Electronic Acknowledgement Receipt

EFS ID:	38026453
Application Number:	15867077
International Application Number:	
Confirmation Number:	8753
Title of Invention:	REMOTE CONTROL OF FLUID-HANDLING DEVICES
First Named Inventor/Applicant Name:	Aaron Phillips
Customer Number:	909
Filer:	Joshua L. Tucker/Amanda Childs
Filer Authorized By:	Joshua L. Tucker
Attorney Docket Number:	034392-0456380
Receipt Date:	13-DEC-2019
Filing Date:	10-JAN-2018
Time Stamp:	14:48:33
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Maintenance Fee Address Change	034392-0456380-FAIF13DEC2019.pdf	188416 d96020798c3933b3dc43a48fea16fe0570279698	no	2

Warnings:

Information:	
Total Files Size (in bytes):	188416

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.

New Applications Under 35 U.S.C. 111

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.

National Stage of an International Application under 35 U.S.C. 371

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.

New International Application Filed with the USPTO as a Receiving Office

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.

Doc Code: MFEE.C.AD
Document Description: Maintenance Fee Address Change

PTO/AIA/47 (11-18)
Approved for use through 09/30/2021. OMB 0651-0016
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no person is required to respond to a collection of information unless it displays a valid OMB control number.

"FEE ADDRESS" INDICATION FORM

Address to:
Mail Stop M Correspondence
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

-OR-

Fax to:
571-273-6500

INSTRUCTIONS: The issue fee must have been paid for the application(s) listed on this form. In addition, only an address represented by a Customer Number can be established as the fee address for maintenance fee purposes (hereafter, fee address). A fee address should be established when correspondence related to maintenance fees should be mailed to a different address than the correspondence address for the application.

When to check the first box below: If you have a Customer Number to represent the fee address.

When to check the second box below: If you have no Customer Number representing the desired fee address, in which case a completed Request for Customer Number (PTO/SB/125) must be attached to this form. For more information on Customer Numbers, see the Manual of Patent Examining Procedure (MPEP) § 403.

For the following listed application(s), please recognize as the "Fee Address" under the provisions of 37 CFR 1.363 the address associated with:

☑ Customer Number: 00197

OR

☐ The attached Request for Customer Number form (PTO/SB/125)

PATENT NUMBER (if known)	APPLICATION NUMBER
10,488,871	15/867,077

Completed by (check one):

☐ Applicant/Inventor

☑ Attorney or Agent of record 63,809 (Reg. No.)

☐ Assignee of record of the entire interest. See 37 CFR 3.71. Statement under 37 CFR 3.73(c) (Form PTO/AIA/96) is enclosed or was filed on _____ (Date)

/Joshua Tucker/
Signature

Joshua Tucker
Typed or printed name

512.580.9628
Requester's telephone number

December 13, 2019
Date

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. If the assignee is a juristic entity, this form must be signed by a patent practitioner (attorney or agent) of record. Submit multiple forms if more than one signature is required, see below*.

☐ *Total of _____ forms are submitted

This collection of information is required by 37 CFR 1.363. The information is required to obtain or retain a benefit by the public, which is to indicate (and for the USPTO to process) a fee address. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 5 minutes to complete, including gathering, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND COMPLETED FORMS TO THE PREVIOUS ADDRESS. **SEND COMPLETED FORMS TO: Mail Stop M Correspondence, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

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.

UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/867,077	11/26/2019	10488871	034392-0456380	8753

909 7590 11/06/2019

Pillsbury Winthrop Shaw Pittman, LLP
PO Box 10500
McLean, VA 22102

ISSUE NOTIFICATION

The projected patent number and issue date are specified above.

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(application filed on or after May 29, 2000)

The Patent Term Adjustment is 0 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Application Assistance Unit (AAU) of the Office of Data Management (ODM) at (571)-272-4200.

APPLICANT(s) (Please see PAIR WEB site http://pair.uspto.gov for additional applicants):

Aaron Phillips, Lubbock, TX;
SitePro, Inc., Lubbock, TX;

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 USA offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to encourage and facilitate business investment. To learn more about why the USA is the best country in the world to develop technology, manufacture products, and grow your business, visit SelectUSA.gov.

The Integration Group of The Americas, Ex. 1004-Page 5
SitePro, Inc. v. WaterBridge Resources, LLC, et al
IPR2024-00741-U.S. Patent No. 10,488,871

Electronic Patent Application Fee Transmittal

Application Number:	15867077
Filing Date:	10-Jan-2018
Title of Invention:	REMOTE CONTROL OF FLUID-HANDLING DEVICES
First Named Inventor/Applicant Name:	Aaron Phillips
Filer:	Joshua L. Tucker/Amanda Childs
Attorney Docket Number:	034392-0456380

Filed as Small Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
UTILITY APPL ISSUE FEE	2501	1	500	500
PUBL. FEE- EARLY, VOLUNTARY, OR NORMAL	1504	1	0	0
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
			Total in USD ($)	**500**

Electronic Acknowledgement Receipt

EFS ID:	37484630
Application Number:	15867077
International Application Number:	
Confirmation Number:	8753
Title of Invention:	REMOTE CONTROL OF FLUID-HANDLING DEVICES
First Named Inventor/Applicant Name:	Aaron Phillips
Customer Number:	909
Filer:	Joshua L. Tucker/Amanda Childs
Filer Authorized By:	Joshua L. Tucker
Attorney Docket Number:	034392-0456380
Receipt Date:	17-OCT-2019
Filing Date:	10-JAN-2018
Time Stamp:	17:52:25
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Miscellaneous Incoming Letter	034392-0456380-Comments-on-Reasons-for-Allowance.pdf	110495 82b2025c8d7102b01a98c7ea887caa9845eba883	no	2

Warnings:

Information:	
Total Files Size (in bytes):	110495

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.

New Applications Under 35 U.S.C. 111

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.

National Stage of an International Application under 35 U.S.C. 371

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.

New International Application Filed with the USPTO as a Receiving Office

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.

Electronic Acknowledgement Receipt

EFS ID:	37484661
Application Number:	15867077
International Application Number:	
Confirmation Number:	8753
Title of Invention:	REMOTE CONTROL OF FLUID-HANDLING DEVICES
First Named Inventor/Applicant Name:	Aaron Phillips
Customer Number:	909
Filer:	Joshua L. Tucker/Amanda Childs
Filer Authorized By:	Joshua L. Tucker
Attorney Docket Number:	034392-0456380
Receipt Date:	17-OCT-2019
Filing Date:	10-JAN-2018
Time Stamp:	17:54:39
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	$500
RAM confirmation Number	E20190GH54385487
Deposit Account	033975
Authorized User	Amanda Childs

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

37 CFR 1.20 (Post Issuance fees)

37 CFR 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Issue Fee Payment (PTO-85B)	Web85b.pdf	46121 0404cf5993579d67b6a43308d4aa6340892 5f29e	no	2
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	32041 849566acbe98d16ef56810f323f98173b404 e352	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	78162		

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.

New Applications Under 35 U.S.C. 111

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.

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New International Application Filed with the USPTO as a Receiving Office

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

In re PATENT APPLICATION of: Aaron Phillips	Confirmation Number: 8753
Application No.: 15/867,077	Group Art Unit: 2116
Filed: 10 January 2018	Examiner: Everett, Christopher E.
Title: Remote Control of Fluid-Handling Device	

COMMENTS ON STATEMENT OF REASONS FOR ALLOWANCE

Mail Stop Issue Fee
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Applicant confirms with appreciation the receipt of the Notice of Allowability for this application.

Applicant recognizes that in accordance with M.P.E.P. § 1302.14, the statement of reasons for allowance need not set forth all of the details as to why the claims are allowed.

Consequently, Applicant may assert that the stated reasons for allowance are not the only reasons for which the claims are allowable. The claims may be allowable for other reasons as well.

In addition, Applicant does not concede that all of the limitations identified in the statement are necessary to distinguish the prior art of record or to satisfy the requirements of 35 U.S.C. § 112. In addition, the statement does not assert, and Applicant would not concede, that the stated reasons have any bearing on the patentability of claims in any other application directed to the disclosed subject matter.

4829-3675-9464.v1
The Integration Group of The Americas, Ex. 1004-Page 12
SitePro, Inc. v. WaterBridge Resources, LLC, et al
IPR2024-00741-U.S. Patent No. 10,488,871

In addition, Applicant notes that each dependent claim stands on its own and is allowable on its own merits. In particular, each dependent claim may be allowable on the basis of a combination of some of the features recited in the dependent claim and its base claim(s), which combination of features may not include all of the limitations identified in the reasons for allowance.

These comments are being filed concurrently with payment of the Issue Fee. Please charge any fees, if any, associated with the submission of this paper to Deposit Account Number 033975 (Ref. No. 034392-0456380). The Commissioner for Patents is also authorized to credit any over payments to the above-referenced Deposit Account.

