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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	085055.000020
		Application Number	
Title of Invention	Safety Indicator Lights For Hydraulic Fracturing Pumps		
The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76. This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.			

Secrecy Order 37 CFR 5.2

☐	Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to 37 CFR 5.2 (Paper filers only. Applications that fall under Secrecy Order may not be filed electronically.)
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Inventor Information:

Inventor 1					Remove	
Legal Name						
Prefix	Given Name	Middle Name	Family Name	Suffix		
	Jared		Oehring			
Residence Information (Select One) ☒ US Residency ☐ Non US Residency ☐ Active US Military Service						
City	Houston	State/Province	TX	Country of Residence i	US	
Mailing Address of Inventor:						
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City	Houston	State/Province	TX			
Postal Code	77056	Country i	US			
Inventor 2					Remove	
Legal Name						
Prefix	Given Name	Middle Name	Family Name	Suffix		
	Robert		Kurtz			
Residence Information (Select One) ☒ US Residency ☐ Non US Residency ☐ Active US Military Service						
City	Houston	State/Province	TX	Country of Residence i	US	
Mailing Address of Inventor:						
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Address 2		Suite 405				
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Postal Code	77056	Country i	US			
All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the Add button.						
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Enter either Customer Number or complete the Correspondence Information section below. For further information see 37 CFR 1.33(a).
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HALLIBURTON EXHIBIT 1012

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	085055.000020
		Application Number	
Title of Invention	Safety Indicator Lights For Hydraulic Fracturing Pumps		

☐ An Address is being provided for the correspondence information of this application.

Customer Number	35979		
Email Address	docketing@bglip.com	Add Email	Remove Email

Application Information:

Title of the Invention	Safety Indicator Lights For Hydraulic Fracturing Pumps		
Attorney Docket Number	085055.000020	Small Entity Status Claimed	☐
Application Type	Provisional		
Subject Matter			
Total Number of Drawing Sheets (if any)	1	Suggested Figure for Publication (if any)	

Filing By Reference :

Only complete this section when filing an application by reference under 35 U.S.C. 111(c) and 37 CFR 1.57(a). Do not complete this section if application papers including a specification and any drawings are being filed. Any domestic benefit or foreign priority information must be provided in the appropriate section(s) below (i.e., "Domestic Benefit/National Stage Information" and "Foreign Priority Information").

For the purposes of a filing date under 37 CFR 1.53(b), the description and any drawings of the present application are replaced by this reference to the previously filed application, subject to conditions and requirements of 37 CFR 1.57(a).

Application number of the previously filed application	Filing date (YYYY-MM-DD)	Intellectual Property Authority or Country

Publication Information:

☐ Request Early Publication (Fee required at time of Request 37 CFR 1.219)

☐ **Request Not to Publish.** I hereby request that the attached application not be published under 35 U.S.C. 122(b) and certify that the invention disclosed in the attached application **has not and will not** be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing.

Representative Information:

Representative information should be provided for all practitioners having a power of attorney in the application. Providing this information in the Application Data Sheet does not constitute a power of attorney in the application (see 37 CFR 1.32). Either enter Customer Number or complete the Representative Name section below. If both sections are completed the customer Number will be used for the Representative Information during processing.

Please Select One:	☒ Customer Number	☐ US Patent Practitioner	☐ Limited Recognition (37 CFR 11.9)
Customer Number	35979		

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	085055.000020
		Application Number	
Title of Invention	Safety Indicator Lights For Hydraulic Fracturing Pumps		

Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, or 365(c) or indicate National Stage entry from a PCT application. Providing this information in the application data sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78.

When referring to the current application, please leave the application number blank.

