# 504322812 04/14/2017

# PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
ELIAS DA CONCEIÇÃO RODRIGUES	11/25/2014
FLÁVIO HENRIQUE MARCHESINI	11/25/2014
RAFAEL MENEZES OLIVEIRA	11/25/2014

### **RECEIVING PARTY DATA**

Name:	HALLIBURTON ENERGY SERVICES, INC.	
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State/Country:	TEXAS	
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### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	15519476

### **CORRESPONDENCE DATA**

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NAME OF SUBMITTER: SUSAN STEWART		
SIGNATURE: /Susan Stewart/		
DATE SIGNED:	04/14/2017	

## **Total Attachments: 4**

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> PATENT REEL: 042017 FRAME: 0228

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#### ASSIGNMENT

Whereas, I/We Elias DaConceicao Rodrigues of Rio de Janeiro, Brazil; Flavio Henrique Marchesini of Rio de Janeiro, Brazil, and Rafael Menezes Oliveira of Rio de Janeiro, Brazil, have invented "OPTIMIZING HYDRAULIC FRACTURING IN A SUBTERRANEAN FORMATION" for which we have made application for Letters Patent of the International Bureau; and

Whereas, HALLIBURTON ENERGY SERVICES, INC., a Delaware Corporation, having a place of business at 3000 N. Sam Houston Parkway E., Houston, Texas 77032-3219 is desirous of acquiring an interest therein;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I/We, by these presents do sell, assign and transfer and convey unto HALLIBURTON ENERGY SERVICES, INC., its successors and assigns, the full and exclusive right, for the United States of America and its territorial possessions and for any and all foreign countries, in and to the said invention, described in the Patent Application, and any divisional, continuing or reissue application based on the present application preparatory to obtaining Letters Patent of the United States therefor; said invention, application and any and all Letters Patent issuing therefor to be held and enjoyed by HALLIBURTON ENERGY SERVICES, INC., for its own use and behoof, and for its legal representatives, successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me and had this assignment and sale not been made.

And I do further agree to sign all papers, make all rightful oaths and do all requisite acts for the filing of any disclaimer or for the filing and assignment of any divisional, continuing or reissue application or applications for patent based on the present application, as well as for any other U.S. or foreign application for patent which relates to the said invention.

And I do further agree to communicate to HALLIBURTON ENERGY SERVICES, INC., its successors, assign or other legal representatives, such facts relating to the invention disclosed in the present application or Letters Patent issuing thereon as may be known to me, and to testify as to such facts in any interference or other litigation.

1 of 1

Signature: Signature: Signature: Filas Da Conceicao Rodrigues		
Date:	/14	
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	PEDRO CHIRA . Witness Printed Name	
Date: 25 Nov	2014 Stamman Control Witness	
	TUAN P. LUZARDO Witness Printed Name	

Docket No. 063718.3390 HES 2014-IP-093022 U1 PCT

Signature.	avio Henrique Marchesini	
Date: 11/25/2014		
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Date: 25 Nov :	2014 Witness	
	W IUICSS /	
	JUAN P. (UZARIY)	

Witness Printed Name

Signature: Kolon Muy Name: Rafael Menezes	Oliveira Oliveira
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, ,	Witness
	PENRO CHIPIS
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Date: 25 May. 2014	Witness
	Witness
	JUAN P. (JEANSO Witness Printed Name
	Witness Printed Name