Respectfully submitted,

Date: October 17, 2019

/Joshua Tucker/
Joshua Tucker
Registration No. 63,809
Pillsbury Winthrop Shaw Pittman LLP
P.O. Box 10500
McLean, VA 22102
Phone 512-580-9628

4829-3675-9464.v1
The Integration Group of The Americas, Ex. 1004-Page 13
SitePro, Inc. v. WaterBridge Resources, LLC, et al
IPR2024-00741-U.S. Patent No. 10,488,871

Document Description: Issue Fee Payment (PTO-85B)

Issue Fee Transmittal Form

Application Number	Filing Date	First Named Inventor	Atty. Docket No.	Confirmation No.
15867077	10-Jan-2018	Aaron Phillips	034392-0456380	8753

TITLE OF INVENTION :

REMOTE CONTROL OF FLUID-HANDLING DEVICES

Entity Status	Application Type	Art Unit	Class - Subclass	EXAMINER
Small	Utility under 35 USC 111(a)	2116	282000	CHRISTOPHER EVERETT

Issue Fee Due	Publication Due	Total Fee(s) Due	Date Due	Prev. Paid Fee
$500	$0	$500	18-Oct-2019	$0

1.Change of Correspondence Address and/or Indication Of Fee Address (37 CFR 1.33 & 1.363)

Current Correspondence Address:	Current Indicated Fee Address :
909 Pillsbury Winthrop Shaw Pittman, LLP PO Box 10500 McLean VA 22102 UNITED STATES 703-770-7900 docket_ip@pillsburylaw.com	
☐ Change of correspondence address requested, system generated AIA/122-EFS form attached	☐ Fee Address indication requested, system generated SB/47-EFS form attached

2.Entity Status

Change in Entity Status

○ Applicant certifying micro entity status; system generated Micro Entity certification form attached. See 37 CFR 1.29.
Note: Absent a valid certification of micro entity status, issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment. If this box is checked, you will be prompted to choose a micro entity status on the gross income basis (37 CFR 1.29(a)) or the institution of higher education basis (37 CFR 1.29(d)), and make the applicable certification online.

◉ Applicant asserting small entity status. See 37 CFR 1.27.
Note: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

○ Applicant changing to regular undiscounted fee status.
Note: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

The Integration Group of The Americas, Ex. 1004-Page 14
SitePro, Inc. v. WaterBridge Resources, LLC, et al
IPR2024-00741-U.S. Patent No. 10,488,871

Document Description: Issue Fee Payment (PTO-85B)

3.The Following Fee(s) Are Submitted:

☒ Issue Fee

☐ I authorize USPTO to apply my previously paid issue fee to the current fees due

☐ Publication Fee

☐ The Director is hereby authorized to apply my previously paid issue fee to the current fee due and to charge deficient fees to Deposit Account Number _____

☐ Advance Order - # of copies _____

☒ If **in addition to** the payment of the issue fee amount submitted with this form, there are any discrepancies in any amount(s) due, the Director is authorized to charge any deficiency, or credit any overpayment, to Deposit Account Number 034230 . The **issue fee must be submitted** with this form. **If payment of the issue fee does not accompany this form, checking this box and providing a deposit account number will NOT be effective to satisfy full payment of the fee(s) due.**

4.Firm and/or Attorney Names To Be Printed

NOTE: If no name is listed, no name will be printed
For printing on the patent front page, list to be displayed as entered

1. PILLSBURY WINTHROP SHAW PITTMAN, LLP
2.
3.

5.Assignee Name(s) and Residence Data To Be Printed

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

Name	City	State	Country	Category
SitePro, Inc.	Lubbock	TEXAS	united states	corporation

6.Signature

I certify, in accordance with 37 CFR 1.4(d)(4) that I am an attorney or agent registered to practice before the Patent and Trademark Office who has filed and has been granted power of attorney in this application. I also certify that this Fee(s) Transmittal form is being transmitted to the USPTO via EFS-WEB on the date indicated below.

Signature	/Joshua Tucker/	**Date**	10-17-2019
Name	Joshua Tucker	**Registration Number**	63809

The Integration Group of The Americas, Ex. 1004-Page 15
SitePro, Inc. v. WaterBridge Resources, LLC, et al
IPR2024-00741-U.S. Patent No. 10,488,871

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	11	("20020161685" | "20020169645" | "20030004624" | "20030182463" | "20040088115" | "20040231851" | "20050108504" | "20060240818" | "20080208475" | "20100295673" | "20120316658").PN.	US-PGPUB; USPAT; EPO	OR	ON	2013/02/22 08:35
S2	34	((AARON) near2 (PHILLIPS)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2013/02/22 08:35
S3	5	((AARON) near2 (PHILLIPS)).INV.	EPO; JPO; DERWENT	OR	ON	2013/02/22 08:35
S4	0	(AMPLISINE adj2 LABS).as.	EPO; JPO; DERWENT	OR	ON	2013/02/22 08:36
S5	5	real-time and onsite and internet and communication	EPO; JPO; DERWENT	OR	ON	2013/02/22 08:39
S6	1	("20060149476").PN.	US-PGPUB; USPAT; EPO	OR	OFF	2013/02/22 08:39
S7	1	("20060271299").PN.	US-PGPUB; USPAT; EPO	OR	OFF	2013/02/22 08:40
S8	1	("20030065447").PN.	US-PGPUB; USPAT; EPO	OR	OFF	2013/02/22 08:40
S9	1	("4594665").PN.	US-PGPUB; USPAT; EPO	OR	OFF	2013/02/22 08:40
S10	1	("20050092523").PN.	US-PGPUB; USPAT; EPO	OR	OFF	2013/02/22 08:42
S11	1	("20060047527").PN.	US-PGPUB; USPAT; EPO	OR	OFF	2013/02/22 08:42
S12	53	S1 S2 S3 S4 S5 S6 S7 S8 S9 S10 S11	US-PGPUB; USPAT; EPO	OR	ON	2013/02/22 08:54
S13	17	(US-20090260829-$ or US-20020112860-$ or US-20040262008-$ or US-20070107903-$ or US-20040251030-$).did. or (US-7000693-$ or US-6420976-$ or US-7967066-$ or US-RE41173-$ or US-7148812-$ or US-6768700-$ or US-7845404-$ or US-6913083-$ or US-4636934-$ or US-5732776-$ or US-4052703-$ or US-7958938-$ or US-4755943-$).did.	EPO; JPO; DERWENT	OR	ON	2013/02/22 09:01

S14	1	("7261162").PN.	US-PGPUB; USPAT; EPO	OR	OFF	2013/02/22 09:05
S15	62	("5331318" | "5597042" | "5662165" | "5706892" | "5706896" | "5721538" | "5730219" | "5732776" | "5803167" | "5868201" | "5934371" | "5941307" | "5959547" | "5975204" | "5992250" | "6006832" | "6012015" | "6046685" | "6068053" | "6075462" | "6125938" | "6160492" | "6161618" | "6176312" | "6179057" | "6192980" | "6192988" | "6209640" | "6247536" | "6257332" | "6271766" | "6276454" | "6279660" | "6281489" | "6288975" | "6296066" | "6422315" | "6469636" | "6498988" | "6622799" | "6670880" | "6717501" | "6788980" | "6801135" | "6816082" | "6851444").PN. OR ("7261162").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2013/02/22 09:05
S16	1	("20040262008").PN.	US-PGPUB; USPAT; EPO	OR	OFF	2013/02/22 09:05
S17	1	("7148812").PN.	US-PGPUB; USPAT; EPO	OR	OFF	2013/02/22 09:08
S18	1	("7958938").PN.	US-PGPUB; USPAT; EPO	OR	OFF	2013/02/22 09:08
S19	1	("7967066").PN.	US-PGPUB; USPAT; EPO	OR	OFF	2013/02/22 09:08
S20	1	("7845404").PN.	US-PGPUB; USPAT; EPO	OR	OFF	2013/02/22 09:08
S21	1	("6913083").PN.	US-PGPUB; USPAT; EPO	OR	OFF	2013/02/22 09:09
S22	1	("20020112860").PN.	US-PGPUB; USPAT; EPO	OR	OFF	2013/02/22 09:09
S23	1	("5732776").PN.	US-PGPUB; USPAT; EPO	OR	OFF	2013/02/22 09:10
S24	1	("4052703").PN.	US-PGPUB; USPAT; EPO	OR	OFF	2013/02/22 09:11
S25	20	(US-20040262008-$ or US-20120316658-$ or US-20080208475-$ or US-20060271299-$ or US-20060240818-$ or US-20050092523-$ or US-20040231851-$ or US-20040088115-$ or US-20030182463-$ or US-20020169645-$ or US-20020112860-$).did. or (US-7148812-$ or US-7958938-$ or US-7967066-$ or US-7845404-$ or US-6913083-$ or US-5732776-$ or US-4052703-$ or US-8179279-$).did. or (WO-2008124765-$).did.	US-PGPUB; USPAT; EPO	OR	ON	2013/02/25 15:50

S26	0	S25 and (oil near2 water near2 separation)	US-PGPUB; USPAT; EPO	OR	ON	2013/02/25 15:50
S27	7	S25 and (oil near2 water)	US-PGPUB; USPAT; EPO	OR	ON	2013/02/25 15:51
S28	4518	(oil near2 water near2 separation)	US-PGPUB; USPAT; EPO	OR	ON	2013/02/25 15:52
S29	2295	S28 and pump	US-PGPUB; USPAT; EPO	OR	ON	2013/02/25 15:53
S30	839	S29 and (oil near2 well)	US-PGPUB; USPAT; EPO	OR	ON	2013/02/25 15:53
S31	239	S30 and (oil near2 level)	US-PGPUB; USPAT; EPO	OR	ON	2013/02/25 15:54
S32	2	S31 and ("700"/$.ccls. "702"/$.ccls.)	US-PGPUB; USPAT; EPO	OR	ON	2013/02/25 15:54
S33	4284	700/1,282,275,281,42.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2013/02/26 10:07
S34	5841	702/6,13,183,188.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2013/02/26 10:07
S35	18470	709/224.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2013/02/26 10:07
S36	767	166/336,363,250.1.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2013/02/26 10:07
S37	463	340/853.3,853.2,856.3.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2013/02/26 10:08
S38	29579	S33 S34 S35 S36 S37	US-PGPUB; USPAT; EPO	OR	ON	2013/02/26 10:08
S39	168445	(oil hydrocarbon (hydro adj2 carbon) gas) near2 (well site disposal station)	US-PGPUB; USPAT; EPO	OR	ON	2013/02/26 10:08
S40	2119066	(controller control device) near2 (operate operat$4 adjust drive move close)	US-PGPUB; USPAT; EPO	OR	ON	2013/02/26 10:10

