

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT	
<b>CONVEYING PARTY DATA</b>		
	<b>Name</b>	<b>Execution Date</b>
	JAMES E. GALFORD	12/05/2017
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	HALLIBURTON ENERGY SERVICES, INC.	
<b>Street Address:</b>	3000 N. SAM HOUSTON PARKWAY E.	
<b>City:</b>	HOUSTON	
<b>State/Country:</b>	TEXAS	
<b>Postal Code:</b>	77032-3219	
<b>PROPERTY NUMBERS Total: 1</b>		
<b>Property Type</b>	<b>Number</b>	
<b>Application Number:</b>	16754262	
<b>CORRESPONDENCE DATA</b>		
<b>Fax Number:</b>	(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>		
<b>Phone:</b>	404-815-6500	
<b>Email:</b>	tlwhite@kilpatricktownsend.com	
<b>Correspondent Name:</b>	KILPATRICK TOWNSEND & STOCKTON LLP - HAL	
<b>Address Line 1:</b>	1100 PEACHTREE STREET NE	
<b>Address Line 2:</b>	SUITE 2800	
<b>Address Line 4:</b>	ATLANTA, UNITED STATES 30309	
<b>ATTORNEY DOCKET NUMBER:</b>	061429-1175107	
<b>NAME OF SUBMITTER:</b>	TAMBRA WHITE	
<b>SIGNATURE:</b>	/Tambra White/	
<b>DATE SIGNED:</b>	04/07/2020	
<b>Total Attachments: 2</b>		
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source=Assignment#page2.tif		

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

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

**CALIBRATING WELLBORE SPECTROMETERS**

the specification of which was filed with the U.S. Receiving Office of the PCT on November 17, 2017, and assigned application no. PCT/US2017/062168.

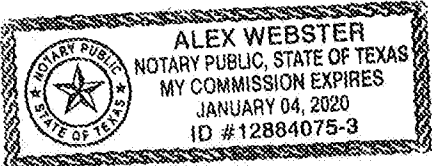
For one dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which I acknowledge, I:

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 Texas 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 me, as well as my heirs, legal representatives, and assigns.
5. Promise and affirm that I have not entered, and will not enter, into any assignment, contract, or understanding that conflicts with this Assignment.

Dated: 12/5/17 James E. Galford  
James E. Galford  
STATE OF Texas  
COUNTY OF Harris  
Before me, a Notary Public in and for the State of Texas, on this 5th day of December, 2017, personally appeared **James E. Galford**, who being duly sworn, signed and acknowledged the foregoing Assignment as his free act and deed.

(Seal)  Alex Webster  
NOTARY PUBLIC  
My Commission Expires: