505918592 02/14/2020

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5965309

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
EDWARD HARRIGAN	02/14/2020

RECEIVING PARTY DATA

Name:	HALLIBURTON ENERGY SERVICES, INC.	
Street Address:	3000 N. SAM HOUSTON PARKWAY E.	
City:	HOUSTON	
State/Country:	TEXAS	
Postal Code:	77032-3219	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16791706

CORRESPONDENCE DATA

Fax Number: (972)480-8865

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.

Phone: 972-480-8800

Email: docket@pj-iplaw.com

Correspondent Name: HALLIBURTON ENERGY SERVICES, INC. C/O PA

Address Line 1: 14241 DALLAS PARKWAY

Address Line 2: **SUITE 620**

Address Line 4: DALLAS, TEXAS 75254

ATTORNEY DOCKET NUMBER:	2019-103280 U1 US	
NAME OF SUBMITTER:	GREG H. PARKER	
SIGNATURE:	/Greg H. Parker/	
DATE SIGNED:	02/14/2020	

Total Attachments: 2

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> **PATENT REEL: 051825 FRAME: 0470**

505918592

DOCKET NO: 2019-103280 U1 US

PATENT

ASSIGNMENT

For valuable consideration, I, Edward Harrigan, a resident of Richmond, TX, hereby, assign to Halliburton Energy Services, Inc., a corporation of Delaware, having a place of business at 3000 N. Sam Houston Parkway E., Houston, Texas 77032-3219, U.S.A., and its successors, assigns (collectively hereinafter called "the Assignee), the entire right, title and interest throughout the world in the inventions and improvements which are subject of a PCT Application entitled "DOWNHOLE TOOL INCLUDING A HELICALLY WOUND STRUCTURE" this assignment including said application, any and all United States and foreign applications and patents, utility models, and design registrations for any of said inventions or improvements; and the right to claim priority based on the filing date of said application under all treaties; and I hereby authorize the Assignee to apply in all countries in my name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and I agree for myself and my respective heirs, legal representatives and assign, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

> PATENT REEL: 051825 FRAME: 0471

Edward Harrigan

In the State of Texas

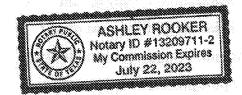
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In the County of _

Hams &

On this Wh, day of February, 2020, before me personally came Edward Harrigan, to me known to be the individual described herein and who executed the foregoing instrument and acknowledged execution of the same.

Notary Public in and for the State of Texas



PATENT REEL: 051825 FRAME: 0472

RECORDED: 02/14/2020