Prior Application Status		Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the Add button.			Add

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This section allows for the applicant to claim priority to a foreign application. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55(d). When priority is claimed to a foreign application that is eligible for retrieval under the priority document exchange program (PDX) the information will be used by the Office to automatically attempt retrieval pursuant to 37 CFR 1.55(h)(1) and (2). Under the PDX program, applicant bears the ultimate responsibility for ensuring that a copy of the foreign application is received by the Office from the participating foreign intellectual property office, or a certified copy of the foreign priority application is filed, within the time period specified in 37 CFR 1.55(g)(1).

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Application Number	Country ⁱ	Filing Date (YYYY-MM-DD)	Access Code ^j (if applicable)
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Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications

- ☐ This application (1) claims priority to or the benefit of an application filed before March 16, 2013 and (2) also contains, or contained at any time, a claim to a claimed invention that has an effective filing date on or after March 16, 2013.
- NOTE: By providing this statement under 37 CFR 1.55 or 1.78, this application, with a filing date on or after March 16, 2013, will be examined under the first inventor to file provisions of the AIA.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	085055.000020
		Application Number	
Title of Invention	Safety Indicator Lights For Hydraulic Fracturing Pumps		

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☐	Authorization to Permit Access to the Instant Application by the Participating Offices
If checked, the undersigned hereby grants the USPTO authority to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the World Intellectual Property Office (WIPO), and any other intellectual property offices in which a foreign application claiming priority to the instant patent application is filed access to the instant patent application. See 37 CFR 1.14(c) and (h). This box should not be checked if the applicant does not wish the EPO, JPO, KIPO, WIPO, or other intellectual property office in which a foreign application claiming priority to the instant patent application is filed to have access to the instant patent application. In accordance with 37 CFR 1.14(h)(3), access will be provided to a copy of the instant patent application with respect to: 1) the instant patent application-as-filed; 2) any foreign application to which the instant patent application claims priority under 35 U.S.C. 119(a)-(d) if a copy of the foreign application that satisfies the certified copy requirement of 37 CFR 1.55 has been filed in the instant patent application; and 3) any U.S. application-as-filed from which benefit is sought in the instant patent application. In accordance with 37 CFR 1.14(c), access may be provided to information concerning the date of filing this Authorization.	

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Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.		
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If the applicant is the inventor (or the remaining joint inventor or inventors under 37 CFR 1.45), this section should not be completed. The information to be provided in this section is the name and address of the legal representative who is the applicant under 37 CFR 1.43; or the name and address of the assignee, person to whom the inventor is under an obligation to assign the invention, or person who otherwise shows sufficient proprietary interest in the matter who is the applicant under 37 CFR 1.46. If the applicant is an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest) together with one or more joint inventors, then the joint inventor or inventors who are also the applicant should be identified in this section.		
Clear		
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☒ Person to whom the inventor is obligated to assign.		☐ Person who shows sufficient proprietary interest
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Name of the Deceased or Legally Incapacitated Inventor :		
If the Applicant is an Organization check here. ☒		
Organization Name	US Well Services LLC	

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	085055.000020
		Application Number	
Title of Invention	Safety Indicator Lights For Hydraulic Fracturing Pumps		

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Country i	US	Postal Code	77056
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Email Address			
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Complete this section if assignee information, including non-applicant assignee information, is desired to be included on the patent application publication. An assignee-applicant identified in the "Applicant Information" section will appear on the patent application publication as an applicant. For an assignee-applicant, complete this section only if identification as an assignee is also desired on the patent application publication.			
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If the Assignee or Non-Applicant Assignee is an Organization check here. ☒			
Organization Name	US Well Services LLC		
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Country i	US	Postal Code	77056
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Signature	/Keith R. Derrington/	Date (YYYY-MM-DD)	2015-07-24

HALLIBURTON EXHIBIT 1012

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	085055.000020		
		Application Number			
Title of Invention	Safety Indicator Lights For Hydraulic Fracturing Pumps				
First Name	Keith R.	Last Name	Derrington	Registration Number	44061
Additional Signature may be generated within this form by selecting the Add button.					Add

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3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
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6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
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9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

