

62/562,943 | 0486-10685-1: ELECTRIC DRIVE PUMP FOR WELL STIMULATION

PUBLIC VIEW

Application #	Confirmation #	Attorney Docket #	Patent #
62/562,943	3974	0486-10685-1	-
Filing or 371 (c) date	Status		
09/25/2017	Provisional Application Expired 09/30/2018		

 Show/hide menu

Application data

Application type	Earliest publication #	Intl. registration # (Hague)
Provisional	-	-
Examiner	Earliest publication date	Intl. registration publication date
-	-	-
Group art unit	Assignee for publication	
-	-	
Class/subclass	Confirmation #	
-/-	3974	
AIA (first inventor to file)		
-		
Entity status		
Micro		
Correspondence address	Inventors	Applicants
15145 - Law Office of Jeff Williams PLLC PO Box 7 Jacksonville, TX UNITED STATES	CHRIS BUCKLEY TOMBALL, TEXAS (US) PAUL THOMAS LIGHTFOOT STOCKTON BROOK (GB)	



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	TOT CLAIMS	IND CLAIMS
62/562,943	09/25/2017		65	0486-10685-1		

15145
Law Office of Jeff Williams PLLC
1701 E. Lamar Blvd., Suite 155
Arlington, TX 76006

CONFIRMATION NO. 3974
FILING RECEIPT



Date Mailed: 10/13/2017

Receipt is acknowledged of this provisional patent application. It will not be examined for patentability and will become abandoned not later than twelve months after its filing date. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. **If an error is noted on this Filing Receipt, please submit a written request for a Filing Receipt Correction. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections**

Inventor(s)

CHRIS BUCKLEY, TOMBALL, TX;
PAUL THOMAS LIGHTFOOT, STOCKTON BROOK, UNITED KINGDOM;

Applicant(s)

CHRIS BUCKLEY, TOMBALL, TX;
PAUL THOMAS LIGHTFOOT, STOCKTON BROOK, UNITED KINGDOM;

Power of Attorney:

Jeffrey Williams--67374

Permission to Access Application via Priority Document Exchange: Yes

Permission to Access Search Results: Yes

Applicant may provide or rescind an authorization for access using Form PTO/SB/39 or Form PTO/SB/69 as appropriate.

If Required, Foreign Filing License Granted: 10/12/2017

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 62/562,943**

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

Non-Publication Request: No

Early Publication Request: No

**** MICRO ENTITY ****

Title

ELECTRIC DRIVE PUMP FOR WELL STIMULATION

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

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at <http://www.uspto.gov/web/offices/pac/doc/general/index.html>.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, <http://www.stopfakes.gov>. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4258).

LICENSE FOR FOREIGN FILING UNDER

Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

GRANTED

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier

license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign Assets Control, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

NOT GRANTED

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

SelectUSA

The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The U.S. offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to promote and facilitate business investment. SelectUSA provides information assistance to the international investor community; serves as an ombudsman for existing and potential investors; advocates on behalf of U.S. cities, states, and regions competing for global investment; and counsels U.S. economic development organizations on investment attraction best practices. To learn more about why the United States is the best country in the world to develop technology, manufacture products, deliver services, and grow your business, visit <http://www.SelectUSA.gov> or call +1-202-482-6800.

