503474377 09/10/2015

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3521003

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
R. CHRISTOPHER NEALE	09/09/2015
JAMES D. LAKINGS	09/09/2015

RECEIVING PARTY DATA

Name:	FRACTURE ID, INC.
Street Address:	4720 W. 35TH AVENUE
City:	DENVER
State/Country:	COLORADO
Postal Code:	80212

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14850710

CORRESPONDENCE DATA

Fax Number: (816)753-1536

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.

Phone: 816-753-1000 Email: uspt@polsinelli.com

Correspondent Name: GREGORY P. DURBIN/POLSINELLI PC

Address Line 1: 900 W. 48TH PLACE

Address Line 2: SUITE 900

Address Line 4: KANSAS CITY, MISSOURI 64112

ATTORNEY DOCKET NUMBER:	080773-497033
NAME OF SUBMITTER:	HELEN MISWELL
SIGNATURE:	/Helen Miswell for Gregory P. Durbin/
DATE SIGNED:	09/10/2015

Total Attachments: 3

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> **PATENT** REEL: 036536 FRAME: 0390 503474377

ASSIGNMENT

PARTIES TO THE ASSIGNMENT:

Assignor/Inventor:

Name of Assignor: **R. Christopher Neale**City and State of Residence: **Denver, Colorado**

Name of Assignor: James D. Lakings

City and State of Residence: Evergreen, Colorado

Assignee:

Fracture ID, Inc. 4720 W. 35th Avenue Denver, Colorado 80212

PATENT APPLICATION SUBJECT TO THE ASSIGNMENT (the "Application"):

Patent	t Application No.:	14/850,710	
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Filing Date: September 10, 2015

Title: APPARATUS AND METHOD USING MEASUREMENTS TAKEN
WHILE DRILLING TO MAP MECHANICAL BOUNDARIES AND
MECHANICAL ROCK PROPERTIES ALONG A BOREHOLE

Attorney Docket No. 080773-497033

WHEREAS, the Assignor identified above has invented certain new and useful inventions for which the patent application for Letters Patent identified above has been prepared for filing with the United States Patent and Trademark Office.

NOW THEREFORE, for good and valuable consideration including at least US\$1, receipt of which is acknowledged, Assignor has agreed to assign and transfer and does hereby assign and transfer unto the Assignee identified above, its successors and assigns, the entire right, title, and interest in and to said invention and the Application, including any provisional or non-provisional application to which said Application claims priority, including but not limited to U.S. patent application no. 62/048,669, and in and to any United States of America and foreign applications that claim priority to the Application, any divisional or continuation (in whole or in part) of said Application, and in and to any and all improvements in said invention made by Assignor (provided any such improvement is made during, or within one year after the termination, of the employment by said Company of Assignor), and in and to any and all Letters Patent, reexaminations, reissues, or extensions thereof, of the United States of America and

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PATENT REEL: 036536 FRAME: 0391 countries foreign thereto including the right to apply for Letters Patent, Utility Models, or Inventors' Certificates in the United States of America and all foreign countries in its own name and any priority rights for such United States of America and foreign applications to which such applications or the Assignor are entitled under international conventions, treaties, or otherwise which have been or may be granted thereon or on any divisional, continuation (in whole or in part), renewal, reexamination, reissue, or other or further application based in whole or in part upon said invention or improvements thereon, to be held and enjoyed as fully and exclusively as they would have been by me had this assignment and transfer not been made;

Assignor further agrees for Assignor and for Assignor's heirs, executors, and administrators, to execute and deliver without further consideration any further applications, assignments, and documents, and to perform such other acts as Assignor lawfully may, that may be deemed necessary by said Assignee, its successors, assigns, and nominees, fully to secure its right, title, and interest as aforesaid to obtain to maintain Letters Patent, Utility Models, or Inventors' Certificates in any and all countries;

Assignor hereby authorizes Assignee, its successors and assigns, or anyone it may properly designate, to insert in this instrument the title, application number and filing date of the Application once known;

Assignor hereby acknowledges that Assignee's internal and external counsel have represented only Assignee and will continue to represent only Assignee with respect to this invention;

Assignor hereby acknowledges an obligation of assignment and transfer of this invention and Application to Assignee at the time the invention was made; and

Assignor hereby authorizes and requests the Commissioner of Patents to issue any and all Letters Patent which may be granted upon any of said applications, to said Assignee, as the assignee of the entire right, title, and interest therein.

Assignor and Assignee hereby agree that this assignment is governed by the laws of the state of Colorado of the United States of America and subject to the non-exclusive jurisdiction of the courts of the state of Colorado of the United States of America.

IN WITNESS WHEREOF, the Assignor hereunto has executed this Assignment upon the date indicated below.

By:	R. Christopher Neale R. Christopher Neale
•	R. Christopher Neale
Dated:	9 Sept 2015
D	
By:	
	James D. Lakings
Dated:	

countries foreign thereto including the right to apply for Letters Patent, Utility Models, or Inventors' Certificates in the United States of America and all foreign countries in its own name and any priority rights for such United States of America and foreign applications to which such applications or the Assignor are entitled under international conventions, treaties, or otherwise which have been or may be granted thereon or on any divisional, continuation (in whole or in part), renewal, reexamination, reissue, or other or further application based in whole or in part upon said invention or improvements thereon, to be held and enjoyed as fully and exclusively as they would have been by me had this assignment and transfer not been made;

Assignor further agrees for Assignor and for Assignor's heirs, executors, and administrators, to execute and deliver without further consideration any further applications, assignments, and documents, and to perform such other acts as Assignor lawfully may, that may be deemed necessary by said Assignee, its successors, assigns, and nominees, fully to secure its right, title, and interest as aforesaid to obtain to maintain Letters Patent, Utility Models, or Inventors' Certificates in any and all countries;

Assignor hereby authorizes Assignee, its successors and assigns, or anyone it may properly designate, to insert in this instrument the title, application number and filing date of the Application once known;

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IN WITNESS WHEREOF, the Assignor hereunto has executed this Assignment upon the date indicated below.

By:	
•	R. Christopher Neale
Dated:	
	1
By:	dame Dela
	James D. Lakings
Dated:	V91912as

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