PATENT APPLICATION

ATTORNEY DOCKET NO.: 085055.000020

INVENTOR(S):
Jared Oehring (US)
Robert Kurtz (US)

Application Prepared By:
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SAFETY INDICATOR LIGHTS FOR HYDRAULIC FRACTURING PUMPS

SAFETY INDICATOR LIGHTS FOR HYDRAULIC FRACTURING PUMPS

BRIEF DESCRIPTION OF DRAWINGS

[0001] Some of the features and benefits of the present invention having been stated, others will become apparent as the description proceeds when taken in conjunction with the accompanying drawings, in which:

[0002] FIG. 1 is a perspective view of an example of fracturing pump assembly having indicator lights.

[0003] While the invention will be described in connection with the preferred embodiments, it will be understood that it is not intended to limit the invention to that embodiment. On the contrary, it is intended to cover all alternatives, modifications, and equivalents, as may be included within the spirit and scope of the invention as defined by the appended claims.

DETAILED DESCRIPTION OF INVENTION

[0004] The method and system of the present disclosure will now be described more fully hereinafter with reference to the accompanying drawings in which embodiments are shown. The method and system of the present disclosure may be in many different forms and should not be construed as limited to the illustrated embodiments set forth herein; rather, these embodiments are provided so that this disclosure will be thorough and complete, and will fully convey its scope to those skilled in the art. Like numbers refer to like elements throughout. In an embodiment, usage of the term “about” includes +/- 5% of the cited magnitude. In an embodiment, usage of the term “substantially” includes +/- 5% of the cited magnitude.

[0005] It is to be further understood that the scope of the present disclosure is not limited to the exact details of construction, operation, exact materials, or embodiments shown and described, as modifications and equivalents will be apparent to one skilled in the art. In the drawings and specification, there have been disclosed illustrative embodiments and, although specific terms are employed, they are used in a generic and descriptive sense only and not for the purpose of limitation.

[0006] Embodiments of methods and systems described herein increase the safety of hydraulic fracturing sites by providing personnel with a simple and quick way to know the level of danger at any given time in areas referred to as “red zones.” An example of a red zone is an area or region, sometimes bounded with caution tape, where there is a risk of injury from a malfunction of operating machinery. Red zone areas include the space between fracturing pumps from the radiator back to a high pressure discharge line (which can include a discharge iron), the discharge line itself, the wellhead area, and the acid transport. Discharge lines can fail without

warning, and which can be fatal to operational personnel who are nearby, such as from metal shrapnel or high pressure fluid slurry. It is impractical to avoid red zone areas at all times as components or devices located a red zone area require maintenance or inspection; thereby requiring operations personnel to enter into a red zone area. In a known example of use, individually colored strobe lights are mounted a power end to indicate alarms on a fracturing pump motor, transmission, and power end. Alarms such as high temperatures or low oil pressures. These known lights are solid and do not flash, while indicating safety conditions to nearby personnel instead of mechanical problems.

[0007] Shown in the example of Figure 1 is a fracturing pump assembly 10 mounted on a trailer 11, where in one example the pump assembly 10 pressurizes fluid that is injected into a borehole (not shown) for creating fractures within the borehole. More specifically, pumps 12 are included in the pump assembly 10, and which receive fluid for pressurizing via suction lines 14. Pressurized fluid exiting the pumps 12 is directed into discharge lines 16 for delivery to the borehole. In the illustrated example, a motor 18 drives the pumps 12 via a driveshaft (not shown). A cooling system 20 for cooling the motor 18 is shown which includes an air blower 22, a motor 24 for driving the blower 22. An air cooled heat exchanger 26 is shown mounted on a frame above each pump 12, and adjacent to their ends distal from where the discharge lines 16 each mount to the pumps 12. An indicator light assembly 28 mounts on an upper side of each heat exchanger 26, and when illuminated selectively provides visual indicator(s) representing information about pressure in the discharge line 16 as well as the energized state of the associated pumps 12.