CERTIFICATION OF MICRO ENTITY STATUS (GROSS INCOME BASIS)				
Application Number or Control Number (if applicable):		Patent Number (if applicable):		
First Named Inventor: CHRIS BUCKLEY		Title of Invention: ELECTRIC DRIVE PUMP FOR WELL STIMULATION		
The applicant hereby certifies the following—				
(1) SMALL ENTITY REQUIREMENT – The applicant qualifies as a small entity as defined in 37 CFR 1.27. (2) APPLICATION FILING LIMIT – Neither the applicant nor the inventor nor a joint inventor has been named as the inventor or a joint inventor on more than four previously filed U.S. patent applications, excluding provisional applications and international applications under the Patent Cooperation Treaty (PCT) for which the basic national fee under 37 CFR 1.492(a) was not paid, and also excluding patent applications for which the applicant has assigned all ownership rights, or is obligated to assign all ownership rights, as a result of the applicant's previous employment. (3) GROSS INCOME LIMIT ON APPLICANTS AND INVENTORS – Neither the applicant nor the inventor nor a joint inventor, in the calendar year preceding the calendar year in which the applicable fee is being paid, had a gross income, as defined in section 61(a) of the Internal Revenue Code of 1986 (26 U.S.C. 61(a)), exceeding the "Maximum Qualifying Gross Income" reported on the USPTO Web site at http://www.uspto.gov/patents/law/micro_entity.jsp which is equal to three times the median household income for that preceding calendar year, as most recently reported by the Bureau of the Census. (4) GROSS INCOME LIMIT ON PARTIES WITH AN "OWNERSHIP INTEREST" – Neither the applicant nor the inventor nor a joint inventor has assigned, granted, or conveyed, nor is under an obligation by contract or law to assign, grant, or convey, a license or other ownership interest in the application concerned to an entity that, in the calendar year preceding the calendar year in which the applicable fee is being paid, had a gross income, as defined in section 61(a) of the Internal Revenue Code of 1986, exceeding the "Maximum Qualifying Gross Income" reported on the USPTO Web site at http://www.uspto.gov/patents/law/micro_entity.jsp which is equal to three times the median household income for that preceding calendar year, as most recently reported by the Bureau of the Census.				
SIGNATURE by an <u>authorized party</u> set forth in 37 CFR 1.33(b)				
Signature		/JOWilliams#67374/		
Name		Jeffrey Williams		
Date	2017-09-25	Telephone	817-225-6561	Registration No. 67374
☐	There is more than one inventor and I am one of the inventors who are jointly identified as the applicant. The required additional certification form(s) signed by the other joint inventor(s) are included with this form.			

Privacy Act Statement

The **Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
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).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
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.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
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.

Electronic Patent Application Fee Transmittal				
Application Number:				
Filing Date:				
Title of Invention:		ELECTRIC DRIVE PUMP FOR WELL STIMULATION		
First Named Inventor/Applicant Name:		CHRIS BUCKLEY		
Filer:		Jeffrey O. Williams/Angela Nixon		
Attorney Docket Number:		0486-10685-1		
Filed as Micro Entity				
Filing Fees for Provisional				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
PROVISIONAL APPLICATION FILING FEE	3005	1	65	65
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 (\$)				65

Electronic Acknowledgement Receipt	
EFS ID:	30468032
Application Number:	62562943
International Application Number:	
Confirmation Number:	3974
Title of Invention:	ELECTRIC DRIVE PUMP FOR WELL STIMULATION
First Named Inventor/Applicant Name:	CHRIS BUCKLEY
Customer Number:	15145
Filer:	Jeffrey O. Williams/Angela Nixon
Filer Authorized By:	Jeffrey O. Williams
Attorney Docket Number:	0486-10685-1
Receipt Date:	25-SEP-2017
Filing Date:	
Time Stamp:	18:43:53
Application Type:	Provisional

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	\$65
RAM confirmation Number	092617INTEFSW18441500
Deposit Account	
Authorized User	
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:	

File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Transmittal of New Application	Transmittal.pdf	20255	no	2
			cdb7bf22b16eb9ca37e5c9d0099bd260c0c042d9		
Warnings:					
Information:					
2	Application Data Sheet	aia0014.pdf	1822736	no	8
			fb948a3cc95a6294a53f842424d4501110d31f17		
Warnings:					
Information:					
3	Specification	Specification_10685.pdf	40587	no	6
			318f6befaaedf03fabfc55377868e7b1add90dc7		
Warnings:					
Information:					
4	Drawings-only black and white line drawings	Drawings_10685.pdf	169547	no	4
			2b694d119f35bf80edf24522173115031fae0084		
Warnings:					
Information:					
5	Provisional Cover Sheet (SB16)	ProvisionalSB.pdf	1477224	no	3
			42a8651b659b4a1bdd8eda5581970fc938dc2479		
Warnings:					
Information:					
6	Certification of Micro Entity (Gross Income Basis)	sb0015a.pdf	108102	no	2
			3e4ad22ddf6820f263d6832b36b5426cb1e9cb2c		
Warnings:					
Information:					

7	Fee Worksheet (SB06)	fee-info.pdf	30140 7540b094e32b178c5e9c5bacff2a7693b8d447fa	no	2
Warnings:					
Information:					
Total Files Size (in bytes):			3668591		
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.					

