

PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

EPAS ID: PAT5874038

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
HENRY CLIFFORD BLAND	12/18/2019
MIKKO JAASKELAINEN	12/03/2019
JOSHUA LANE CAMP	11/27/2019
TIRUMANI SWAMINATHAN	12/02/2019
ERIC JAMES DAVIS	12/02/2019
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:	16694825
CORRESPONDENCE DATA	
Fax Number:	(404)815-6555
<i>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.</i>	
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Address Line 2:	SUITE 2800
Address Line 4:	ATLANTA, GEORGIA 30309
ATTORNEY DOCKET NUMBER:	061429-1148194
NAME OF SUBMITTER:	TAMBRA WHITE
SIGNATURE:	/Tambra White/
DATE SIGNED:	12/18/2019
Total Attachments: 6	

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**ASSIGNMENT OF INTELLECTUAL PROPERTY RIGHTS
IN PATENT APPLICATION**

Whereas we, the undersigned inventors, have invented certain new and useful innovations as set forth in the patent application entitled:

VECTOR STRAIN SENSOR SYSTEM FOR A WELLBORE

the specification of which was filed with the U.S. Patent and Trademark Office on November 25, 2019, and assigned application no. 16/694,825.

For one dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which we acknowledge, we:

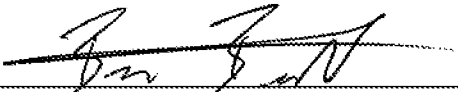
1. Agree to assign, transfer, convey, and sell, hereby assign, transfer, convey, and sell and have assigned, transferred, conveyed, and sold to Halliburton Energy Services, Inc., a corporation of the State of Delaware, having a principal place of business at 3000 N. Sam Houston Parkway E., Houston, Texas 77032-3219 ("Assignee"), the entire right, title, and interest in and to:
 - (a) all intellectual property (including, without limitation, any innovation, information, invention, discovery, product, process, work or design) disclosed, embodied, shown, or claimed in the above-referenced patent application, implicitly or explicitly;
 - (b) the above-referenced patent application, the right to claim priority to the above-referenced patent application, all applications based in whole or in part upon the above-referenced patent application, including, without limitation, all applications that are a provisional, non-provisional, design, divisional, continuation, continuation-in-part, registration, utility model, industrial design, reissue, renewal, substitute, extension, reexamination, post-grant review, inter partes review, supplemental examination or non-U.S. patent application or application for other rights based in whole or in part on the above-referenced patent application;
 - (c) all patents (including, without limitation, all U.S. and non-U.S. patents, registrations, utility models, industrial designs, design patents, counterparts, continuations, continuations-in-part, divisionals, reissues, renewals, substitutes, extensions, reexaminations, post-grant reviews, inter partes reviews and supplemental examinations) that are granted or issued upon, or that claim priority to, any and all applications described in (b) of this paragraph or that disclose or claim intellectual property described in (a) of this paragraph, in whole or in part; and

- (d) all claims for damages by reason of past infringement of any rights under the applications or patents described in (a), (b) or (c) of this paragraph (including provisional rights to reasonable royalties pursuant to 35 U.S.C. §154(d)) and the right to sue for and collect such damages and royalties for Assignee's own use.
2. Authorize and request the U.S. Patent and Trademark Office or any other U.S. or non-U.S. agency to issue to the Assignee any and all patent(s), or other rights or documents, resulting from the intellectual property, patent application(s) and patents described in paragraph 1 of this Assignment.
 3. Agree to sign all papers and documents, including without limitation, applications, declarations, oaths and petitions, and, at the Assignee's expense, perform any other acts that are necessary in connection with prosecution of patent application(s) or intellectual property described in paragraph 1 of this Assignment and the enforcement of patent(s) or other rights resulting from such patent application(s) or intellectual property.
 4. Agree that the terms, covenants, and conditions of this Assignment shall inure to the benefit of the Assignee, its successors, assigns and other legal representative, and shall be binding upon us, as well as our heirs, legal representatives, and assigns.
 5. Promise and affirm that we have not entered, and will not enter, into any assignment, contract, or understanding that conflicts with this Assignment.

