

PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

EPAS ID: PAT4389997

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
HUI ZHOU	12/17/2014
WEIBIA ZHA	12/17/2014
JAY PAUL DEVILLE	12/17/2014
RECEIVING PARTY DATA	
Name:	HALLIBURTON ENERGY SERVICES, INC.
Street Address:	3000 N. SAM HOUSTON PARKWAY E.
City:	HOUSTON
State/Country:	TEXAS
Postal Code:	77227-2188
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15522710
CORRESPONDENCE DATA	
Fax Number:	(713)622-0220
<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>	
Phone:	713-622-7005
Email:	ctumey@tumeyllp.com
Correspondent Name:	COREY TUMEY
Address Line 1:	P.O BOX 22188
Address Line 4:	HOUSTON, TEXAS 77227-2188
ATTORNEY DOCKET NUMBER:	2013-IP-083390U1 US
NAME OF SUBMITTER:	COREY S. TUMEY
SIGNATURE:	/Corey Tumey/
DATE SIGNED:	04/28/2017
Total Attachments: 5	
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ASSIGNMENT

WHEREAS, Hui Zhou, Weibin Zha and Jay Paul Deville (hereinafter the "Undersigned") have made one or more inventions and other subject matter (hereinafter collectively referred to as the "Invention") which are described in a patent application filed on December 22, 2014, which application was assigned PCT patent application serial number PCT/US2014/071801, and which is titled CROSSLINKED POLYMERS INCLUDING SULFONIC ACID GROUPS OR SALTS OR ESTERS THEREOF AS VISCOSIFIERS AND FLUID LOSS ADDITIVES FOR SUBTERRANEAN TREATMENT.

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency, and adequacy of which are hereby acknowledged by the Undersigned, the Undersigned do hereby irrevocably and unconditionally:

CONVEY, ASSIGN, AND TRANSFER to Halliburton Energy Services, Inc. (the "Assignee"), a corporation of the State of Delaware, having a place of business at 3000 N. Sam Houston Parkway E., Houston, TX 77032-3219, the Undersigned's entire right, title, and interest for the United States and all foreign countries and jurisdictions in and to:

the Invention which is disclosed in the above-identified application or applications;

such application or applications, and all divisional, continuing (including continuation-in-part), substitute, renewal, reissue, and all other applications for a patent or patents which have been or shall be filed in the United States (including all provisional and non-provisional applications), and in all foreign countries and jurisdictions based in whole or in part on any of such Invention (including any application for a utility model or an innovation patent application);

all original and reissued patents which have been or shall be issued in the United States and all foreign countries and jurisdictions based in whole or in part on any of such Invention;

including the right to claim priority to the above-identified patent application or applications in relation to subject matter based in whole or in part on the above-identified patent application or applications and any of the foregoing including the right to file foreign applications under the provisions of any convention or treaty;

and including the right to all causes of action, remedies, and other enforcement rights related to the above-identified application or applications, including without limitation the right to sue for past, present, or future infringement, misappropriation, or violation of any and all rights related to the above-identified patent application or applications and any of the foregoing, including the right to obtain and collect damages for past, present, or future infringement;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such Invention to the Assignee;

AUTHORIZE AND REQUEST that any attorney associated with U.S. Patent and Trademark Office (USPTO) Customer No. 46042 may (directly or through his/her designee) delete, insert, or alter any

information related to the above-identified patent application or applications or any of the foregoing, after execution of this Assignment;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or shall be made to others by the Undersigned, and that the full right to convey the same as herein expressed is possessed by the Undersigned;

COVENANT, that when requested and without compensation, but at the expense of the Assignee, in order to carry out in good faith the intent and purpose of this Assignment, the Undersigned shall (1) execute all provisional, non-provisional, divisional, continuing (including continuation-in-part), substitute, renewal, reissue, and all other patent applications for the Invention; (2) execute all rightful oaths, declarations, assignments, powers of attorney and other papers for the Invention; (3) communicate to the Assignee all facts known to the Undersigned relating to the Invention and the history thereof; (4) cooperate with the Assignee in any interference, reexamination, reissue, opposition, dispute, or litigation involving any of the applications or patents for the Invention; and (5) take such further actions as the Assignee shall reasonably consider necessary or desirable for vesting title to such Invention in the Assignee, or for securing, maintaining and enforcing proper patent protection for the Invention;

COVENANT, that should any provision of this agreement be held unenforceable by an authority of competent jurisdiction, such a ruling shall not affect the validity and enforceability of the remaining provisions. To the extent that any such provision is found to be unenforceable, the Undersigned, when requested and without compensation shall act in good faith to substitute for such provision a new provision with content and purpose as close as possible to the provision deemed unenforceable.

THIS AGREEMENT IS TO BE BINDING on the heirs, assigns, representatives, and successors of the Undersigned, and is to extend to the benefit of the successors, assigns, and nominees of the Assignee.

AGREED as of the date of my signature below:

Assignment

Docket No: 1220.790WO1

Assignors: Hui Zhou et al.

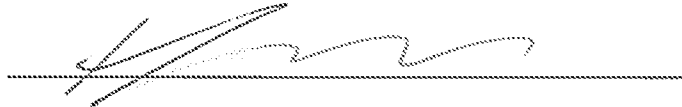
Client Ref. No. 2013-IP-083390 U1 PCT/E-Billing 2013-IPRO-083390

Title: CROSSLINKED POLYMERS INCLUDING SULFONIC ACID GROUPS OR SALTS OR ESTERS THEREOF AS VISCOSIFIERS
AND FLUID LOSS ADDITIVES FOR SUBTERRANEAN TREATMENT

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Assignor:

(Signature):



Name: Hui Zhou

City/State: The Woodlands, TX

Date:

12/17/2014

Assignment

Assignors: Hui Zhou et al.

Docket No: 1880.790WO1

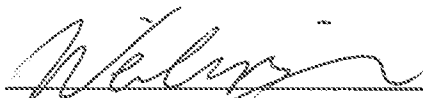
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Assignor:

(Signature):



Name: Weibin Zha

City/State: The Woodlands, TX

Date:

12/17/2014

Assignment

Assignors: Hui Zhou et al.

Docket No: 1880.790WO1

Client Ref. No. 2013-IP-083390 U1 PCT/E-Billing 2013-IPRO-083390

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Assignor:

(Signature):

Jay Paul Deville

Name: Jay Paul Deville

City/State: Spring, TX

Date:

December 17, 2014