

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT4098054

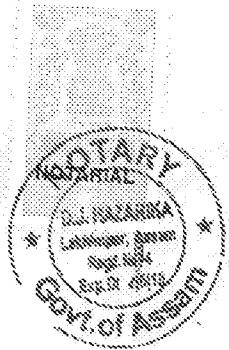
<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
ANUP SONA	10/03/2016
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	HALLIBURTON ENERGY SERVICES, INC.
<b>Street Address:</b>	3000 N. SAM HOUSTON PARKWAY E.
<b>City:</b>	HOUSTON
<b>State/Country:</b>	TEXAS
<b>Postal Code:</b>	77032
<b>PROPERTY NUMBERS Total: 2</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	62052504
<b>PCT Number:</b>	US1545666
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(404)601-5874
<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>	jautran@kilpatricktownsend.com
<b>Correspondent Name:</b>	KILPATRICK TOWNSEND & STOCKTON LLP
<b>Address Line 1:</b>	1100 PEACHTREE STREET
<b>Address Line 2:</b>	SUITE 2800
<b>Address Line 4:</b>	ATLANTA, GEORGIA 30309
<b>ATTORNEY DOCKET NUMBER:</b>	0918962/0943662/1002797
<b>NAME OF SUBMITTER:</b>	JON AUTRAN
<b>SIGNATURE:</b>	/Jon Autran/
<b>DATE SIGNED:</b>	10/14/2016
<b>Total Attachments: 3</b>	
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असम ASSAM

706909

S.L. No. 23  
Date 3/10/2016



Attorney Docket Nos. 061429-0918962;  
061429-0943662 and 061429-1002797  
(2014-IP-086863 VI US; PCT and I/ US)

*Assam (Assam)*

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

Whereas I, the undersigned inventor, have invented certain new and useful innovations as set forth in the following patent applications entitled:

**CENTRALIZER FOR USE WITH WELLBORE DRILL COLLAR**

- (1) U.S. Provisional Application No. 62/052,504, filed with the U.S. Patent and Trademark Office on September 19, 2014;
- (2) International Patent Application No. PCT/US2015/045666, filed with the U.S. Receiving Office of the PCT on August 18, 2015; and
- (3) U.S. Application No. 14/913,797, filed with the U.S. Patent and Trademark Office on February 23, 2016.

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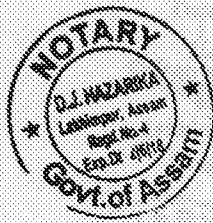
*D. J. Hazarika*  
**Dibyayoti Hazarika**  
NOTARY  
Lakhimpur, NLP.- 4

Assignment of Intellectual Property Rights in Application  
Patent Application Entitled: *Controlizer for Use with Wellbore Drill Collar*  
Attorney Docket: 061429-0918962, 061429-0943662 and 061429-1002797  
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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.

*Assignee*  
*(Anup Sora)*



*D.J. Hazarka*  
*Dibyajyoti Hazarka*  
NOTARY  
Lakhsimpur, NLP.-4

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Assignment of Intellectual Property Rights in Application  
Patent Application Entitled: Centralizer for Use with Wellbore Drill Collar  
Attorney Docket: 061429-0918962; 061429-0943662 and 061429-1002797  
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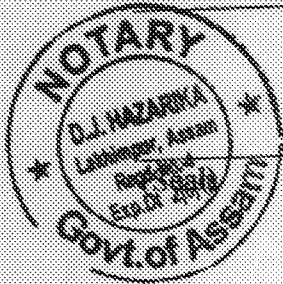
4. Agree that the terms, covenants, and conditions of this Assignment shall inure to the benefit of the Assignee, its successors, assigns and other legal representative, and shall be binding upon me, as well as my heirs, legal representatives, and assigns.
5. Promise and affirm that I have not entered, and will not enter, into any assignment, contract, or understanding that conflicts with this Assignment.
6. This Assignment is expressly made NUNC PRO TUNC to have the same legal force and effect as if executed on September 19, 2014 (the filing date of the above-referenced U.S. Provisional Application).

Dated: 3/10/2016

Anup  
(Anup Sona)

3/10/2016  
Dibyayoti Hazarka  
NOTARY PUBLIC §  
NOTARY

Lakhimpur, NLP-4  
Before me personally appeared said Anup Sona and acknowledged the foregoing instrument to be his free act and deed this 3rd day of Oct., 2016.



3/10/2016  
NOTARY  
Dibyayoti Hazarka  
NOTARY  
Lakhimpur, NLP-4