S41	1404	S38 and S39	US-PGPUB; USPAT; EPO	OR	ON	2013/02/26 10:10
S42	1837654	(internet network (web adj2 server))	US-PGPUB; USPAT; EPO	OR	ON	2013/02/26 10:11
S43	579	S41 and (internet network (web adj2 server))	US-PGPUB; USPAT; EPO	OR	ON	2013/02/26 10:11
S44	15604	(local autonomous independent) near2 (controller control device) near2 (operate operat$4 adjust drive move close)	US-PGPUB; USPAT; EPO	OR	ON	2013/02/26 10:12
S45	642	S40 and S41	US-PGPUB; USPAT; EPO	OR	ON	2013/02/26 10:12
S46	315	S45 and S42	US-PGPUB; USPAT; EPO	OR	ON	2013/02/26 10:12
S47	337	S39 and S44	US-PGPUB; USPAT; EPO	OR	ON	2013/02/26 10:12
S48	6	S46 and S47	US-PGPUB; USPAT; EPO	OR	ON	2013/02/26 10:12
S49	2	("2010/0147510").URPN.	USPAT	OR	ON	2013/02/26 10:13
S50	62	("5331318" | "5597042" | "5662165" | "5706892" | "5706896" | "5721538" | "5730219" | "5732776" | "5803167" | "5868201" | "5934371" | "5941307" | "5959547" | "5975204" | "5992250" | "6006832" | "6012015" | "6046685" | "6068053" | "6075462" | "6125938" | "6160492" | "6161618" | "6176312" | "6179057" | "6192980" | "6192988" | "6209640" | "6247536" | "6257332" | "6271766" | "6276454" | "6279660" | "6281489" | "6288975" | "6296066" | "6422315" | "6469636" | "6498988" | "6622799" | "6670880" | "6717501" | "6788980" | "6801135" | "6816082" | "6851444").PN. OR ("7261162").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2013/02/26 10:14
S51	11	("5941305" | "5959547" | "5978749" | "6061603" | "6670880").PN. OR ("6801135").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2013/02/26 10:18
S52	10	S39 and S44 and S38	US-PGPUB; USPAT; EPO	OR	ON	2013/02/26 10:21
S53	337	S39 and S44	US-PGPUB; USPAT; EPO	OR	ON	2013/02/26 10:22
S54	203	S53 and (internet network (web adj2 server))	US-PGPUB; USPAT;	OR	ON	2013/02/26 10:22

			EPO			
S55	387	(local autonomous independent) and S45	US-PGPUB; USPAT; EPO	OR	ON	2013/02/26 10:25
S56	381	S55 not S54	US-PGPUB; USPAT; EPO	OR	ON	2013/02/26 10:25
S57	501662	(remote internet network) near2 (control monitor control$4 monitor$4 command)	US-PGPUB; USPAT; EPO	OR	ON	2013/02/26 10:28
S58	8886	S57 and S39	US-PGPUB; USPAT; EPO	OR	ON	2013/02/26 10:29
S59	106	S58 and S44	US-PGPUB; USPAT; EPO	OR	ON	2013/02/26 10:29
S60	44	("20030004624" | "20040088115" | "20100147510" | "5732776" | "7931090" | "7967066" | "8312320" | "20130144531" | "8301386" | "20050108504" | "20100295673" | "20110231024" | "6061603" | "8386059" | "20100098507" | "20030182463" | "4052703" | "6192980" | "7958938" | "8373418" | "20130024026" | "20040231851" | "20060240818" | "7148812" | "7289994" | "20120316658" | "20040262008" | "7921916" | "8131510" | "8290737" | "20100326654" | "20020161685" | "20090149969" | "7845404" | "8179279" | "20020112860" | "20050096846" | "5149443" | "6801135" | "6913083" | "20130008645" | "20020169645" | "20080208475" | "7591308").PN.	US-PGPUB; USPAT; EPO	OR	ON	2013/06/11 13:22
S61	37	(US-20040262008-$ or US-20020112860-$ or US-20090149969-$ or US-20100147510-$ or US-20050096846-$ or US-20110231024-$ or US-20120316658-$ or US-20080208475-$ or US-20060271299-$ or US-20060240818-$ or US-20050092523-$ or US-20040231851-$ or US-20040088115-$ or US-20030182463-$ or US-20020169645-$ or US-20020161685-$).did. or (US-7148812-$ or US-7958938-$ or US-7967066-$ or US-7845404-$ or US-6913083-$ or US-5732776-$ or US-4052703-$ or US-8179279-$ or US-5149443-$ or US-8386059-$ or US-8131510-$ or US-7289994-$ or US-8373418-$ or US-8312320-$ or US-8290737-$ or US-7931090-$ or US-7921916-$ or US-6801135-$ or US-6061603-$ or US-6192980-$).did. or (WO-2008124765-$).did.	US-PGPUB; USPAT; EPO	OR	ON	2013/06/12 07:58
S62	0	S61 and oscillate	US-PGPUB; USPAT; EPO	OR	ON	2013/06/12 07:58
S63	1	S61 and (stuck adj3 valve)	US-PGPUB; USPAT; EPO	OR	ON	2013/06/12 07:59
S64	4400	700/1,282,275,281,42.ccls.	US-PGPUB; USPAT;	OR	ON	2013/06/12 08:10

			EPO			
S65	5969	702/6,13,183,188.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2013/06/12 08:10
S66	19220	709/224.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2013/06/12 08:10
S67	804	166/336,363,250.1.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2013/06/12 08:10
S68	475	340/853.3,853.2,856.3.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2013/06/12 08:10
S69	30612	S64 S65 S66 S67 S68	US-PGPUB; USPAT; EPO	OR	ON	2013/06/12 08:10
S70	172242	(oil hydrocarbon (hydro adj2 carbon) gas) near2 (well site disposal station)	US-PGPUB; USPAT; EPO	OR	ON	2013/06/12 08:10
S71	241	S69 and S70 and "240"	US-PGPUB; USPAT; EPO	OR	ON	2013/06/12 08:10
S72	2175607	(controller control device) near2 (operate operat$4 adjust drive move close)	US-PGPUB; USPAT; EPO	OR	ON	2013/06/12 08:11
S73	664	S69 and S70 and S72	US-PGPUB; USPAT; EPO	OR	ON	2013/06/12 08:11
S74	6	S73 and (inoperative in-operative stuck) adj3 (valve part)	US-PGPUB; USPAT; EPO	OR	ON	2013/06/12 08:11
S75	94	S70 and (stuck) adj3 (valve)	US-PGPUB; USPAT; EPO	OR	ON	2013/06/12 08:14
S76	94	S70 and ((stuck) adj3 (valve))	US-PGPUB; USPAT; EPO	OR	ON	2013/06/12 08:14
S77	109	S70 and ((frozen froze stuck) adj3 (valve))	US-PGPUB; USPAT; EPO	OR	ON	2013/06/12 08:19
S78	12	((move jerk oscillate move) near2 ((frozen froze stuck) adj3 (valve)))	US-PGPUB; USPAT; EPO	OR	ON	2013/06/12 08:21
S79	1	("4823749").PN.	US-PGPUB; USPAT;	OR	OFF	2013/06/12 08:22

			EPO			
S80	1	("20010032518").PN.	US-PGPUB; USPAT; EPO	OR	OFF	2013/06/12 10:53
S81	35	((AARON) near2 (PHILLIPS)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2013/06/12 11:14
S82	5	((AARON) near2 (PHILLIPS)).INV.	EPO; JPO; DERWENT	OR	ON	2013/06/12 11:14
S83	0	(AMPLISINE adj2 LABS).as.	EPO; JPO; DERWENT	OR	ON	2013/06/12 11:14
S84	5	real-time and onsite and internet and communication	EPO; JPO; DERWENT	OR	ON	2013/06/12 11:14
S85	20	(US-20040262008-$ or US-20120316658-$ or US-20080208475-$ or US-20060271299-$ or US-20060240818-$ or US-20050092523-$ or US-20040231851-$ or US-20040088115-$ or US-20030182463-$ or US-20020169645-$ or US-20020112860-$).did. or (US-7148812-$ or US-7958938-$ or US-7967066-$ or US-7845404-$ or US-6913083-$ or US-5732776-$ or US-4052703-$ or US-8179279-$).did. or (WO-2008124765-$).did.	US-PGPUB; USPAT; EPO	OR	ON	2013/06/12 11:14
S86	0	S85 and (oil near2 water near2 separation)	US-PGPUB; USPAT; EPO	OR	ON	2013/06/12 11:14
S87	7	S85 and (oil near2 water)	US-PGPUB; USPAT; EPO	OR	ON	2013/06/12 11:14
S88	4795	(oil near2 water near2 separation)	US-PGPUB; USPAT; EPO	OR	ON	2013/06/12 11:14
S89	2432	S88 and pump	US-PGPUB; USPAT; EPO	OR	ON	2013/06/12 11:14
S90	889	S89 and (oil near2 well)	US-PGPUB; USPAT; EPO	OR	ON	2013/06/12 11:14
S91	246	S90 and (oil near2 level)	US-PGPUB; USPAT; EPO	OR	ON	2013/06/12 11:14
S92	2	S91 and ("700"/$.ccls. "702"/$.ccls.)	US-PGPUB; USPAT; EPO	OR	ON	2013/06/12 11:14
S93	1458	S69 and S70	US-PGPUB; USPAT; EPO	OR	ON	2013/06/12 11:14
S94	1900176	(internet network (web adj2 server))	US-PGPUB; USPAT; EPO	OR	ON	2013/06/12 11:14

