

# PATENT ASSIGNMENT

Electronic Version v1.1  
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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
Name	Execution Date
DEMOSTHENIS PAFITIS	09/14/2009
JAHIR PABON	09/14/2009
JOACHIM SIHLER	02/25/2010
<b>RECEIVING PARTY DATA</b>	
Name:	Schlumberger Technology Corporation
Street Address:	300 Schlumberger Drive
City:	Sugar Land
State/Country:	TEXAS
Postal Code:	77478
<b>PROPERTY NUMBERS Total: 1</b>	
Property Type	Number
Application Number:	12556111
<b>CORRESPONDENCE DATA</b>	
Fax Number:	(281)285-8821
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
Phone:	2812858500
Email:	prahmatdoost@slb.com
Correspondent Name:	Schlumberger Technology Corporation
Address Line 1:	200 Gillingham Lane, MD 200-9
Address Line 2:	Office of IP Counsel
Address Line 4:	Sugar Land, TEXAS 77478
ATTORNEY DOCKET NUMBER:	92.1172
NAME OF SUBMITTER:	Jeremy P. Welch

Total Attachments: 6  
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**PATENT**  
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## ASSIGNMENT

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

**Demosthenis Pafitis**, citizen of United Kingdom, whose post office address is 21 Portugal Street, Cambridge CB5 8AW UK

**Jahir Pabon**, citizen of the U.S.A., whose post office address is 48 Hollis Street, Unit 3H, Newton, MA 02458 USA

**Joachim Sihler** citizen of Germany, whose post office address is 6 Rutland Court, Douro Road, Cheltenham, Gloucestershire GL50 2PE UK

Has/have invented certain new and useful improvements in

### **DRILL BITS AND METHODS OF DRILLING CUREVED BOREHOLES**

as described and set forth in an application for Letters Patent of the United States of America, filed on the 9<sup>th</sup> day of September, 2009 (92.1172).

WHEREAS each of the undersigned persons warrants that no person other than these undersigned persons are inventors of the above-described invention;

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.

# ASSIGNMENT

## SCHEDULE A "COMPANIES"

### *SCHLUMBERGER CANADA LIMITED*

Corporation of: Canada

Located at: 525-3<sup>rd</sup> Avenue S.W., Calgary, Alberta, CA T2P 0G4

Assignee for applications in: Canada

### *SCHLUMBERGER TECHNOLOGY CORPORATION*

Corporation of: USA

Located at: 110 Schlumberger Drive, Sugar Land, TX 77478 US

Assignee for applications in: USA

### *SERVICES PETROLIERS SCHLUMBERGER*

Corporation of: France

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

Assignee for applications in: France

### *SCHLUMBERGER HOLDINGS LIMITED*

Corporation of: British Virgin Islands

Located at: PO Box 71, Craigmuir Chambers, Road Town, Tortola, BVI

Assignee for applications in: Japan, The Netherlands, Saudi Arabia, 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, Azarbaijan, Brunei, Bulgaria, Colombia, Czech Republic, Denmark, Faroe Islands, Germany, Greece, Hungary, Indonesia, Ireland, Israel, Italy, Kazakhstan, Korea, Kuwait, Lithuania, Malaysia, Mexico, New Zealand, Norway, Oman, Pakistan, Poland, Qatar, Romania, Russia, Slovakia, Slovenia, South Africa, Thailand, Trinidad, Tunisia, Turkey, Turkmenistan, Ukraine, Uzbekistan, Venezuela

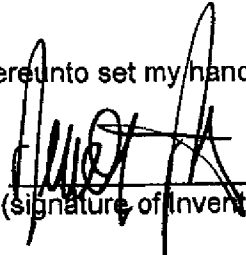
### *PRAD RESEARCH AND DEVELOPMENT LIMITED*

Corporation of: British Virgin Islands

Located at: PO Box 71, Craigmuir Chambers, Road Town, Tortola, BVI

Assignee for applications in: the GCC Patent Office and Countries not Otherwise Listed

IN WITNESS WHEREOF, I, **Demosthenis Pafitis**, have hereunto set my hand and seal this 14 day of SEPTEMBER, 2009.

  
(signature of inventor)

WITNESSED:

BE IT KNOWN that **Demosthenis Pafitis** is to me known to be the individual described in the foregoing assignment, that on this 14 day of SEPTEMBER, 2009, 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.

Ruth Jeffers  
Witness

Schlumberger

110 Schlumberger Dr.

Sugar Land, TX

77478

Post Office Address

Maagie Cananza  
Witness

Schlumberger

110 Schlumberger Dr.

Sugar Land, TX

77478

Post Office Address

IN WITNESS WHEREOF, I, Jahir Pabon, have hereunto set my hand and seal this 14 day of September, 2009.

Jahir Pabon  
(signature of Inventor)

(L. S.)

State of Massachusetts

County of Middlesex

BEFORE ME this 14<sup>th</sup> day of September, 2009, personally appeared Jahir Pabon, 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.

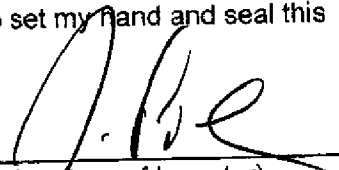
Barbara Kilfoyle  
Notary Public

SEAL



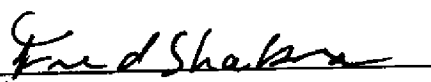
Barbara Kilfoyle  
Notary Public  
Commonwealth of Massachusetts  
My Commission Expires  
June 20, 2014

IN WITNESS WHEREOF, I, Joachim Sihler, have hereunto set my hand and seal this  
25 day of FEBRUARY, 2010.

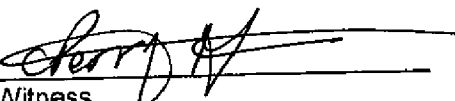
  
(signature of Inventor)

WITNESSED:

BE IT KNOWN that Joachim Sihler is to me known to be the individual described in the foregoing assignment, that on this 25<sup>th</sup> day of FEBRUARY, 2010, 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.

  
Witness

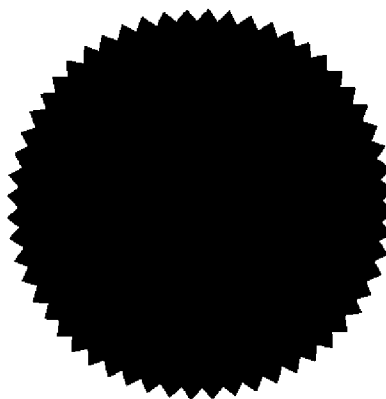
FRED SHAKRA  
3 SWANSCOMBE PLACE  
CHELTENHAM, ENGLAND  
GL51 3YE  
Post Office Address

  
Witness

Christelle Fern Fouda  
31 Brookbank Close  
GL50 3NN  
Cheltenham  
Post Office Address

I, PAUL NIGEL ENGELBRECHT Notary Public  
Hereby certify this document was signed before me  
Cheltenham, United Kingdom this 25<sup>th</sup> day of FEBRUARY 2010  
by JOACHIM SIHLER  
GERMAN PASSPORT - 6064 102058.  
As witness my hand and seal

  
PAUL NIGEL ENGELBRECHT  
NOTARY PUBLIC, CHELTENHAM, UNITED KINGDOM



MY COMMISSION EXPIRES ON DEATH