same as her free act and deed for the uses and purposes therein set forth.

D. Zwanenburg
Witness

Sandenburg 16a
2085 PK Hardem

Post Office Address

O. Steins
Witness

Vogelen zangweg 260
2114 CH Vogelen zang
The Nedderharste

Post Office Address

IN WITNESS WHEREOF I, David P Smith, have hereunto set my hand and seal this
16th day of Sept., 2015.


David P Smith

BE IT KNOWN that David P Smith, 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 her sign and execute the foregoing assignment; and, that she did acknowledge to me that she executed the same as her free act and deed for the uses and purposes therein set forth.


Witness

ROSSADRE SMITH
6801 TERESA CIR
ANCHORAGE, AK 99516

Post Office Address


Witness

Bruce Smith
2006 Halverson Rd
Wenatchee, WA 98801

Post Office Address

IN WITNESS WHEREOF I, Zhanke Liu, have hereunto set my hand and seal this 7th
day of August, 2015.

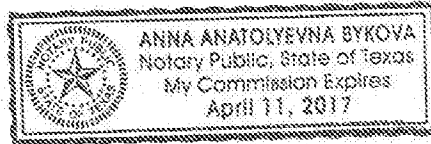
Zhanke Liu

STATE OF TEXAS

COUNTY OF FORT BEND

BEFORE ME this 7 day of August, 2015, personally appeared Zhanke Liu, 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, **Michelle Torregrossa**, have hereunto set my hand and seal this
28th day of August, 2015.

Michelle Torregrossa
Michelle Torregrossa

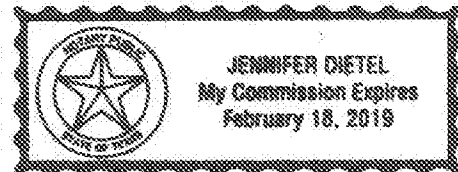
STATE OF TEXAS

COUNTY OF HARRIS

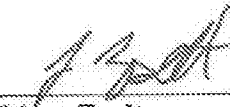
BEFORE ME this 28th day of August, 2015, personally appeared **Michelle Torregrossa**, to me known to be the person who is described in and who executed the foregoing assignment instrument and acknowledged to me that he executed the same of his own free will for the purpose therein expressed.

Seal

Jennifer Dietel
Notary Public



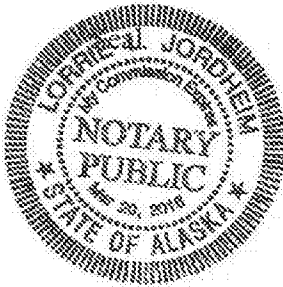
IN WITNESS WHEREOF I, Liam Zsolt, have hereunto set my hand and seal this 9th
day of November, 2015.



Liam Zsolt

STATE OF ALASKA

MUNICIPALITY OF ANCHORAGE

BEFORE ME this 9th day of November, 2015, personally appeared Liam Zsolt, 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.




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 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

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: Angola, Bahrain, Bangladesh, Benin, Cambodia, Cameroon, Chad, China, Congo, Gabon, Ghana, Guinea-Bissau, India, Ivory Coast, Jordan, Libya, Mauritania, Morocco, Mozambique, Myanmar, Namibia, Nigeria, Philippines, Senegal, Sudan, Syria, Taiwan, Togo, UAE, Vietnam, Zaire.

SCHLUMBERGER TECHNOLOGY B.V.

Corporation of: the Netherlands

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

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