S95	16083	(local autonomous independent) near2 (controller control device) near2 (operate operat$4 adjust drive move close)	US-PGPUB; USPAT; EPO	OR	ON	2013/06/12 11:14
S96	664	S72 and S93	US-PGPUB; USPAT; EPO	OR	ON	2013/06/12 11:14
S97	327	S96 and S94	US-PGPUB; USPAT; EPO	OR	ON	2013/06/12 11:14
S98	343	S70 and S95	US-PGPUB; USPAT; EPO	OR	ON	2013/06/12 11:14
S99	6	S97 and S98	US-PGPUB; USPAT; EPO	OR	ON	2013/06/12 11:14
S100	10	S70 and S95 and S69	US-PGPUB; USPAT; EPO	OR	ON	2013/06/12 11:14
S101	528886	(remote internet network) near2 (control monitor control$4 monitor$4 command)	US-PGPUB; USPAT; EPO	OR	ON	2013/06/12 11:14
S102	9459	S101 and S70	US-PGPUB; USPAT; EPO	OR	ON	2013/06/12 11:14
S103	110	S102 and S95	US-PGPUB; USPAT; EPO	OR	ON	2013/06/12 11:14
S104	158	S81 S82 S83 S84 S86 S87 S92 S99 S100 S103	US-PGPUB; USPAT; EPO	OR	ON	2013/06/12 11:14
S105	16	("2004/0262008").URPN.	USPAT	OR	ON	2013/10/25 12:32
S106	9	("20040262008" | "20050035875" | "4701756" | "5959547" | "6229453" | "6816082").PN. OR ("7148812").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2013/10/25 12:39
S107	1	("5959547").PN.	US-PGPUB; USPAT; EPO	OR	OFF	2013/10/25 12:45
S108	4578	700/1,282,275,281,42.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2013/10/25 12:46
S109	6150	702/6,13,183,188.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2013/10/25 12:46
S110	20349	709/224.ccls.	US-PGPUB;	OR	ON	2013/10/25 12:46

			USPAT; EPO			
S111	850	166/336,363,250.1.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2013/10/25 12:46
S112	486	340/853.3,853.2,856.3.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2013/10/25 12:46
S113	32148	S108 S109 S110 S111 S112	US-PGPUB; USPAT; EPO	OR	ON	2013/10/25 12:46
S114	177528	(oil hydrocarbon (hydro adj2 carbon) gas) near2 (well site disposal station)	US-PGPUB; USPAT; EPO	OR	ON	2013/10/25 12:46
S115	2253717	(controller control device) near2 (operate operat$4 adjust drive move close)	US-PGPUB; USPAT; EPO	OR	ON	2013/10/25 12:46
S116	36	((AARON) near2 (PHILLIPS)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2013/10/25 12:46
S117	5	((AARON) near2 (PHILLIPS)).INV.	EPO; JPO; DERWENT	OR	ON	2013/10/25 12:46
S118	0	(AMPLISINE adj2 LABS).as.	EPO; JPO; DERWENT	OR	ON	2013/10/25 12:46
S119	5	real-time and onsite and internet and communication	EPO; JPO; DERWENT	OR	ON	2013/10/25 12:46
S120	20	(US-20040262008-$ or US-20120316658-$ or US-20080208475-$ or US-20060271299-$ or US-20060240818-$ or US-20050092523-$ or US-20040231851-$ or US-20040088115-$ or US-20030182463-$ or US-20020169645-$ or US-20020112860-$).did. or (US-7148812-$ or US-7958938-$ or US-7967066-$ or US-7845404-$ or US-6913083-$ or US-5732776-$ or US-4052703-$ or US-8179279-$).did. or (WO-2008124765-$).did.	US-PGPUB; USPAT; EPO	OR	ON	2013/10/25 12:46
S121	0	S120 and (oil near2 water near2 separation)	US-PGPUB; USPAT; EPO	OR	ON	2013/10/25 12:46
S122	7	S120 and (oil near2 water)	US-PGPUB; USPAT; EPO	OR	ON	2013/10/25 12:46
S123	4935	(oil near2 water near2 separation)	US-PGPUB; USPAT; EPO	OR	ON	2013/10/25 12:46
S124	2501	S123 and pump	US-PGPUB; USPAT; EPO	OR	ON	2013/10/25 12:46
S125	917	S124 and (oil near2 well)	US-PGPUB; USPAT;	OR	ON	2013/10/25 12:46

			EPO			
S126	257	S125 and (oil near2 level)	US-PGPUB; USPAT; EPO	OR	ON	2013/10/25 12:46
S127	2	S126 and ("700"/$.ccls. "702"/$.ccls.)	US-PGPUB; USPAT; EPO	OR	ON	2013/10/25 12:46
S128	1540	S113 and S114	US-PGPUB; USPAT; EPO	OR	ON	2013/10/25 12:46
S129	1987225	(internet network (web adj2 server))	US-PGPUB; USPAT; EPO	OR	ON	2013/10/25 12:46
S130	16785	(local autonomous independent) near2 (controller control device) near2 (operate operat$4 adjust drive move close)	US-PGPUB; USPAT; EPO	OR	ON	2013/10/25 12:46
S131	707	S115 and S128	US-PGPUB; USPAT; EPO	OR	ON	2013/10/25 12:46
S132	351	S131 and S129	US-PGPUB; USPAT; EPO	OR	ON	2013/10/25 12:46
S133	357	S114 and S130	US-PGPUB; USPAT; EPO	OR	ON	2013/10/25 12:46
S134	6	S132 and S133	US-PGPUB; USPAT; EPO	OR	ON	2013/10/25 12:46
S135	10	S114 and S130 and S113	US-PGPUB; USPAT; EPO	OR	ON	2013/10/25 12:46
S136	553323	(remote internet network) near2 (control monitor control$4 monitor$4 command)	US-PGPUB; USPAT; EPO	OR	ON	2013/10/25 12:46
S137	9948	S136 and S114	US-PGPUB; USPAT; EPO	OR	ON	2013/10/25 12:46
S138	117	S137 and S130	US-PGPUB; USPAT; EPO	OR	ON	2013/10/25 12:46
S139	166	S116 S117 S118 S119 S121 S122 S127 S134 S135 S138	US-PGPUB; USPAT; EPO	OR	ON	2013/10/25 12:46
S140	166	S139	US-PGPUB; USPAT;	OR	ON	2013/10/25 12:46

			EPO			
S144	4914	700/1,282,275,281,42.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2014/07/22 16:19
S145	6494	702/6,13,183,188.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2014/07/22 16:19
S146	22712	709/224.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2014/07/22 16:19
S147	948	166/336,363,250.1.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2014/07/22 16:19
S148	511	340/853.3,853.2,856.3.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2014/07/22 16:19
S149	35297	S144 S145 S146 S147 S148	US-PGPUB; USPAT; EPO	OR	ON	2014/07/22 16:19
S150	188122	(oil hydrocarbon (hydro adj2 carbon) gas) near2 (well site disposal station)	US-PGPUB; USPAT; EPO	OR	ON	2014/07/22 16:19
S151	2416039	(controller control device) near2 (operate operat$4 adjust drive move close)	US-PGPUB; USPAT; EPO	OR	ON	2014/07/22 16:19
S152	38	((AARON) near2 (PHILLIPS)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2014/07/22 16:19
S153	5	((AARON) near2 (PHILLIPS)).INV.	EPO; JPO; DERWENT	OR	ON	2014/07/22 16:19
S154	2	(AMPLISINE adj2 LABS).as.	EPO; JPO; DERWENT	OR	ON	2014/07/22 16:19
S155	5	real-time and onsite and internet and communication	EPO; JPO; DERWENT	OR	ON	2014/07/22 16:19
S156	20	(US-20040262008-$ or US-20120316658-$ or US-20080208475-$ or US-20060271299-$ or US-20060240818-$ or US-20050092523-$ or US-20040231851-$ or US-20040088115-$ or US-20030182463-$ or US-20020169645-$ or US-20020112860-$).did. or (US-7148812-$ or US-7958938-$ or US-7967066-$ or US-7845404-$ or US-6913083-$ or US-5732776-$ or US-4052703-$ or US-8179279-$).did. or (WO-2008124765-$).did.	US-PGPUB; USPAT; EPO	OR	ON	2014/07/22 16:19
S157	0	S156 and (oil near2 water near2 separation)	US-PGPUB; USPAT; EPO	OR	ON	2014/07/22 16:19
S158	7	S156 and (oil near2 water)	US-PGPUB; USPAT; EPO	OR	ON	2014/07/22 16:19