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Attorney Docket No. 0486-10685-1

In Re Application of:

CHRIS BUCKLEY ET AL.

Serial No. **TO BE ASSIGNED**

Filed: **HEREWITH**

For: **ELECTRIC DRIVE PUMP FOR WELL STIMULATION**

§ Examiner: **TO BE ASSIGNED**

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Art Unit: **TO BE ASSIGNED**

Confirmation No. **TO BE ASSIGNED**

TRANSMITTAL

Filed via EFS-Web

Commissioner for Patents

P.O. Box 1450

Alexandria, Virginia 22313-1450

Sir:

Please file the following enclosed documents in the subject application:

1. This Transmittal with Certificate of Transmission;
2. Provisional Application Cover Sheet;
3. Application Data Sheet;
4. Provisional Patent Application, including 4 sheets of Drawings; and
5. Certification of Micro Entity Status (SB/15A).

CERTIFICATE OF TRANSMISSION UNDER 37 C.F.R. § 1.8(a)(1)(i)(C)

Date of Transmission: 25 September 2017

I hereby certify that this correspondence is being transmitted to the U.S. Patent and Trademark Office (USPTO) via the USPTO electronic filing system (EFS-Web) on the date shown above.

By: /JOWilliams#67374/

Jeffrey O. Williams

The foregoing documents are being filed via the U.S. Patent and Trademark Office's EFS-Web electronic filing system. The Filing Fees are being paid via the EFS-Web electronic filing system by a designated credit card. No other fees are deemed to be necessary.

Please link this application to Customer No. 15145, so that its status may be accessed via the PAIR System.

Respectfully submitted,

25 September 2017
Date

/JOWilliams#67374/
Jeffrey O. Williams
Registration No. 67,374
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1701 E. Lamar Blvd., Suite 155
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(888) 908-6679 (Fax)
jeff@williamsiplaw.com (Email)

CUSTOMER NO. 15145

ATTORNEY FOR APPLICANT

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	0486-10685-1
		Application Number	
Title of Invention	ELECTRIC DRIVE PUMP FOR WELL STIMULATION		
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.)
--------------------------	---

Inventor Information:

Inventor	1	Remove			
Legal Name					
Prefix	Given Name	Middle Name	Family Name	Suffix	
	CHRIS		BUCKLEY		
Residence Information (Select One) ☒ US Residency ☐ Non US Residency ☐ Active US Military Service					
City	TOMBALL	State/Province	TX	Country of Residence	US
Mailing Address of Inventor:					
Address 1	17012 LAKEWAY PARK				
Address 2					
City	TOMBALL	State/Province	TX	Country of Residence	US
Postal Code	77375	Country i	US		
Inventor	2	Remove			
Legal Name					
Prefix	Given Name	Middle Name	Family Name	Suffix	
	PAUL	THOMAS	LIGHTFOOT		
Residence Information (Select One) ☒ US Residency ☐ Non US Residency ☐ Active US Military Service					
City	STOCKTON BROOK	State/Province		Country of Residence	UK
Mailing Address of Inventor:					
Address 1	10 ROSEWOOD AVENUE				
Address 2					
City	STOCKTON BROOK, STAFFORDSHIRE	State/Province		Country of Residence	UK
Postal Code	ST9 9PA	Country i	UK		
All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the Add button.					
Add					

Correspondence Information:

Enter either Customer Number or complete the Correspondence Information section below. For further information see 37 CFR 1.33(a).

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	0486-10685-1
		Application Number	
Title of Invention	ELECTRIC DRIVE PUMP FOR WELL STIMULATION		

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

Customer Number	15145		
Email Address	INFO@WILLIAMSIPLAW.COM	Add Email	Remove Email

Application Information:

Title of the Invention	ELECTRIC DRIVE PUMP FOR WELL STIMULATION		
Attorney Docket Number	0486-10685-1	Small Entity Status Claimed	☐
Application Type	Provisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	4	Suggested Figure for Publication (if any)	2

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	15145		

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	0486-10685-1
		Application Number	
Title of Invention	ELECTRIC DRIVE PUMP FOR WELL STIMULATION		

Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, 365(c), or 386(c) or indicate National Stage entry from a PCT application. Providing benefit claim 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" field blank.

