

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	PAUL D. RINGGENBERG	11/21/2022
RECEIVING PARTY DATA		
Name:	HALLIBURTON ENERGY SERVICES, INC.	
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City:	HOUSTON	
State/Country:	TEXAS	
Postal Code:	77032-3219	
PROPERTY NUMBERS Total: 1		
Property Type	Number	
Application Number:	18070874	
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ATTORNEY DOCKET NUMBER:	2022-INV-111254US01 49300	
NAME OF SUBMITTER:	RODNEY B. CARROLL	
SIGNATURE:	/Rodney B. Carroll/	
DATE SIGNED:	11/29/2022	
Total Attachments: 3		
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DECLARATION AND ASSIGNMENT

DOCKET NUMBER: 2022-INV-111254-US01
TITLE: FLUIDIC DIODE OPERATED AUTOFILL VALVE

As an inventor, I declare that:

This declaration is directed to the patent application(s) accompanying this declaration and assignment. The patent application(s) accompanying this Declaration and Assignment is referred to as the "Application." The term "Invention" means any disclosure, invention, improvement, or discovery disclosed in the Application.

I affirm the following:

- 1) the Application was made or authorized to be made by me;
- 2) I believe that I am the original inventor or an original joint inventor of a claimed Invention;
- 3) I have reviewed and understand the content of the Application, including the claims;
- 4) I am aware that I have a duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined by 35 U.S.C. §1.56(b); and
- 5) I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

FURTHERMORE, the undersigned hereby assigns or has assigned, and hereby transfers or has transferred to **Halliburton Energy Services, Inc.**, a Delaware corporation having a principal place of business at 3000 N. Sam Houston Parkway E., Houston, TX 77032-3219, and any of its successors, legal representatives, and assignees the entire worldwide right, title, and interest in and to the Invention, the Application, and any and all other patent applications and patents for the Invention which may be applied for or granted therefrom in the United States and in all foreign countries and jurisdictions, including all continuing applications (i.e., divisionals, continuations, continuations-in-part), reissues, reexaminations, renewals, extensions, counterparts, substitutes, and extensions thereof, and all rights of priority resulting from the filing of such applications and granting of such patents.

In addition, the undersigned authorizes and requests the Director of the United States Patent and Trademark Office to issue any United States Patent, and foreign patent authorities to issue any foreign patent, granted for the Invention, to **Halliburton Energy Services, Inc.**, its successors, legal representatives, and assignees, the entire worldwide right, title, and interest in and to the same to be held and enjoyed by **Halliburton Energy Services, Inc.**, its successors, legal representatives, and assignees to the full end of the terms for which any and all such patents may be granted, as fully and entirely as would have been held and enjoyed by the undersigned had this Assignment not been made.

The undersigned also agrees to execute any and all documents and instruments and perform all lawful acts reasonably related to recording this Assignment or perfecting title to the Invention and all related patents and applications, for **Halliburton Energy Services, Inc.**, its successors, legal representatives, and assignees, whenever requested by **Halliburton Energy Services, Inc.**, its

successors, legal representatives, or assignees.

The undersigned further agrees to: (a) cooperate with **Halliburton Energy Services, Inc.**, in the protection of the Invention and prosecution of domestic and foreign patent applications claiming the Invention; (b) execute, verify, acknowledge and deliver further documents, including patent applications and instruments of transfer; and (c) perform such other acts as **Halliburton Energy Services, Inc.**, lawfully may request to obtain or maintain any patent arising from the Application and any and all applications and registrations for the Invention in any and all countries.

The undersigned acknowledges any prior and ongoing obligations to sell, assign, and transfer the rights under this Assignment to **Halliburton Energy Services, Inc.**, and possesses the full and unencumbered right to assign and transfer the rights hereby assigned, and transferred. The undersigned has not executed, and will not execute, any document or instrument in conflict with this Assignment. The undersigned also hereby grants **Halliburton Energy Services, Inc.**, its successors, legal representatives, and assignees, the right to insert in this Assignment any further identification (including, but not limited to, the Application) which may be necessary or desirable for recordation of this Assignment. This Assignment is governed by the substantive laws of the State of Texas, and any disputes will be resolved in a Texas state court or federal court sited in Texas.

Assignor: Paul D. RINGGENBERG

(Signature):

A handwritten signature in black ink, appearing to read 'Paul D. Ringgenberg', written over a horizontal line.

Name: PAUL D. RINGGENBERG

City/State: FRISCO, TX

Date:

21 NOV 2022