S159	5262	(oil near2 water near2 separation)	US-PGPUB; USPAT; EPO	OR	ON	2014/07/22 16:19
S160	2663	S159 and pump	US-PGPUB; USPAT; EPO	OR	ON	2014/07/22 16:19
S161	969	S160 and (oil near2 well)	US-PGPUB; USPAT; EPO	OR	ON	2014/07/22 16:19
S162	268	S161 and (oil near2 level)	US-PGPUB; USPAT; EPO	OR	ON	2014/07/22 16:19
S163	4	S162 and ("700"/$.ccls. "702"/$.ccls.)	US-PGPUB; USPAT; EPO	OR	ON	2014/07/22 16:19
S164	1686	S149 and S150	US-PGPUB; USPAT; EPO	OR	ON	2014/07/22 16:19
S165	2171012	(internet network (web adj2 server))	US-PGPUB; USPAT; EPO	OR	ON	2014/07/22 16:19
S166	18312	(local autonomous independent) near2 (controller control device) near2 (operate operat$4 adjust drive move close)	US-PGPUB; USPAT; EPO	OR	ON	2014/07/22 16:19
S167	776	S151 and S164	US-PGPUB; USPAT; EPO	OR	ON	2014/07/22 16:19
S168	390	S167 and S165	US-PGPUB; USPAT; EPO	OR	ON	2014/07/22 16:19
S169	383	S150 and S166	US-PGPUB; USPAT; EPO	OR	ON	2014/07/22 16:19
S170	8	S168 and S169	US-PGPUB; USPAT; EPO	OR	ON	2014/07/22 16:19
S171	12	S150 and S166 and S149	US-PGPUB; USPAT; EPO	OR	ON	2014/07/22 16:19
S172	605853	(remote internet network) near2 (control monitor control$4 monitor$4 command)	US-PGPUB; USPAT; EPO	OR	ON	2014/07/22 16:19
S173	10936	S172 and S150	US-PGPUB; USPAT; EPO	OR	ON	2014/07/22 16:19

S174	129	S173 and S166	US-PGPUB; USPAT; EPO	OR	ON	2014/07/22 16:19
S175	178	S152 S153 S154 S155 S157 S158 S163 S170 S171 S174	US-PGPUB; USPAT; EPO	OR	ON	2014/07/22 16:19
S176	178	S175	US-PGPUB; USPAT; EPO	OR	ON	2014/07/22 16:19
S177	178	S176	US-PGPUB; USPAT; EPO	OR	ON	2014/07/22 16:19
S178	2489	G05D7/0676;G05B9/02;E21B47/00;G05B2219/23472.cpc.	US-PGPUB; USPAT; EPO	OR	ON	2014/07/22 16:20
S179	645	S178 and S150	US-PGPUB; USPAT; EPO	OR	ON	2014/07/22 16:28
S180	452	S179 and (oil near2 well)	US-PGPUB; USPAT; EPO	OR	ON	2014/07/22 16:28
S182	15	S180 and (oil near2 level)	US-PGPUB; USPAT; EPO	OR	ON	2014/07/22 16:28
S183	16	S178 and S166 and S165	US-PGPUB; USPAT; EPO	OR	ON	2014/07/22 16:29
S184	204	S182 S183 S177	US-PGPUB; USPAT; EPO	OR	ON	2014/07/22 16:29
S185	23	("4007450" | "4888726" | "5560005" | "5724575" | "5828851" | "5838563" | "5845230" | "5956483" | "6000045" | "6131120" | "6263487" | "6701437" | "6799077").PN. OR ("7289994").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2015/02/23 16:41
S186	1	("20090055029").PN.	US-PGPUB; USPAT; EPO	OR	OFF	2015/03/06 14:23
S187	46	(US-20120316658-$ or US-20080208475-$ or US-20060271299-$ or US-20060240818-$ or US-20050092523-$ or US-20040231851-$ or US-20040088115-$ or US-20030182463-$ or US-20020169645-$ or US-20040262008-$ or US-20020112860-$ or US-20090149969-$ or US-20100147510-$ or US-20050096846-$ or US-20110231024-$ or US-20020161685-$ or US-20120310582-$ or US-20010032518-$ or US-20140163749-$ or US-20090055029-$).did. or (US-7148812-$ or US-7958938-$ or US-7967066-$ or US-7845404-$ or US-6913083-$ or US-5732776-$ or US-4052703-$ or US-8179279-$ or US-5149443-$ or US-	US-PGPUB; USPAT; EPO	OR	ON	2015/03/06 14:45

		8386059-$ or US-8131510-$ or US-7289994-$ or US-8373418-$ or US-8312320-$ or US-8290737-$ or US-7931090-$ or US-7921916-$ or US-6801135-$ or US-6061603-$ or US-6192980-$ or US-6435022-$ or US-4823749-$ or US-8208478-$ or US-7347271-$ or US-5959547-$).did. or (WO-2008124765-$).did.				
S188	2	S187 and pid	US-PGPUB; USPAT; EPO	OR	ON	2015/03/06 14:45
S189	5307	700/1,282,275,281,42.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2015/03/06 16:10
S190	6733	702/6,13,183,188.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2015/03/06 16:10
S191	24915	709/224.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2015/03/06 16:10
S192	1044	166/336,363,250.1.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2015/03/06 16:10
S193	530	340/853.3,853.2,856.3.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2015/03/06 16:10
S194	38241	S189 S190 S191 S192 S193	US-PGPUB; USPAT; EPO	OR	ON	2015/03/06 16:10
S195	197343	(oil hydrocarbon (hydro adj2 carbon) gas) near2 (well site disposal station)	US-PGPUB; USPAT; EPO	OR	ON	2015/03/06 16:10
S196	2561451	(controller control device) near2 (operate operat$4 adjust drive move close)	US-PGPUB; USPAT; EPO	OR	ON	2015/03/06 16:10
S197	39	((AARON) near2 (PHILLIPS)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2015/03/06 16:10
S198	5	((AARON) near2 (PHILLIPS)).INV.	EPO; JPO; DERWENT	OR	ON	2015/03/06 16:10
S199	2	(AMPLISINE adj2 LABS).as.	EPO; JPO; DERWENT	OR	ON	2015/03/06 16:10
S200	6	real-time and onsite and internet and communication	EPO; JPO; DERWENT	OR	ON	2015/03/06 16:10
S201	20	(US-20040262008-$ or US-20120316658-$ or US-20080208475-$ or US-20060271299-$ or US-20060240818-$ or US-20050092523-$ or US-20040231851-$ or US-20040088115-$ or US-20030182463-$ or US-20020169645-$ or US-20020112860-$).did. or (US-7148812-$ or US-7958938-$ or US-7967066-$ or US-7845404-$ or US-6913083-$ or US-5732776-$ or US-4052703-$ or US-8179279-$).did. or	US-PGPUB; USPAT; EPO	OR	ON	2015/03/06 16:10

		(WO-2008124765-$).did.				
S202	0	S201 and (oil near2 water near2 separation)	US-PGPUB; USPAT; EPO	OR	ON	2015/03/06 16:10
S203	7	S201 and (oil near2 water)	US-PGPUB; USPAT; EPO	OR	ON	2015/03/06 16:10
S204	5538	(oil near2 water near2 separation)	US-PGPUB; USPAT; EPO	OR	ON	2015/03/06 16:10
S205	2804	S204 and pump	US-PGPUB; USPAT; EPO	OR	ON	2015/03/06 16:10
S206	1031	S205 and (oil near2 well)	US-PGPUB; USPAT; EPO	OR	ON	2015/03/06 16:10
S207	287	S206 and (oil near2 level)	US-PGPUB; USPAT; EPO	OR	ON	2015/03/06 16:10
S208	4	S207 and ("700"/$.ccls. "702"/$.ccls.)	US-PGPUB; USPAT; EPO	OR	ON	2015/03/06 16:10
S209	1822	S194 and S195	US-PGPUB; USPAT; EPO	OR	ON	2015/03/06 16:10
S210	2334181	(internet network (web adj2 server))	US-PGPUB; USPAT; EPO	OR	ON	2015/03/06 16:10
S211	19758	(local autonomous independent) near2 (controller control device) near2 (operate operat$4 adjust drive move close)	US-PGPUB; USPAT; EPO	OR	ON	2015/03/06 16:10
S212	846	S196 and S209	US-PGPUB; USPAT; EPO	OR	ON	2015/03/06 16:10
S213	432	S212 and S210	US-PGPUB; USPAT; EPO	OR	ON	2015/03/06 16:10
S214	411	S195 and S211	US-PGPUB; USPAT; EPO	OR	ON	2015/03/06 16:10
S215	10	S213 and S214	US-PGPUB; USPAT; EPO	OR	ON	2015/03/06 16:10
S216	17	S195 and S211 and S194	US-PGPUB; USPAT;	OR	ON	2015/03/06 16:10