Prior Application Status		Remove	
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the Add button.			

Foreign Priority Information:

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. When priority is claimed to a foreign application that is eligible for retrieval under the priority document exchange program (PDX)ⁱ the information will be used by the Office to automatically attempt retrieval pursuant to 37 CFR 1.55(i)(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).

Application Number	Country ⁱ	Filing Date (YYYY-MM-DD)	Remove
			Access Code ^j (if applicable)
Additional Foreign Priority Data may be generated within this form by selecting the Add button.			

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	0486-10685-1
		Application Number	
Title of Invention	ELECTRIC DRIVE PUMP FOR WELL STIMULATION		

Authorization or Opt-Out of Authorization to Permit Access:

When this Application Data Sheet is properly signed and filed with the application, applicant has provided written authority to permit a participating foreign intellectual property (IP) office access to the instant application-as-filed (see paragraph A in subsection 1 below) and the European Patent Office (EPO) access to any search results from the instant application (see paragraph B in subsection 1 below).

Should applicant choose not to provide an authorization identified in subsection 1 below, applicant **must opt-out** of the authorization by checking the corresponding box A or B or both in subsection 2 below.

NOTE: This section of the Application Data Sheet is **ONLY** reviewed and processed with the **INITIAL** filing of an application. After the initial filing of an application, an Application Data Sheet cannot be used to provide or rescind authorization for access by a foreign IP office(s). Instead, Form PTO/SB/39 or PTO/SB/69 must be used as appropriate.

1. Authorization to Permit Access by a Foreign Intellectual Property Office(s)

A. Priority Document Exchange (PDX) - Unless box A in subsection 2 (opt-out of authorization) is 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 State Intellectual Property Office of the People's Republic of China (SIPO), the World Intellectual Property Organization (WIPO), and any other foreign intellectual property office participating with the USPTO in a bilateral or multilateral priority document exchange agreement in which a foreign application claiming priority to the instant patent application is filed, access to: (1) the instant patent application-as-filed and its related bibliographic data, (2) any foreign or domestic application to which priority or benefit is claimed by the instant application and its related bibliographic data, and (3) the date of filing of this Authorization. See 37 CFR 1.14(h)(1).

B. Search Results from U.S. Application to EPO - Unless box B in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the EPO access to the bibliographic data and search results from the instant patent application when a European patent application claiming priority to the instant patent application is filed. See 37 CFR 1.14(h)(2).

The applicant is reminded that the EPO's Rule 141(1) EPC (European Patent Convention) requires applicants to submit a copy of search results from the instant application without delay in a European patent application that claims priority to the instant application.

2. Opt-Out of Authorizations to Permit Access by a Foreign Intellectual Property Office(s)

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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	0486-10685-1
		Application Number	
Title of Invention	ELECTRIC DRIVE PUMP FOR WELL STIMULATION		

Applicant Information:

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.				
Applicant		1		Remove
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				
Assignee		Legal Representative under 35 U.S.C. 117		Joint Inventor
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. ☐				
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Assignee Information including Non-Applicant Assignee Information:

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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	0486-10685-1
		Application Number	
Title of Invention	ELECTRIC DRIVE PUMP FOR WELL STIMULATION		

Assignee	1			
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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This Application Data Sheet must be signed by a patent practitioner if one or more of the applicants is a juristic entity (e.g., corporation or association). If the applicant is two or more joint inventors, this form must be signed by a patent practitioner, all joint inventors who are the applicant, or one or more joint inventor-applicants who have been given power of attorney (e.g., see USPTO Form PTO/AIA/81) on behalf of all joint inventor-applicants.					
See 37 CFR 1.4(d) for the manner of making signatures and certifications.					
Signature	/JOWilliams#67374/		Date (YYYY-MM-DD)	2017-09-25	
First Name	Jeffrey	Last Name	Williams	Registration Number	67,374
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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	0486-10685-1
		Application Number	
Title of Invention	ELECTRIC DRIVE PUMP FOR WELL STIMULATION		

