### 502680435 02/14/2014

#### PATENT ASSIGNMENT COVER SHEET

∥ NEW ASSIGNMENT

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SUBMISSION TYPE:

Correspondent Name:

Address Line 1:

Address Line 2: Address Line 4:

EPAS ID: PAT2727042

NATURE OF CONVEYANCE:			ASSIGNMENT			
CONVEYING PART	Y DATA					
Name				Execution Date	]	
COLIN DALY				05/16/2013		
DANIEL M. TETZLAFF					04/26/2013	
RECEIVING PARTY	11					1
Name:	SCHLUMBERGER TECHNOLOGY CORPORATION					
Street Address:	300 SCHLUMBERGER DRIVE					
City:	SUGAR LAND					
State/Country:	TEXAS					
Postal Code:	77478					
PROPERTY NUMBE	ERS Total: 1					
Property Type			Number			
Application Number:		13686948				
CORRESPONDENC	CE DATA					
Email: kdumas-scarber@slb.com						

ATTORNEY DOCKET NUMBER: IS11.0698-US-NP

NAME OF SUBMITTER: KRISTINE DUMAS-SCARBER

Signature: /Kristine Dumas-Scarber/

Date: 02/14/2014

Correspondence will be sent via US Mail when the email attempt is unsuccessful.

**ROOM 4720** 

KRISTINE DUMAS-SCARBER 10001 RICHMOND AVENUE

HOUSTON, TEXAS 77042

PATENT 502680435 REEL: 032216 FRAME: 0622

## Total Attachments: 5

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PATENT REEL: 032216 FRAME: 0623

## **Assignment**

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

**Colin Daly**, a citizen of Ireland, residing at 10 Arc Court, Friern Barnet Road, London, N11 1PT, UK:

and

**Daniel M. Tetzlaff**, a citizen of the United States of America, residing at 9538 Beverlyhill Street, Houston, TX 77063, USA;

Have invented certain new and useful improvements in

#### ROTATIONS FROM GRADIENT DIRECTIONS

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 November 28, 2012, Serial No. 13/686948, (Docket No. IS11.0698-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 Effective as of November 28, 2012, 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,

1

PATENT REEL: 032216 FRAME: 0624 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.

2

IN WITNESS WHEREOF I, Colin Daly, have day of, 2013.	hereunto set my hand and seal this
assignment that on this 16 day of	vn to be the individual described in the foregoing $(AA)$ , 2013, I was personally present assignment; and, that he did acknowledge to me ed for the uses and purposes therein set forth.
Louis Sen C Witness Signature	Witness/Signature
DAVID PSATLA	DAVID MARQUEZ Printed Name
Printed Name  133 SEXFORD RD.	JOCOB ADUSCETE 9C
EALING LONDON WIS 9HS	6368 65to
Post Office Address	Post Office Address

IN WITNESS WHEREOF I, Daniel M. Tetzlaff, have 26th day of April, 2013.	hereunto set my hand and seal this					
·	Daniel M. Tetzlaff Daniel M. Tetzlaff					
	Daniei M. Terziair					
STATE OF TEXAS						
COUNTY OF HARRIS						
BEFORE ME this day of April , 2013, personally appeared <b>Daniel M.</b> Tetzlaff, 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.						
PATTI L. THOMPSON Notery Public, State of Texas My Commission Expires April 10, 2014	Notary Public					

# Schedule A "COMPANIES"

Schlumberger Technology Corporation, a corporation duly organized, incorporated and existing under the laws of the State of Texas and having a place of business at 300 Schlumberger Drive, Sugar Land, Texas 77478 United States of America

as assignee for the United States

**Schlumberger Canada Limited**, a corporation duly organized, incorporated and existing under the laws of Canada and having a place of business at 525 – 3rd Ave. S.W., Calgary, Alberta, Canada T2P 0G4 as assignee for Canada

Services Petroliers Schlumberger, a corporation duly organized, incorporated and existing under the laws of France and having a place of business at 42, rue Saint Dominique, 75007 Paris, France as assignee for France

**Logined B.V.**, a corporation duly organized, incorporated and existing under the laws of the Netherlands and having a place of business at Gevers Deynootweg 61, 2586 BJ S Gravenhage, The Netherlands

as assignee for Albania, Algeria, Argentina, Australia, Austria, Azerbaijan, Bahrain, Brunei, Brazil, Bulgaria, Cameroon, Colombia, Czech Republic, Denmark, Ecuador, Egypt, Eurasia, EPO, Faroe Islands, Gabon, Germany, Great Britain, Greece, Gulf Cooperation Council, Hungary, Indonesia, Ireland, Israel, Italy, Japan, Kazakhstan, Korea, Kuwait, Libya, Lithuania, Malaysia, Mexico, Myanmar, Netherlands, New Zealand, Norway, Oman, Pakistan, Poland, Portugal, Qatar, Romania, Russia, Saudi Arabia, Slovakia, Slovenia, South Africa, Spain, Thailand, Trinidad, Tunisia, Turkey, Turkmenistan, Ukraine, United Arab Emirates, Uzbekistan, Venezuela and Yemen.

**PRAD Research and Development Limited**, a corporation organized and existing under and by the laws of the British Virgin Islands, having a place of business at P.O. Box 71, Craigmuir Chambers, Road Town, Tortola, British Virgin Islands

as assignee for all other countries not designated above.

RECORDED: 02/14/2014

PATENT REEL: 032216 FRAME: 0628