[0008] An advantage of providing a selectively activated indicator light assembly 28 associated with each of the pumps 12 allows immediate visual indicators to operations or other personnel

proximate the pump assembly 10. The visual signal of the indicator light assembly 28 enables personnel to easily recognize that a particular discharge line 16 is pressurized, as well as identifying which one of the pumps 12 has been engaged (or energized). Thus if necessary, personnel can safely evacuate area(s) flagged by the indicator light assembly 28 as being potentially hazardous. Further optionally, the indicator light assembly 28 can emit visual signals of more than a single color to represent different information. Color coded lights can be provided with the pump assembly 10 that selectively indicate the state of each pump motor 18 and pressure of each discharge line 16, which in turn increases safety of onsite personnel. In an example embodiment, each indicator light assembly 28 includes a set of indicator elements 30₁, 30₂, 30₃. In an example each of the indicator elements 30₁, 30₂, 30₃ emit light that is a color different from light emitted from other indicator elements 30₁, 30₂, 30₃. In an alternative, element 30₁ emits light having a red color, element 30₂ emits light having an amber or orange color, and element 30₃ emits light having a green color. Further, the different colors emitted by the indicator elements 30₁, 30₂, 30₃ can be selected to be easily distinguishable from one another. Optionally, each pump 12 is provided with at least one dedicated indicator light assembly 28, whether it is a single or dual pump per trailer configuration.

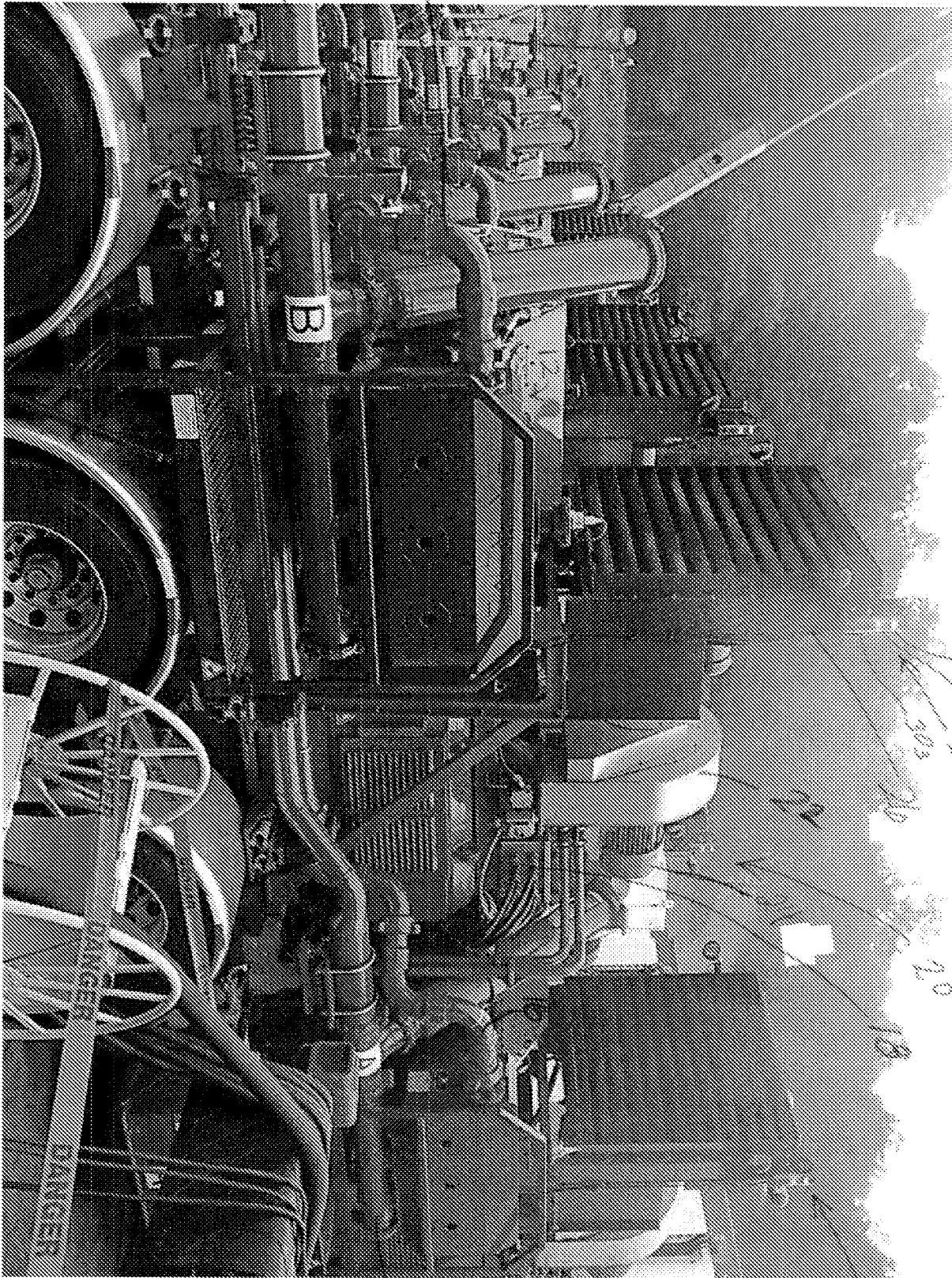
[0009] In an example of operation when components within the pump assembly 10 are in an un-energized state, none of the indicator elements 30₁, 30₂, 30₃ are illuminated, thus the associated components are safe for maintenance. In an example when green only is illuminated (element 30₃), power is available to the pump assembly 10 but the motor 18 is deactivated per pump control software. This example is similar to having the brake set on a diesel pump. In an example where orange or amber (element 30₂) is illuminated is an indication that the controls from the pump 12 and/or motor 18 are engaged. In examples where element 30₂ is illuminated,