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- 2 A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
- 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.
- 8 A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.
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S P E C I F I C A T I O N

TO ALL WHOM IT MAY CONCERN:

BE IT KNOWN that we, Chris Buckley, of Tomball, Texas; and Paul Thomas Lightfoot, of Stockton Brook, Staffordshire, UK; have invented a new and useful

ELECTRIC DRIVE PUMP FOR WELL STIMULATION

of which the following is a specification.

CERTIFICATE OF TRANSMISSION UNDER 37 C.F.R. § 1.8(a)(1)(i)(C)
Date of Transmission: 25 September 2017
I hereby certify that this correspondence is being transmitted to the U.S. Patent and Trademark Office (USPTO) via the USPTO electronic filing system (EFS-Web) on the date shown above.
By: <u>/JOWilliams#67374/</u> Jeffrey O. Williams

BACKGROUND

1. Field of the Invention

The present application relates generally to hydraulic fracturing in oil and gas wells, and in particular to an electric drive pump used to drive a fluid end for the pumping of a fracturing fluid into a well.

2. Description of Related Art

It is difficult to economically produce hydrocarbons from low permeability reservoir rocks. Oil and gas production rates are often boosted by hydraulic fracturing, a technique that increases rock permeability by opening channels through which hydrocarbons can flow to recovery wells. Hydraulic fracturing has been used for decades to stimulate production from conventional oil and gas wells. The practice consists of pumping fluid into a wellbore at high pressure (sometimes as high as 50,000 PSI). Inside the wellbore, large quantities of proppants are carried in suspension by the fracture fluid into the fractures. When the fluid enters the formation, it fractures, or creates fissures, in the formation. Water, as well as other fluids, and some solid proppants, are then pumped into the fissures to stimulate the release of oil and gas from the formation. When the pressure is released, the fractures partially close on the proppants, leaving channels for oil and gas to flow.

Fracturing rock in a formation requires that the fracture fluid be pumped into the well bore at very high pressure. This pumping is typically performed by large diesel-powered pumps in communication with one or more fluid ends. These specialized pumps are used to power the operation of the fluid end to deliver fracture fluids at sufficiently high rates and pressures to complete a hydraulic fracturing procedure or "frac job." Such pumps are able to pump fracturing fluid into a well bore at a high enough pressure to crack the formation, but they also have drawbacks. For example, the diesel pumps are very heavy, and thus must be moved on heavy duty trailers, making transport of the pumps between oilfield sites expensive and inefficient. In addition, the diesel engines required to drive the pumps require a relatively high level of

expensive maintenance. Furthermore, the cost of diesel fuel is much higher than in the past, meaning that the cost of running the pumps has increased.

Although great strides have been made with respect to the power end of a fracturing pump system, considerable shortcomings remain. An improved pump for hydraulic fracturing fluid that overcomes the problems associated with diesel pumps is needed.

DESCRIPTION OF THE DRAWINGS

The novel features believed characteristic of the application are set forth in the description. However, the application itself, as well as a preferred mode of use, and further objectives and advantages thereof, will best be understood by reference to the following detailed description when read in conjunction with the accompanying drawings.

Figure 1 is a side view of a schematic of a power end in communication with a plurality of electric motors according to an embodiment of the present application.

Figure 2 is a perspective view of a representative example of the power end with electric motors in association with a fluid end.

Figures 3-6 are charts of the operative functioning of the electric motors in various different power demand conditions.

While the application is susceptible to various modifications and alternative forms, specific embodiments thereof have been shown by way of example in the drawings and are herein described in detail. It should be understood, however, that the description herein of specific embodiments is not intended to limit the application to the particular forms disclosed, but on the contrary, the intention is to cover all modifications, equivalents, and alternatives falling within the spirit and scope of the application as described herein.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

Illustrative embodiments of the preferred embodiment are described below. In the interest of clarity, not all features of an actual implementation are described in this specification. It will of course be appreciated that in the development of any such actual embodiment, numerous implementation-specific decisions must be made to achieve the developer's specific goals, such as compliance with system-related and business-related constraints, which will vary from one implementation to another. Moreover, it will be appreciated that such a development effort might be complex and time-consuming but would nevertheless be a routine undertaking for those of ordinary skill in the art having the benefit of this disclosure.