			EPO			
S217	652812	(remote internet network) near2 (control monitor control$4 monitor$4 command)	US-PGPUB; USPAT; EPO	OR	ON	2015/03/06 16:10
S218	11860	S217 and S195	US-PGPUB; USPAT; EPO	OR	ON	2015/03/06 16:10
S219	139	S218 and S211	US-PGPUB; USPAT; EPO	OR	ON	2015/03/06 16:10
S220	192	S197 S198 S199 S200 S202 S203 S208 S215 S216 S219	US-PGPUB; USPAT; EPO	OR	ON	2015/03/06 16:10
S221	192	S220	US-PGPUB; USPAT; EPO	OR	ON	2015/03/06 16:10
S222	192	S221	US-PGPUB; USPAT; EPO	OR	ON	2015/03/06 16:10
S223	2737	G05D7/0676;G05B9/02;E21B47/00;G05B2219/23472.cpc.	US-PGPUB; USPAT; EPO	OR	ON	2015/03/06 16:10
S224	706	S223 and S195	US-PGPUB; USPAT; EPO	OR	ON	2015/03/06 16:10
S225	492	S224 and (oil near2 well)	US-PGPUB; USPAT; EPO	OR	ON	2015/03/06 16:10
S226	16	S225 and (oil near2 level)	US-PGPUB; USPAT; EPO	OR	ON	2015/03/06 16:10
S227	16	S223 and S211 and S210	US-PGPUB; USPAT; EPO	OR	ON	2015/03/06 16:10
S228	219	S226 S227 S222	US-PGPUB; USPAT; EPO	OR	ON	2015/03/06 16:10
S229	219	S228	US-PGPUB; USPAT; EPO	OR	ON	2015/03/06 16:10
S230	5577	700/1,282,275,281,42.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2015/09/21 08:46
S231	6864	702/6,13,183,188.ccls.	US-PGPUB; USPAT;	OR	ON	2015/09/21 08:46

			EPO			
S232	25873	709/224.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2015/09/21 08:46
S233	1107	166/336,363,250.1.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2015/09/21 08:46
S234	547	340/853.3,853.2,856.3.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2015/09/21 08:46
S235	39674	S230 S231 S232 S233 S234	US-PGPUB; USPAT; EPO	OR	ON	2015/09/21 08:46
S236	205047	(oil hydrocarbon (hydro adj2 carbon) gas) near2 (well site disposal station)	US-PGPUB; USPAT; EPO	OR	ON	2015/09/21 08:46
S237	2685982	(controller control device) near2 (operate operat$4 adjust drive move close)	US-PGPUB; USPAT; EPO	OR	ON	2015/09/21 08:46
S238	43	((AARON) near2 (PHILLIPS)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2015/09/21 08:46
S239	5	((AARON) near2 (PHILLIPS)).INV.	EPO; JPO; DERWENT	OR	ON	2015/09/21 08:46
S240	3	(AMPLISINE adj2 LABS).as.	EPO; JPO; DERWENT	OR	ON	2015/09/21 08:46
S241	6	real-time and onsite and internet and communication	EPO; JPO; DERWENT	OR	ON	2015/09/21 08:46
S242	20	(US-20040262008-$ or US-20120316658-$ or US-20080208475-$ or US-20060271299-$ or US-20060240818-$ or US-20050092523-$ or US-20040231851-$ or US-20040088115-$ or US-20030182463-$ or US-20020169645-$ or US-20020112860-$).did. or (US-7148812-$ or US-7958938-$ or US-7967066-$ or US-7845404-$ or US-6913083-$ or US-5732776-$ or US-4052703-$ or US-8179279-$).did. or (WO-2008124765-$).did.	US-PGPUB; USPAT; EPO	OR	ON	2015/09/21 08:46
S243	0	S242 and (oil near2 water near2 separation)	US-PGPUB; USPAT; EPO	OR	ON	2015/09/21 08:46
S244	7	S242 and (oil near2 water)	US-PGPUB; USPAT; EPO	OR	ON	2015/09/21 08:46
S245	5794	(oil near2 water near2 separation)	US-PGPUB; USPAT; EPO	OR	ON	2015/09/21 08:46
S246	2926	S245 and pump	US-PGPUB; USPAT; EPO	OR	ON	2015/09/21 08:46

S247	1087	S246 and (oil near2 well)	US-PGPUB; USPAT; EPO	OR	ON	2015/09/21 08:46
S248	297	S247 and (oil near2 level)	US-PGPUB; USPAT; EPO	OR	ON	2015/09/21 08:46
S249	4	S248 and ("700"/$.ccls. "702"/$.ccls.)	US-PGPUB; USPAT; EPO	OR	ON	2015/09/21 08:46
S250	1898	S235 and S236	US-PGPUB; USPAT; EPO	OR	ON	2015/09/21 08:46
S251	2471267	(internet network (web adj2 server))	US-PGPUB; USPAT; EPO	OR	ON	2015/09/21 08:46
S252	21038	(local autonomous independent) near2 (controller control device) near2 (operate operat$4 adjust drive move close)	US-PGPUB; USPAT; EPO	OR	ON	2015/09/21 08:46
S253	891	S237 and S250	US-PGPUB; USPAT; EPO	OR	ON	2015/09/21 08:46
S254	452	S253 and S251	US-PGPUB; USPAT; EPO	OR	ON	2015/09/21 08:46
S255	430	S236 and S252	US-PGPUB; USPAT; EPO	OR	ON	2015/09/21 08:46
S256	10	S254 and S255	US-PGPUB; USPAT; EPO	OR	ON	2015/09/21 08:46
S257	17	S236 and S252 and S235	US-PGPUB; USPAT; EPO	OR	ON	2015/09/21 08:46
S258	692562	(remote internet network) near2 (control monitor control$4 monitor$4 command)	US-PGPUB; USPAT; EPO	OR	ON	2015/09/21 08:46
S259	12566	S258 and S236	US-PGPUB; USPAT; EPO	OR	ON	2015/09/21 08:46
S260	153	S259 and S252	US-PGPUB; USPAT; EPO	OR	ON	2015/09/21 08:46
S261	210	S238 S239 S240 S241 S243 S244 S249 S256 S257 S260	US-PGPUB; USPAT; EPO	OR	ON	2015/09/21 08:46

S262	210	S261	US-PGPUB; USPAT; EPO	OR	ON	2015/09/21 08:46
S263	210	S262	US-PGPUB; USPAT; EPO	OR	ON	2015/09/21 08:46
S264	2965	G05D7/0676;G05B9/02;E21B47/00;G05B2219/23472.cpc.	US-PGPUB; USPAT; EPO	OR	ON	2015/09/21 08:46
S265	752	S264 and S236	US-PGPUB; USPAT; EPO	OR	ON	2015/09/21 08:46
S266	523	S265 and (oil near2 well)	US-PGPUB; USPAT; EPO	OR	ON	2015/09/21 08:46
S267	16	S266 and (oil near2 level)	US-PGPUB; USPAT; EPO	OR	ON	2015/09/21 08:46
S268	18	S264 and S252 and S251	US-PGPUB; USPAT; EPO	OR	ON	2015/09/21 08:46
S269	239	S267 S268 S263	US-PGPUB; USPAT; EPO	OR	ON	2015/09/21 08:46
S270	239	S269	US-PGPUB; USPAT; EPO	OR	ON	2015/09/21 08:46
S271	239	S270	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2015/09/21 08:46
S276	6137	700/1,282,275,281,42.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2016/12/07 16:13
S277	7043	702/6,13,183,188.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2016/12/07 16:13
S278	26619	709/224.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2016/12/07 16:13
S279	1160	166/336,363,250.1.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2016/12/07 16:13
S280	554	340/853.3,853.2,856.3.ccls.	US-PGPUB; USPAT;	OR	ON	2016/12/07 16:13

			EPO			
S281	41214	S276 S277 S278 S279 S280	US-PGPUB; USPAT; EPO	OR	ON	2016/12/07 16:13
S282	223345	(oil hydrocarbon (hydro adj2 carbon) gas) near2 (well site disposal station)	US-PGPUB; USPAT; EPO	OR	ON	2016/12/07 16:13
S283	2986529	(controller control device) near2 (operate operat$4 adjust drive move close)	US-PGPUB; USPAT; EPO	OR	ON	2016/12/07 16:13
S284	60	((AARON) near2 (PHILLIPS)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2016/12/07 16:13
S285	5	((AARON) near2 (PHILLIPS)).INV.	EPO; JPO; DERWENT	OR	ON	2016/12/07 16:13
S286	7	(AMPLISINE adj2 LABS).as.	EPO; JPO; DERWENT	OR	ON	2016/12/07 16:13
S287	7	real-time and onsite and internet and communication	EPO; JPO; DERWENT	OR	ON	2016/12/07 16:13
S288	20	(US-20040262008-$ or US-20120316658-$ or US-20080208475-$ or US-20060271299-$ or US-20060240818-$ or US-20050092523-$ or US-20040231851-$ or US-20040088115-$ or US-20030182463-$ or US-20020169645-$ or US-20020112860-$).did. or (US-7148812-$ or US-7958938-$ or US-7967066-$ or US-7845404-$ or US-6913083-$ or US-5732776-$ or US-4052703-$ or US-8179279-$).did. or (WO-2008124765-$).did.	US-PGPUB; USPAT; EPO	OR	ON	2016/12/07 16:13
S289	0	S288 and (oil near2 water near2 separation)	US-PGPUB; USPAT; EPO	OR	ON	2016/12/07 16:13
S290	7	S288 and (oil near2 water)	US-PGPUB; USPAT; EPO	OR	ON	2016/12/07 16:13
S291	6407	(oil near2 water near2 separation)	US-PGPUB; USPAT; EPO	OR	ON	2016/12/07 16:13
S292	3258	S291 and pump	US-PGPUB; USPAT; EPO	OR	ON	2016/12/07 16:13
S293	1220	S292 and (oil near2 well)	US-PGPUB; USPAT; EPO	OR	ON	2016/12/07 16:13
S294	338	S293 and (oil near2 level)	US-PGPUB; USPAT; EPO	OR	ON	2016/12/07 16:13
S295	6	S294 and ("700"/$.ccls. "702"/$.ccls.)	US-PGPUB; USPAT; EPO	OR	ON	2016/12/07 16:13