the pump 12 can be physically stroking or activated at the pump control station (not shown) and a single command, such as by a mouse click or switch, can turn the motor 18 and the pump 12. In an embodiment when element 30₁ is illuminated and red light is visible, pressure in the discharge line 16 can be 100 pounds per square inch or higher; which can be sensed by a pressure transducer (not shown). This either indicates that the pump 12 is moving and pressurizing fluid, i.e. its plungers (not shown) are stroking. Embodiments where element 30₁ is illuminated may indicate that a check valve is leaking back to the fluid end and needs examined once pressure is safely bleed off. Examples having a red/green light combination (indicator elements 30₁ and 30₃ being illuminated) may indicate a failure in the check valve. An example of a red/orange combination (indicator elements 30₂ and 30₃ being illuminated) can indicate that the corresponding pump 12 is pumping under the control of a pump operator.

[0010] The system and method described herein can be used in environments where operations personnel situated on or around the pump assembly 10 cannot directly control devices within the pump assembly 10. A “line boss” sometimes walks outside among the equipment to check for leaks and other problems while an operator who controls devices in the pump assembly 10 can be 100 feet or more away and inside a data-van. If communication between the line boss and operator is lost, such as multiple head set failure, the line boss may not be informed that the pump(s) 12 are being activated. However, the redundant and conspicuous indicator elements 30₁, 30₂, 30₃ can provide notice to the line boss to avoid the red zone and thus avoid injury. This feature can also serve as a warning to any other personnel who happen to be in a red zone without a head set or other forms of communication indicating the operational status of components in the pump assembly 10. These indicators 30₁, 30₂, 30₃ also allow third party companies (wireline workers, wellhead personnel, truck drivers, vacuum truck operators, etc.) to

see what the status is of the red zone without walking into the data-van during operations or mistakenly wandering into a dangerous situation.

