# 505558924 07/05/2019

# PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
RICHARD THOMAS HAY	01/06/2011

### **RECEIVING PARTY DATA**

Name:	HALLIBURTON ENERGY SERVICES, INC.	
Street Address:	10200 BELLAIRE BLVD.	
City:	HOUSTON	
State/Country:	TEXAS	
Postal Code:	77072	

### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	16503852

### **CORRESPONDENCE DATA**

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ATTORNEY DOCKET NUMBER:	7523.1720US03	
NAME OF SUBMITTER:	DELAUNDA N. LANFORD	
SIGNATURE:	/Delaunda N. Lanford/	
DATE SIGNED:	07/05/2019	

## **Total Attachments: 3**

source=7523.1720US03 Assignment#page1.tif source=7523.1720US03 Assignment#page2.tif source=7523.1720US03 Assignment#page3.tif

PATENT 505558924 REEL: 049676 FRAME: 0549

#### ASSIGNMENT

WHEREAS, I, <u>Richard Thomas Hay</u>, residing at 24915 Corbin Gate Dr., Spring, TX 77389, made certain new and useful inventions and improvements which are described in an application for U.S. Letters Patent on <u>December 14, 2010</u>, which application was assigned U.S. patent application serial number <u>61/422,858</u>, and is entitled <u>LOSSY TUNNELING EM TELEMETRY IN A WORK STRING METHOD AND APPARATUS;</u>

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and adequacy of which are hereby acknowledged, the undersigned do hereby:

SELL, ASSIGN AND TRANSFER to Halliburton Energy Services, Inc. (the "Assignee"), a corporation of the State of Delaware, having a place of business at 10200 Bellaire Blvd, Houston, TX 77072, the entire right, title and interest for the United States and all foreign countries in and to: any and all inventions and improvements which are disclosed in the identified application for U.S. Letters Patent, and which may be further identified below; such application and all divisional, continuing, substitute, renewal, reissue and all other applications for patent which have been or shall be filed in the United States (including all provisional and non-provisional applications), and in all foreign countries on any of such inventions and/or improvements (including any applications for utility models); all original and reissued patents which have been or shall be issued in the United States and all foreign countries on such inventions and/or improvements; and specifically including the right to file foreign applications under the provisions of any convention or treaty and to claim priority based on the identified application;

AUTHORIZE AND REQUEST that any attorney associated with U.S. PTO Customer No. 21186 may (directly or through his/her designee) delete, insert, or alter any information identifying this application, or any related application, below, after execution of this Assignment;

#### Additional Application Information

No Provisional claim for priority is being made at this time.

No U.S. Non-Provisional claim for priority is being made at this time.

No International or foreign claim for priority is being made at this time.

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

PATENT REEL: 049676 FRAME: 0550 ASSIGNMENT Client Ref. No. Docket: 2010-IP-030883/EBilling: 2010-IPRO-030883

Assignors: Richard Thomas Hay Serial Number: 61/422,858

THE: LOSSY TUNNELING EM TELEMETRY IN A WORK STRING METHOD AND APPARATUS

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WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and/or property herein conveyed has been or will 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 will (1) execute all provisional, non-provisional, divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all such improvements; (2) execute all rightful oaths, declarations, assignments, powers of attorney and other papers; (3) communicate to the Assignee all facts known to the undersigned relating to such improvements 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 such improvements; and (5) take such further actions as the Assignee shall reasonably consider necessary or desirable for vesting title to such improvements in the Assignee, or for securing, maintaining and enforcing proper patent protection for such improvements;

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:

Dacket No: 1880,333PRV

ASSIGNMENT
Client Ref. No. Docket: 2010-IP-030883/EBilling: 2010-IPRO-030883

Assignors: Richard Thomas Hay
Serial Number: 61/422,858
Title: LOSSY TUNNELING EM TELEMETRY IN A WORK STRING METHOD AND APPARATUS
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IN TESTIMONY WHEREOF, I have hereunto set my hand this of day of

Zanuary (6, 2011).

Richard Thomas Hay

STATE OF TEXAS

)ss

COUNTY OF MAILERS

On this of day of January (2011) before me personally appeared

Richard Thomas Hay, to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

TAMMY S. BRZOZOWSKI Notary Public, State of Texas & My Commission Expires

May 17, 2013

PATENT REEL: 049676 FRAME: 0552

RECORDED: 07/05/2019