S296	2046	S281 and S282	US-PGPUB; USPAT; EPO	OR	ON	2016/12/07 16:13
S297	2802086	(internet network (web adj2 server))	US-PGPUB; USPAT; EPO	OR	ON	2016/12/07 16:13
S298	24197	(local autonomous independent) near2 (controller control device) near2 (operate operat$4 adjust drive move close)	US-PGPUB; USPAT; EPO	OR	ON	2016/12/07 16:13
S299	976	S283 and S296	US-PGPUB; USPAT; EPO	OR	ON	2016/12/07 16:13
S300	511	S299 and S297	US-PGPUB; USPAT; EPO	OR	ON	2016/12/07 16:13
S301	499	S282 and S298	US-PGPUB; USPAT; EPO	OR	ON	2016/12/07 16:13
S302	15	S300 and S301	US-PGPUB; USPAT; EPO	OR	ON	2016/12/07 16:13
S303	22	S282 and S298 and S281	US-PGPUB; USPAT; EPO	OR	ON	2016/12/07 16:13
S304	788452	(remote internet network) near2 (control monitor control$4 monitor$4 command)	US-PGPUB; USPAT; EPO	OR	ON	2016/12/07 16:13
S305	14396	S304 and S282	US-PGPUB; USPAT; EPO	OR	ON	2016/12/07 16:13
S306	185	S305 and S298	US-PGPUB; USPAT; EPO	OR	ON	2016/12/07 16:13
S307	262	S284 S285 S286 S287 S289 S290 S295 S302 S303 S306	US-PGPUB; USPAT; EPO	OR	ON	2016/12/07 16:13
S308	262	S307	US-PGPUB; USPAT; EPO	OR	ON	2016/12/07 16:13
S309	262	S308	US-PGPUB; USPAT; EPO	OR	ON	2016/12/07 16:13
S310	3692	G05D7/0676;G05B9/02;E21B47/00;G05B2219/23472.cpc.	US-PGPUB; USPAT; EPO	OR	ON	2016/12/07 16:13

S311	1005	S310 and S282	US-PGPUB; USPAT; EPO	OR	ON	2016/12/07 16:13
S312	680	S311 and (oil near2 well)	US-PGPUB; USPAT; EPO	OR	ON	2016/12/07 16:13
S313	20	S312 and (oil near2 level)	US-PGPUB; USPAT; EPO	OR	ON	2016/12/07 16:13
S314	22	S310 and S298 and S297	US-PGPUB; USPAT; EPO	OR	ON	2016/12/07 16:13
S315	293	S313 S314 S309	US-PGPUB; USPAT; EPO	OR	ON	2016/12/07 16:13
S316	293	S315	US-PGPUB; USPAT; EPO	OR	ON	2016/12/07 16:13
S317	293	S316	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2016/12/07 16:13
S318	293	S317	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2016/12/07 16:13
S319	81003	(G05D7/0676 or H04L67/02 or G05B19/0428 or G06F3/0484 or E21B47/00 or G05B9/02 or G05B2219/24015 or G05B2219/25204 or G05B2219/31369 or G05B2219/23472).cpc.	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2016/12/07 16:13
S320	46	(US-20040262008-$ or US-20020161685-$ or US-20090055029-$ or US-20120316658-$ or US-20080208475-$ or US-20060271299-$ or US-20060240818-$ or US-20050092523-$ or US-20040231851-$ or US-20040088115-$ or US-20030182463-$ or US-20020169645-$ or US-20020112860-$ or US-20090149969-$ or US-20100147510-$ or US-20050096846-$ or US-20110231024-$ or US-20120310582-$ or US-20010032518-$ or US-20140163749-$).did. or (US-7289994-$ or US-6801135-$ or US-7148812-$ or US-7958938-$ or US-7967066-$ or US-7845404-$ or US-6913083-$ or US-5732776-$ or US-4052703-$ or US-8179279-$ or US-5149443-$ or US-8386059-$ or US-8131510-$ or US-8373418-$ or US-8312320-$ or US-8290737-$ or US-7931090-$ or US-7921916-$ or US-6061603-$ or US-6192980-$ or US-6435022-$ or US-4823749-$ or US-8208478-$ or US-7347271-$ or US-5959547-$).did. or (WO-2008124765-$).did.	US-PGPUB; USPAT; EPO	OR	ON	2016/12/07 16:13
S321	4	S320 and (network adj2 (address addresses))	US-PGPUB; USPAT; FPRS;	OR	ON	2016/12/07 16:19

			EPO			
S322	2	("20020018399").PN.	US-PGPUB; USPAT; FPRS; EPO	OR	OFF	2016/12/07 16:26
S323	13	("5941305" | "5959547" | "5978749" | "6061603" | "6670880").PN. OR ("6801135").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2016/12/07 16:27
S324	47	(US-20120316658-$ or US-20080208475-$ or US-20060271299-$ or US-20060240818-$ or US-20050092523-$ or US-20040231851-$ or US-20040088115-$ or US-20030182463-$ or US-20020169645-$ or US-20040262008-$ or US-20020112860-$ or US-20090149969-$ or US-20100147510-$ or US-20050096846-$ or US-20110231024-$ or US-20020161685-$ or US-20120310582-$ or US-20010032518-$ or US-20140163749-$ or US-20090055029-$ or US-20020018399-$).did. or (US-7148812-$ or US-7958938-$ or US-7967066-$ or US-7845404-$ or US-6913083-$ or US-5732776-$ or US-4052703-$ or US-8179279-$ or US-5149443-$ or US-8386059-$ or US-8131510-$ or US-7289994-$ or US-8373418-$ or US-8312320-$ or US-8290737-$ or US-7931090-$ or US-7921916-$ or US-6061603-$ or US-6192980-$ or US-6435022-$ or US-4823749-$ or US-8208478-$ or US-7347271-$ or US-5959547-$ or US-5941305-$).did. or (WO-2008124765-$).did.	US-PGPUB; USPAT; EPO	OR	ON	2016/12/07 16:28
S325	29	S324 and (cell cellular wireless)	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2016/12/07 16:28
S326	12	S325 and (web html)	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2016/12/07 16:29
S327	2	("7096092").PN.	US-PGPUB; USPAT; FPRS; EPO	OR	OFF	2016/12/07 16:29
S328	1	("6967589").PN.	US-PGPUB; USPAT; FPRS; EPO	OR	OFF	2016/12/07 16:31
S329	91	("5438329" | "5717718" | "5963650" | "6062095" | "6169488" | "6305471" | "6356205" | "6369715" | "6574652" | "6693553" | "6795319").PN. OR ("6967589").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2016/12/07 16:32
S330	47	S329 and (cell cellular wireless)	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2016/12/07 16:33
S331	23	S330 and (web html)	US-PGPUB; USPAT;	OR	ON	2016/12/07 16:33

			FPRS; EPO			
S332	2	("20090055029").PN.	US-PGPUB; USPAT; FPRS; EPO	OR	OFF	2016/12/07 16:34
S333	2	("20100033318").PN.	US-PGPUB; USPAT; FPRS; EPO	OR	OFF	2016/12/07 16:35
S334	51	(US-20120316658-$ or US-20080208475-$ or US-20060271299-$ or US-20060240818-$ or US-20050092523-$ or US-20040231851-$ or US-20040088115-$ or US-20030182463-$ or US-20020169645-$ or US-20040262008-$ or US-20020112860-$ or US-20090149969-$ or US-20100147510-$ or US-20050096846-$ or US-20110231024-$ or US-20020161685-$ or US-20120310582-$ or US-20010032518-$ or US-20140163749-$ or US-20090055029-$ or US-20020018399-$ or US-20100033318-$).did. or (US-7148812-$ or US-7958938-$ or US-7967066-$ or US-7845404-$ or US-6913083-$ or US-5732776-$ or US-4052703-$ or US-8179279-$ or US-5149443-$ or US-8386059-$ or US-8131510-$ or US-7289994-$ or US-8373418-$ or US-8312320-$ or US-8290737-$ or US-7931090-$ or US-7921916-$ or US-6061603-$ or US-6192980-$ or US-6435022-$ or US-4823749-$ or US-8208478-$ or US-7347271-$ or US-5959547-$ or US-5941305-$ or US-7096092-$).did. or (US-6967589-$ or US-6356205-$).did. or (WO-2008124765-$).did.	US-PGPUB; USPAT; EPO	OR	ON	2016/12/08 12:05
S335	20	S334 and (cell cellular)	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2016/12/08 12:05
S336	13	S335 and (address addresses)	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2016/12/08 12:22
S337	48	(US-20120029661-$ or US-20080077512-$ or US-20100179669-$ or US-20040125141-$ or US-20040075689-$ or US-20040064205-$ or US-20120041570-$ or US-20050027377-$ or US-20050027376-$ or US-20110173556-$ or US-20080208380-$ or US-20070179641-$ or US-20050120288-$ or US-20040186927-$ or US-20030233438-$ or US-20030225650-$ or US-20030107591-$ or US-20090327942-$ or US-20080189638-$ or US-20080125877-$ or US-20080065706-$ or US-20080065705-$ or US-20080034047-$ or US-20070239291-$).did. or (US-6931288-$ or US-7515977-$ or US-8677262-$ or US-8533619-$ or US-8356257-$ or US-7680546-$ or US-7526794-$ or US-6889096-$ or US-8516383-$ or US-7971151-$ or US-7783370-$ or US-7729792-$ or US-7526347-$ or US-7152072-$ or US-7117052-$ or US-7043311-$ or US-6834370-$ or US-6735596-$ or US-6442512-$ or US-6434500-$ or US-5631825-$ or US-6445963-$ or US-6522934-$ or US-6247020-$).did.	US-PGPUB; USPAT	OR	ON	2016/12/08 12:28