The assembly in accordance with the present application overcomes one or more problems commonly associated with conventional pumps used to stimulate a well. The electric drive pump of the present application is configured to incorporate a plurality of electric motors to the power end or pump portion of a pump system. The motors are configured to operate independently to vary the power supplied and may operate in any sequential order. By including smaller motors, the motors are more easily obtained in the market, precise power requirements may be met smoothly, and overall power consumption may be minimized. These and other unique features of the device are discussed below and illustrated in the accompanying drawings.

Referring now to Figures 1 and 2 in the drawings, a side view of a schematic of a power end in communication with a plurality of electric motors and a representative perspective view is illustrated. The power end includes a pump that is used to operate one or more fluid ends. The fluid ends are used to pump fluid into a well. As stated previously, a diesel powered power end has a number of disadvantages. This system includes a series of electric motors of sufficient number needed to give the required output to operate the one or more fluid ends. The precise number is dependent upon design constraints and engineering parameters. It is understood that more than one may be used. In Figure 1, a total of 10 are shown or implied, with 5 being located on either side of the power end.

The electric motors may be coupled to the power end in various orientations. Ultimately any restriction on the chosen orientation is that it must be able to convey energy so as to operate the power end. For example, the electric motors may be mounted in parallel with an axis of the pump; or the electric motors may be mounted perpendicular to the axis of the pump. Any combination of parallel or perpendicular are permitted between the numbers of motors. Additionally, any orientation between or beyond parallel and perpendicular are possible.

Selected gearing may be used to assist in mating the electric motors to the power end. As seen from Figure 1, these can be mounted at both ends of the pump, which apply the drive by means of any of the following: a gear/gears, chain or belt drive, or a combination of some or all. A clutch or system of clutches could be used to couple/de-couple the motors from the drive of the pump. Also a transfer gear system can be used if required. This may depend on the orientation of the axis of the motor to the axis of the pump.

Each electric motor is configured to produce a set amount of power (power max). The sizing of the plurality of motors can be such that they output equal or different amounts of power individually. Collectively, to some degree, a sufficient amount of power needs to be output from some number of the plurality of electric motors as is necessary to achieve the pumps output.

It is understood that if each of the motors are independently operable, some motors may be on while other are off. Referring now also to Figures 3-6 in the drawings, charts of the operative functioning of the electric motors are illustrated. The motors can be used in a continuous duty cycle or as a sequenced duty cycle to meet the requirement of the pumps output. Each chart includes a table showing 14 motors which may be associated with a left side and a right side (the number of motors is exemplary only). The motors may be on one side only or associated with both sides. Under each side a label of "on" and "off" is provided. In Figure 3, an example of the operation of the motors is provided wherein only a small amount of power is needed. In this condition, only motor #1 is turned on. The others remained off.

In Figure 4, a 50% output is required. To produce this amount, the even numbered motors are operative while the odd numbered motors are deactivated or turned off. In this case, 50% power is provided by operating half the motors at full capacity. In Figure 5, 100% power is required and therefore all motors are turned on. In Figure 6, 70% power is required. In this example, motors 1, 5, 9, and 13 are off while the others are on. As seen from the exemplary charts of Figures 3-6, the power supplied can be adjusted by changing the number of motors turned on.

As alluded to above, it would appear that each motor is configured to operate in full output mode only. It is understood that the system of the present application may permit the motors to be run at various speeds or power outputs. This could allow all the motors to operate for a 50% required output, where each motor is producing only $\frac{1}{2}$ its max output. An advantage of varied output motors would be that potentially maintenance may be provided to select motors during operation of the fluid end without the need to completely shut down operations as other motors may be set to compensate for the needed load conditions. Naturally, the motors may interact and operate in any number of different manners.