Dated: Dec 18, 2019


Henry Clifford Bland

Witness Signature:



Witness Printed Name:

BEN BANACK

Address:

717 23 Avenue SE
CALGARY AB
T2G 1N7

Assignment of Intellectual Property Rights in Application

Patent Application Entitled: **Vector Strain Sensor System for a Wellbore**

Attorney Docket: 061429-1148194 (HES Ref: 2019-IPM-103261 U1 US)

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Dated: 12/3/2019

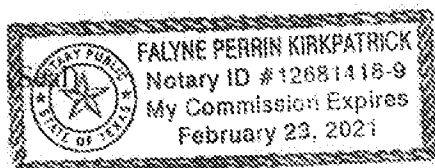


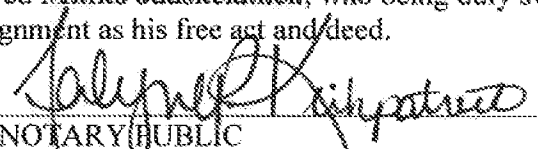
Mikko Jaaskelainen

STATE OF Texas

COUNTY OF Harris

Before me, a Notary Public in and for the State of Texas, on this 3rd day of December, 2019, personally appeared Mikko Jaaskelainen, who being duly sworn, signed and acknowledged the foregoing Assignment as his free act and deed.





NOTARY PUBLIC

My Commission Expires: 2/23/2021

Dated: 11/27/19

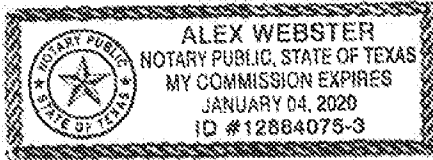
Joshua Lane Camp

STATE OF Texas
COUNTY OF Tarrant

Before me, a Notary Public in and for the State of Texas, on this 25th day of November, 2019, personally appeared Joshua Lane Camp, who being duly sworn, signed and acknowledged the foregoing Assignment as his free act and deed.

Alex Webster

(Seal)



NOTARY PUBLIC
My Commission Expires:

Assignment of Intellectual Property Rights in Application

Patent Application Entitled: Vector Strain Sensor System for a Wellbore

Attorney Docket: 061429-1148194 (HES Ref: 2019-IPM-103261 U1 US)

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Dated:

12/2/19

Tirumani Swaminathan

STATE OF

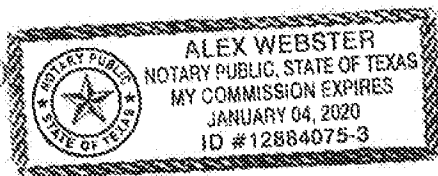
Texas

COUNTY OF

Tarrant

Before me, a Notary Public in and for the State of Texas, on this 2nd day of December, 2019, personally appeared Tirumani Swaminathan, who being duly sworn, signed and acknowledged the foregoing Assignment as his free act and deed.

(Seal)



Alex Webster
NOTARY PUBLIC

My Commission Expires:

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Dated: 12-2-19

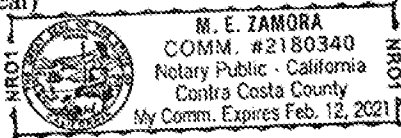
Eric James Davis
Eric James Davis

STATE OF California
COUNTY OF Contra Costa

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

Before me, a Notary Public in and for the State of California, on this 2nd day of December, 2019, personally appeared **Eric James Davis**, who being duly sworn, signed and acknowledged the foregoing Assignment as his free act and deed.

(Seal)



M. E. Zamora
NOTARY PUBLIC
My Commission Expires: 02/12/2021