PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ANDREAS ELLMAUTHALER	02/07/2020
GLENN ANDREW WILSON	03/02/2020
JOHN L. MAIDA	02/05/2020

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:	17718493

CORRESPONDENCE DATA

Fax Number:

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.

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Correspondent Name: C. TUMEY LAW GROUP, PLLC - HES

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ATTORNEY DOCKET NUMBER:	1560-112402
NAME OF SUBMITTER:	JOHN ROSS FLYNT
SIGNATURE:	/rflynt/
DATE SIGNED:	04/12/2022

Total Attachments: 4

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PATENT 507228440 REEL: 059573 FRAME: 0864

ASSIGNMENT

Whereas, We, Andreas Elimauthaler of Houston, Texas, Glenn Andrew Wilson of Houston, Texas, and John L. Maida of Houston, Texas, ("ASSIGNORS"), have invented TOPSIDE DISTRIBUTED ACOUSTIC SENSING INTERROGATION OF SUBSEA WELLS WITH A SINGLE OPTICAL WAVEGUIDE, 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, United States of America (sometimes hereinafter called "ASSIGNEE"), is desirous of acquiring an interest therein,

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, We do hereby ASSIGN, SELL and CONVEY to said **Halliburton Energy Services**, **Inc.**, its successors and assigns, the entire right, title and interest throughout the world in and to:

- 1. Said invention in TOPSIDE DISTRIBUTED ACOUSTIC SENSING INTERROGATION OF SUBSEA WELLS WITH A SINGLE OPTICAL WAVEGUIDE,
- 2. United States Patent application on said invention, Application No. 16/806,930 , filed March 2, 2020 , entitled TOPSIDE DISTRIBUTED ACOUSTIC SENSING INTERROGATION OF SUBSEA WELLS WITH A SINGLE OPTICAL WAVEGUIDE, Halliburton Reference No. 2019-IPM-103713U1 US; (The undersigned hereby grant(s) the firm of C. Tumey Law Group, PLLC. of 1150 Clear Lake City Blvd., Suite 201, Houston, Texas 77062 the power to insert on this assignment any further identification, including the application number and filing date, which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document);
- 3. All applications for patent or like protection on said invention that have now been or may in the future be made by me or my legal representatives, including any continuation, continuation-in-part and any other utility applications that may be based on this invention, whether in the United States of America or in any other country or place anywhere in the world;
- 4. All patents and like protection that have now been or may in the future be granted on said invention to me or my legal representatives, whether in the United States of America or in any other country or place anywhere in the world;
- 5. All substitutions for and divisions, continuations, continuations-in-part, renewals, reissues, extensions, and the like of said applications and patents and like grants, including without limitation, those obtained or permissible under past, present and future laws and statutes;
- 6. All rights of action on account of past, present and future unauthorized use of said invention and for infringement of said patents and like protection;
- 7. The right in ASSIGNEE to file in its name applications for patents and like protection for said invention in any country or countries foreign to the United States; and

PATENT REEL: 059573 FRAME: 0865

All international rights of priority associated with said invention, applications, patents and like

Before me personally appeared said Andreas Ellmauthaler and acknowledged the foregoing instrument to be his free act and deed this Thday of Folgram, 2020.

(Notary)

Seal

8.

ASHLEY ROOKER
Notary ID #13209711-2
My Commission Expires
July 22, 2023

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Executed this $\frac{2^{N}}{2^{N}}$ day of $\frac{M}{2^{N}}$	
	Jul 2
STATE OF HOUSTON) SS COUNTY OF HAVY)	Glenn Andrew Wilson
Before me personally appeared said Glem be his free act and deed thisday of	a Andrew Wilson and acknowledged the foregoing instrument to Man 2020.

LINDA GAIL TONGBERG Notary ID #12566187-1 My Commission Expires April 18, 2022

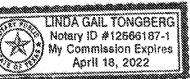
> PATENT REEL: 059573 FRAME: 0867

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Executed this	ay of	<u> </u>	2020	
			<u> </u>	
STATE OF	Texas)	John L. Maida	
COUNTY OF	Harris) ss)		

Before me personally appeared said John L. Maida and acknowledged the foregoing instrument to be his

Cant



free act and deed this Fday of February, 2020.

(Notary)

PATENT REEL: 059573 FRAME: 0868

RECORDED: 04/12/2022