PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Roberto Suarez-Rivera	06/30/2010
Dean M. Willberg	06/29/2010
Timothy M. Lesko	05/27/2010
Marc Jean Thiercelin	05/28/2010

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:	13515229

CORRESPONDENCE DATA

 Fax Number:
 7136892219

 Phone:
 719-689-6265

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 lgoldsmith@slb.com

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

via US Mail.

Correspondent Name: SCHLUMBERGER TECHNOLOGY CORPORATION

Address Line 1: 10001 Richmond Avenue
Address Line 2: IP Center of Excellence
Address Line 4: Houston, TEXAS 77042

ATTORNEY DOCKET NUMBER:	114.0019-US-PCT
NAME OF SUBMITTER:	Leslie Goldsmith

PATENT

REEL: 028942 FRAME: 0455

CH \$40.00

Total Attachments: 7

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PATENT REEL: 028942 FRAME: 0456

Assignment

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

Roberto Suarez-Rivera, a citizen of USA, residing at 2212E Melodie Ann Way, Salt Lake City, UT 84124, USA;

Dean Michael Willberg, a citizen of Canada, residing at 10548 East Cerulean Way, Tucson AZ, 85747, USA;

Timothy M. Lesko, a citizen of USA, residing at 2032 E. Branch Hollow Drive, Carrollton, TX, 75007, USA; and

Marc J. Thiercelin, a citizen of France, residing at 6908 Vineridge Drive, Dallas, TX 75248, USA

Have invented certain new and useful improvements in

METHOD FOR INCREASING FRACTURE AREA, DURING HYDRAULIC FRACTURING, AND ENHANCED HYDROCARBON PRODUCTION

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 December 9, 2009, Application No. 61/282,061, (Docket No.114.0019US PSP).

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

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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.

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IN WITNESS WHEREOF I, Roberto Succer-Rive hereunto set my hand and seal this	(Roberto Suarez-Rivera) have day of, 2010.
	Que Com
	(Roberto Suarez-Rivera)
STATE OF	-
COUNTY OF	- D wer a
BEFORE ME this day of dune, 2010, personal known to be the person who is described in and who executes the superpose therein expressed.	ally appeared Roberto Suarez-, to me uted the foregoing assignment same of his own free will for the
Notary Public LINDA SUE THOMAS Commission #579922 Sely Commission Expires August 7, 2013 State of Little	Lorda Su Mma

IN WITNESS WHEREOF I, Den Muchael Williams hereunto set my hand and seal this	(Dean Michael Willberg) have day of, 2010.
	(Dean Michael Willberg)
STATE OF Utah	
COUNTY OF Salt Lake	_
BEFORE ME this 21 day of June, 2010, personal known to be the person who is described in and who executes instrument and acknowledged to me that he executed the spurpose therein expressed.	uted the foregoing assignment
Notery Public LINIDA SUE THOMAS Commission #579922 Sycarmission Expires August 7, 2819	Luda Jumas_

IN WITNESS WHEREOF I, Timethy M. LESko hereunto set my hand and seal this 27	(Timothy M. Lesko) have day of, 2010.
	(Timothy M. Lesko)
STATE OF TOXAS	
COUNTY OF Dallas	
BEFORE ME this 2014 May of May , 2010, personal known to be the person who is described in and who executinstrument and acknowledged to me that he executed the spurpose therein expressed.	ted the foregoing assignment
Seal	Dusp Marie algande Notary Public

Denise Marie Alexander Notary Public, State of Texas My Commission Expires: July 27, 2010

IN WITNESS WHEREOF I, MARC THERCELIA hereunto set my hand and seal this 2815	<u>/ (Marc J. Thiercelin)</u> have day of <u>∭ ay</u> , 2010.
	(Marc J. Thiercelin)
STATE OF TEXAS	<u>-</u>
COUNTY OF DALLAS	_
BEFORE ME this and day of May , 2010, person known to be the person who is described in and who executed the purpose therein expressed.	nally appeared Make Thierce, to me uted the foregoing assignment same of his own free will for the
Seal Denise Marie Alexander	Notary Public Marie Wee
Notary Public, State of Texas My Commission Expires: July 27, 2010	

Schedule A "COMPANIES"

SCHLUMBERGER TECHNOLOGY CORPORATION

<u>Corporation of:</u> United States of America (Texas) <u>Located at:</u> 300 Schlumberger Drive, Sugar Land, Texas 77478 U.S.A. Assignee for applications in: United States of America

SCHLUMBERGER CANADA LIMITED

<u>Corporation of:</u> Canada (Ontario) <u>Located at:</u> 525-3rd Avenue S.W., Calgary, Alberta, Canada T2P 0G4 Assignee for applications in: Canada

SERVICES PETROLIERS SCHLUMBERGER

<u>Corporation of:</u> France <u>Located at:</u> 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, Tortola, British Virgin Islands
Assignee for applications in: Japan, Netherlands, Netherlands Antilles, UK, Saudi Arabia

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, Azerbaijan, Brunei, Bulgaria, Chad, Colombia, Czech Republic, Denmark, Equatorial Guinea, Faroe Islands, Germany, Greece, Hungary, Indonesia, Ireland, Israel, Italy, Kazakhstan, Korea, Kuwait, Lithuania, Malaysia, Mexico, Myanmar, New Zealand, Norway, Oman, Pakistan, Poland, Qatar, Romania, Russia, Slovakia, Slovenia, South Africa, Thailand, Trinidad, Tunisia, Turkey, Turkmenistan, Uzbekistan, Venezuela

PRAD RESEARCH AND DEVELOPMENT LIMITED

<u>Corporation of:</u> the British Virgin Islands <u>Located at:</u> P.O. Box 71, Craigmuir Chambers, Road Town, Tortola, British Virgin Islands Assignee for applications in: Countries not Otherwise Listed

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PATENT REEL: 028942 FRAME: 0463