504027185 09/28/2016

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4073844

| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|-----------------------|----------------|
| SCOTT WENDORF | 07/25/2014 |
| WILLIAM MARK RICHARDS | 06/09/2014 |
| SYED HAMID | 06/09/2014 |
| PAUL F. RODNEY | 07/18/2014 |

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: | 15300181 |

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: P.O. BOX 832570

Address Line 4: RICHARDSON, TEXAS 75083

| ATTORNEY DOCKET NUMBER: | 2013-075989U1US |
|-------------------------|------------------|
| NAME OF SUBMITTER: | GREG H. PARKER |
| SIGNATURE: | /Greg H. Parker/ |
| DATE SIGNED: | 09/28/2016 |

Total Attachments: 5

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PATENT 504027185 REEL: 039880 FRAME: 0117

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PATENT REEL: 039880 FRAME: 0118

ASSIGNMENT

For valuable consideration, we, Scott Wendorf, of Dallas, Texas, William Mark Richards, of Flower Mound, Texas, Syed Hamid, of Dallas, Texas, and Paul F. Rodney, of Spring, Texas, hereby assign to Halliburton Energy Services, Inc., a Delaware corporation having a place of business at Houston, Texas, and its successors and 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 **SUBTERRANEAN** MONITORING USING ENHANCED VIDEO, filed April 30, 2014, and assigned PCT Serial Number PCT/US2014/036192, 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 we hereby authorize the Assignee to apply in all countries in our 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 we agree for ourselves and our respective heirs, legal representatives and assigns, 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: 039880 FRAME: 0119

STATE OF TEXAS

COUNTY OF **ORLLAS**

On the 15 kday of 1914, before me, the undersigned notary public, personally appeared 1914, known to me to be the person whose

name is subscribed on the foregoing instrument.

DEBBIE VITRO Notary Public, State of Texas My Commission Expires February 26, 2017 DEBBIE VITRO My Commission Expires February 26, 2017

Notary Public, State of Texas

Attorney's Docket No.: 17604-0123WO1 / 2013-IP-075989 U1 PCT (2013-IPRO-075989)

JANE ELLEN CLARK
Notary Public, State of Texas
My Commission Expires
October 28, 2014

| William Mark Richards DATE: Some 9, 7014 William Mark Richards |
|---|
| STATE OF TEXAS § COUNTY OF 14/45 § |
| On the Oth day of June. , 2014, before me, the undersigned notary public, personally appeared Mark Richards, known to me to be the person whose name is subscribed on the foregoing instrument. |
| Notary Public, State of Texas |

Assignment Page 3 of 5

Attorney's Docket No.: 17604-0123WO1 / 2013-IP-075989 U1 PCT (2013-IPRO-075989)

| Syed Hamid DATE: 6-9-2014 |
|--|
| STATE OF TEXAS § COUNTY OF Dallas § |
| On the O day of June, 2014, before me, the undersigned notary public, personally appeared Sued Hamid, known to me to be the person whose name is subscribed on the foregoing instrument. |
| Notary Public, State of Texas |

Pala. Rober DATE: 18/14 STATE OF TEXAS §
COUNTY OF 4 \$ STATE OF TEXAS On the A day of July July , before me, the undersigned notary public, personally appeared , known to me to be the person whose name is subscribed on the foregoing instrument. My Commission Expires
April 21, 2018

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RECORDED: 09/28/2016

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