[0011] The present invention described herein, therefore, is well adapted to carry out the objects and attain the ends and advantages mentioned, as well as others inherent therein. While a presently preferred embodiment of the invention has been given for purposes of disclosure, numerous changes exist in the details of procedures for accomplishing the desired results. For example, color combinations other than red, orange, and green could be used. Further, it is possible to tie audible alarms to the lights if it is desired or advantageous. Strobe lights could also be used for certain conditions. If the need arises more colors could be used to indicate different situations such as more than three indicator elements being used to indicate different discharge pressure, motor rpm, trailer vibration, or electrical power draw (in the case of the electric equipment) thresholds. The pump assembly 10 can be skid, trailer, or truck mounted, and can be used for onshore or offshore, and there could be different hydraulic HP on the pumps. Also, there could be one or more pump 18 per pump assembly 10. These and other similar modifications will readily suggest themselves to those skilled in the art, and are intended to be encompassed within the spirit of the present invention disclosed herein and the scope of the appended claims.



16

Electronic Patent Application Fee Transmittal

Application Number:				
Filing Date:				
Title of Invention:	SAFETY INDICATOR LIGHTS FOR HYDRAULIC FRACTURING PUMPS			
First Named Inventor/Applicant Name:	Jared Oehring			
Filer:	Keith Ronald Derrington/Dora Rios			
Attorney Docket Number:	085055.000020			
Filed as Small Entity				
Filing Fees for Provisional				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Provisional Application Filing Fee	2005	1	130	130
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				130

Electronic Acknowledgement Receipt

EFS ID:	23012782
Application Number:	62196350
International Application Number:	
Confirmation Number:	7556
Title of Invention:	SAFETY INDICATOR LIGHTS FOR HYDRAULIC FRACTURING PUMPS
First Named Inventor/Applicant Name:	Jared Oehring
Customer Number:	35979
Filer:	Keith Ronald Derrington/Dora Rios
Filer Authorized By:	Keith Ronald Derrington
Attorney Docket Number:	085055.000020
Receipt Date:	24-JUL-2015
Filing Date:	
Time Stamp:	10:41:57
Application Type:	Provisional

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	\$ 130
RAM confirmation Number	8610
Deposit Account	500259
Authorized User	RIOS, DORA

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

Charge any Additional Fees required under 37 C.F.R. Section 1.16 (National application filing, search, and examination fees)

HALLIBURTON EXHIBIT 1012

File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Application Data Sheet	ApplicationDataSheet.pdf	1560975	no	7
			08d3aab0f05f149687dd2480619e78ef2e288fc		
Warnings:					
Information:					
2	Specification	Safety_Indicator_Lights_Provisional_Patent_Application.pdf	95072	no	7
			4abfe8f12d0161aca4c52b4b1fe6b1f1d18cd3a7		
Warnings:					
Information:					
3	Drawings-only black and white line drawings	Drawing-Fig_1.pdf	311878	no	1
			4e5313bdaa15a6c7a5d776e47cc2ac6293fb431		
Warnings:					
Information:					
4	Fee Worksheet (SB06)	fee-info.pdf	29786	no	2
			72fdd648efa902db366787f4e4c80980e6f97852		
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Information:					
Total Files Size (in bytes):			1997711		
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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	TOT CLAIMS	IND CLAIMS
62/196,350	07/24/2015		130	085055.000020		

CONFIRMATION NO. 7556

FILING RECEIPT

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Houston, TX 77208-1389



Date Mailed: 08/07/2015

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If Required, Foreign Filing License Granted: 08/06/2015

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 62/196,350**

Projected Publication Date: None, application is not eligible for pre-grant publication

Non-Publication Request: No

Early Publication Request: No

**** SMALL ENTITY ****

Title

Safety Indicator Lights For Hydraulic Fracturing Pumps

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

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page 1 of 3

HALLIBURTON EXHIBIT 1012

Halliburton Energy Services, Inc. v. U.S. Well Services, LLC, IPR2023-00557, Page 20

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