It is evident by the foregoing description that the subject application has other significant benefits and advantages. The present assembly is amenable to various changes and modifications without departing from the spirit thereof. The particular embodiments disclosed above are illustrative only, as the system and method may be modified and practiced in different but equivalent manners apparent to those skilled in the art having the benefit of the teachings herein. It is therefore evident any alterations, modifications, and all such variations are considered within the scope and spirit of the application. It is apparent that a system and method with significant advantages has been described and illustrated.

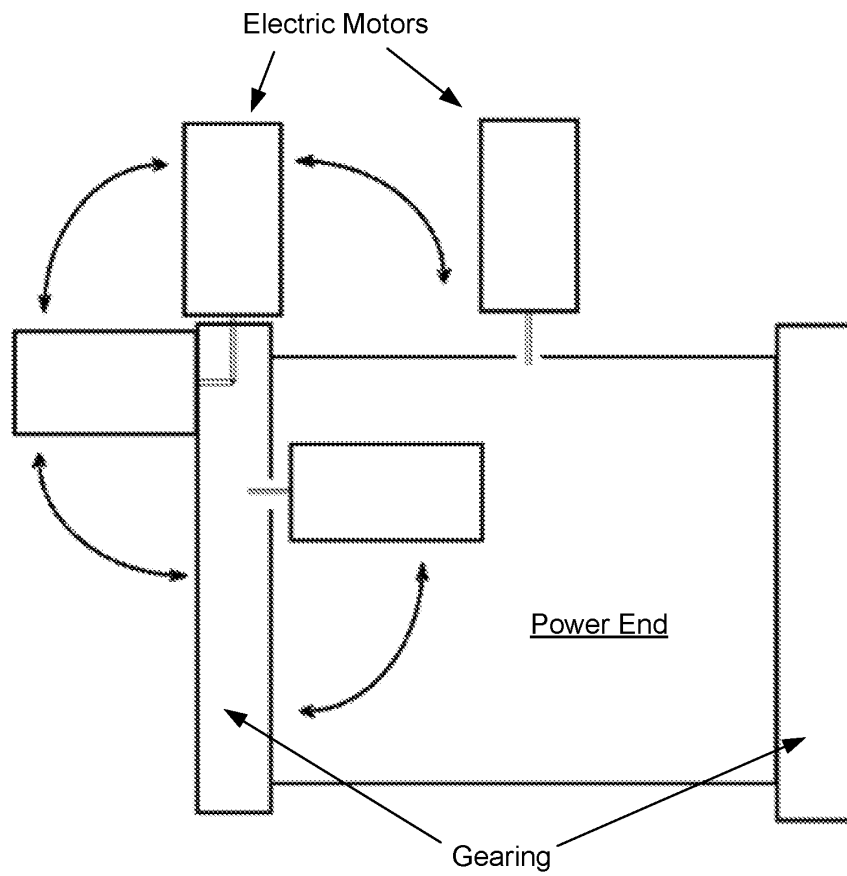


FIG. 1

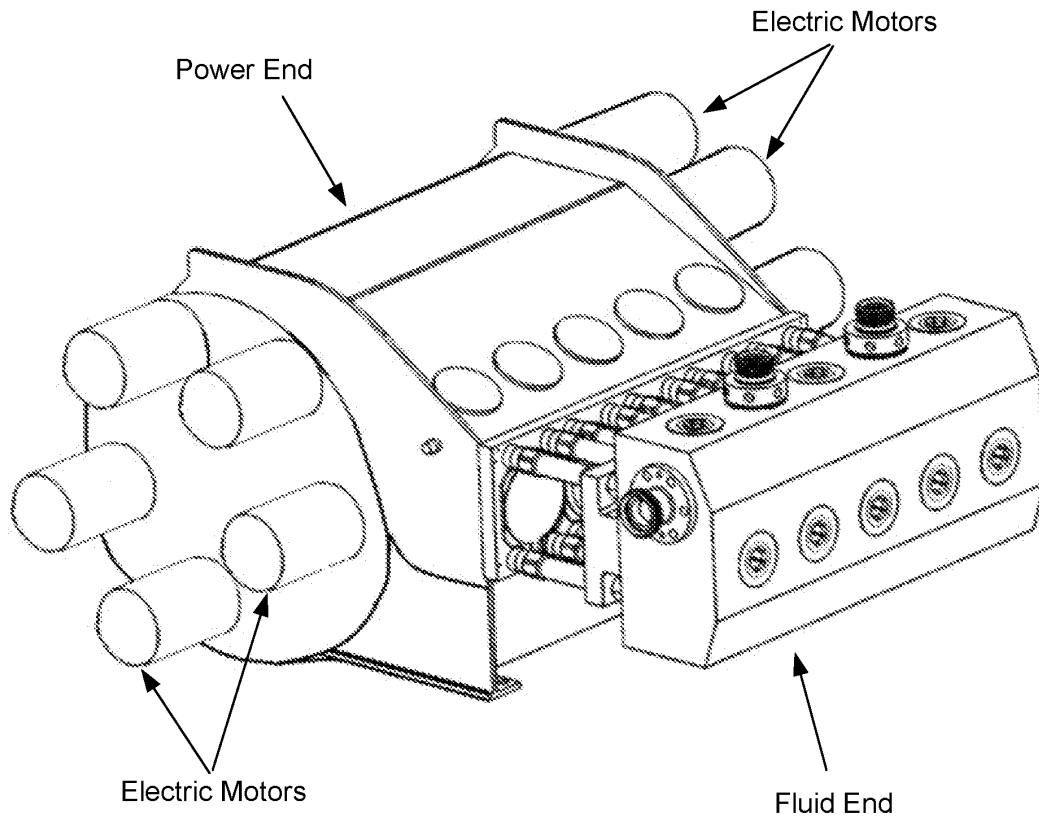


FIG. 2

3 / 4



Example: Tick Over

Motor #	Left Side	Right Side
1	On	On
2	Off	Off
3	Off	Off
4	Off	Off
5	Off	Off
6	Off	Off
7	Off	Off
8	Off	Off
9	Off	Off
10	Off	Off
11	Off	Off
12	Off	Off
13	Off	Off
14	Off	Off

FIG. 3

Example: 50% Required

Motor #	Left Side	Right Side
1	Off	Off
2	On	On
3	Off	Off
4	On	On
5	Off	Off
6	On	On
7	Off	Off
8	On	On
9	Off	Off
10	On	On
11	Off	Off
12	On	On
13	Off	Off
14	On	On

FIG. 4





Example: 100% Required

Motor #	Left Side	Right Side
1	On	On
2	On	On
3	On	On
4	On	On
5	On	On
6	On	On
7	On	On
8	On	On
9	On	On
10	On	On
11	On	On
12	On	On
13	On	On
14	On	On

FIG. 5

Example: 70% Required

Motor #	Left Side	Right Side
1	Off	Off
2	On	On
3	On	On
4	On	On
5	Off	Off
6	On	On
7	On	On
8	On	On
9	Off	Off
10	On	On
11	On	On
12	On	On
13	Off	Off
14	On	On

FIG. 6



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PTO/SB/16 (11-08)

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This is a request for filing a PROVISIONAL APPLICATION FOR PATENT under 37 CFR 1.53(c)

Inventor(s)

Inventor 1

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Given Name	Middle Name	Family Name	City	State	Country i
CHRIS		BUCKLEY	TOMBALL	TX	US

Inventor 2

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Given Name	Middle Name	Family Name	City	State	Country i
PAUL	THOMAS	LIGHTFOOT	STOCKTON BR		UK

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Title of Invention	ELECTRIC DRIVE PUMP FOR WELL STIMULATION
Attorney Docket Number (if applicable)	0486-10685-1

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The invention was made by an agency of the United States Government or under a contract with an agency of the United States Government.

☒ No.

Yes, the invention was made by an agency of the United States Government. The U.S. Government agency name is:

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- ☐ Applicant asserts small entity status under 37 CFR 1.27
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Signature

Please see 37 CFR 1.4(d) for the form of the signature.

Signature	/JOWilliams#67374/		Date (YYYY-MM-DD)	2017-09-25
First Name	Jeffrey	Last Name	Williams	Registration Number (If appropriate)
				67374

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2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
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.
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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.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
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