S338	24	S337 and (address addresses)	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2016/12/08 13:31
S339	17	S337 and (cell cellular)	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2016/12/08 13:31
S340	13	S338 and S339	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2016/12/08 13:32
S341	2230	(web html) near4 (control controlling) near4 (actuator controller valve)	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2016/12/08 13:48
S342	6137	700/1,282,275,281,42.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2016/12/08 13:48
S343	7043	702/6,13,183,188.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2016/12/08 13:48
S344	26619	709/224.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2016/12/08 13:48
S345	1160	166/336,363,250.1.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2016/12/08 13:48
S346	554	340/853.3,853.2,856.3.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2016/12/08 13:48
S347	41214	S342 S343 S344 S345 S346	US-PGPUB; USPAT; EPO	OR	ON	2016/12/08 13:48
S348	81068	(G05D7/0676 or H04L67/02 or G05B19/0428 or G06F3/0484 or E21B47/00 or G05B9/02 or G05B2219/24015 or G05B2219/25204 or G05B2219/31369 or G05B2219/23472).cpc.	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2016/12/08 13:48
S349	120388	S348 S347	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2016/12/08 13:48
S350	155	S341 and 700/$.ccls.	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2016/12/08 13:49
S351	145	S349 and S341	US-PGPUB;	OR	ON	2016/12/08 13:53

			USPAT; FPRS; EPO			
S352	387	((web html) near4 (control controlling) near4 (actuator controller valve)).ab.	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2016/12/08 13:53
S353	20	S349 and S352	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2016/12/08 13:54
S354	19	S352 and 700/$.ccls.	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2016/12/08 13:54
S355	34	S353 S354	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2016/12/08 13:54
S356	2	("20020018399").PN.	US-PGPUB; USPAT; FPRS; EPO	OR	OFF	2016/12/08 14:01
S357	1	("5805926").PN.	US-PGPUB; USPAT; FPRS; EPO	OR	OFF	2016/12/09 08:48
S358	2	("20030052180").PN.	US-PGPUB; USPAT; FPRS; EPO	OR	OFF	2016/12/09 08:55
S359	1	("6967589").PN.	US-PGPUB; USPAT; FPRS; EPO	OR	OFF	2016/12/09 10:24
S360	54	(US-20120316658-$ or US-20080208475-$ or US-20060271299-$ or US-20060240818-$ or US-20050092523-$ or US-20040231851-$ or US-20040088115-$ or US-20030182463-$ or US-20020169645-$ or US-20040262008-$ or US-20020112860-$ or US-20090149969-$ or US-20100147510-$ or US-20050096846-$ or US-20110231024-$ or US-20020161685-$ or US-20120310582-$ or US-20010032518-$ or US-20140163749-$ or US-20090055029-$ or US-20020018399-$ or US-20100033318-$ or US-20080077512-$ or US-20030052180-$).did. or (US-7148812-$ or US-7958938-$ or US-7967066-$ or US-7845404-$ or US-6913083-$ or US-5732776-$ or US-4052703-$ or US-8179279-$ or US-5149443-$ or US-8386059-$ or US-8131510-$ or US-7289994-$ or US-8373418-$ or US-8312320-$ or US-8290737-$ or US-7931090-$ or US-7921916-$ or US-6061603-$ or US-6192980-$ or US-6435022-$ or US-4823749-$ or US-	US-PGPUB; USPAT; EPO	OR	ON	2016/12/09 11:51

		8208478-$ or US-7347271-$ or US-5959547-$ or US-5941305-$ or US-7096092-$).did. or (US-6967589-$ or US-6356205-$ or US-5805926-$).did. or (WO-2008124765-$).did.				
S361	2	S360 and thread	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2016/12/09 11:51
S362	2	S360 and (leak adj4 sensor)	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2016/12/09 11:51
S363	8	S360 and (private)	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2016/12/09 11:52
S364	6	S360 and (carrier)	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2016/12/09 11:52
S365	2	S360 and (validity)	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2016/12/09 11:52
S366	1	("20020156837").PN.	US-PGPUB; USPAT; FPRS; EPO	OR	OFF	2016/12/09 12:11
S367	1	("6799195").PN.	US-PGPUB; USPAT; FPRS; EPO	OR	OFF	2016/12/09 12:15
S368	2	("20110051645").PN.	US-PGPUB; USPAT; FPRS; EPO	OR	OFF	2016/12/09 12:34
S369	3	("5546301").PN.	US-PGPUB; USPAT; FPRS; EPO	OR	OFF	2016/12/09 12:55
S370	127	("5247447" | "5272642" | "5353229").PN. OR ("5546301").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2016/12/09 12:55
S371	21	S370 and thread	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2016/12/09 12:55
S372	38793	(thread near4 (actuator sensor gui synchronize data))	US-PGPUB; USPAT;	OR	ON	2016/12/09 13:00

			FPRS; EPO			
S373	6873	(thread near4 (actuator sensor gui synchronize data)).ab.	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2016/12/09 13:00
S374	6416	(thread near4 (actuator sensor gui synchronize data)).clm.	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2016/12/09 13:00
S375	38793	S372 S373 S374	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2016/12/09 13:00
S376	11652	S373 S374	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2016/12/09 13:01
S377	625	S375 and 700/$.ccls.	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2016/12/09 13:01
S378	157	S376 and 700/$.ccls.	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2016/12/09 13:01
S379	0	(thread near4 (actuator and sensor and synchronize and data))	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2016/12/09 13:02
S380	144	(thread near4 (actuator and sensor))	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2016/12/09 13:02
S381	10	S380 and 700/$.ccls.	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2016/12/09 13:02
S382	10	("6249241" | "5819271" | "6810386" | "5805082" | "5875305" | "6208938").PN.	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2017/03/23 12:39
S383	1	("6665568").PN.	US-PGPUB; USPAT; FPRS; EPO	OR	OFF	2017/03/23 14:01
S384	10	("5973696" | "5982362" | "6138150" | "6170007" | "6201996" | "6311101").PN. OR ("6665568").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2017/03/23 14:15

S385	6148	700/1,282,275,281,42.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2017/03/23 14:18
S386	7044	702/6,13,183,188.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2017/03/23 14:18
S387	26644	709/224.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2017/03/23 14:18
S388	1160	166/336,363,250.1.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2017/03/23 14:18
S389	554	340/853.3,853.2,856.3.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2017/03/23 14:18
S390	41251	S385 S386 S387 S388 S389	US-PGPUB; USPAT; EPO	OR	ON	2017/03/23 14:18
S391	227637	(oil hydrocarbon (hydro adj2 carbon) gas) near2 (well site disposal station)	US-PGPUB; USPAT; EPO	OR	ON	2017/03/23 14:18
S392	3060500	(controller control device) near2 (operate operat$4 adjust drive move close)	US-PGPUB; USPAT; EPO	OR	ON	2017/03/23 14:18
S393	62	((AARON) near2 (PHILLIPS)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2017/03/23 14:18
S394	5	((AARON) near2 (PHILLIPS)).INV.	EPO; JPO; DERWENT	OR	ON	2017/03/23 14:18
S395	9	(AMPLISINE adj2 LABS).as.	EPO; JPO; DERWENT	OR	ON	2017/03/23 14:18
S396	8	real-time and onsite and internet and communication	EPO; JPO; DERWENT	OR	ON	2017/03/23 14:18
S397	20	(US-20040262008-$ or US-20120316658-$ or US-20080208475-$ or US-20060271299-$ or US-20060240818-$ or US-20050092523-$ or US-20040231851-$ or US-20040088115-$ or US-20030182463-$ or US-20020169645-$ or US-20020112860-$).did. or (US-7148812-$ or US-7958938-$ or US-7967066-$ or US-7845404-$ or US-6913083-$ or US-5732776-$ or US-4052703-$ or US-8179279-$).did. or (WO-2008124765-$).did.	US-PGPUB; USPAT; EPO	OR	ON	2017/03/23 14:18
S398	0	S397 and (oil near2 water near2 separation)	US-PGPUB; USPAT; EPO	OR	ON	2017/03/23 14:18
S399	7	S397 and (oil near2 water)	US-PGPUB; USPAT; EPO	OR	ON	2017/03/23 14:18
S400	6555	(oil near2 water near2 separation)	US-	OR	ON	2017/03/23

			PGPUB; USPAT; EPO			14:18
S401	3329	S400 and pump	US-PGPUB; USPAT; EPO	OR	ON	2017/03/23 14:18
S402	1245	S401 and (oil near2 well)	US-PGPUB; USPAT; EPO	OR	ON	2017/03/23 14:18
S403	342	S402 and (oil near2 level)	US-PGPUB; USPAT; EPO	OR	ON	2017/03/23 14:18
S404	6	S403 and ("700"/$.ccls. "702"/$.ccls.)	US-PGPUB; USPAT; EPO	OR	ON	2017/03/23 14:18
S405	2046	S390 and S391	US-PGPUB; USPAT; EPO	OR	ON	2017/03/23 14:18
S406	2883167	(internet network (web adj2 server))	US-PGPUB; USPAT; EPO	OR	ON	2017/03/23 14:18
S407	24993	(local autonomous independent) near2 (controller control device) near2 (operate operat$4 adjust drive move close)	US-PGPUB; USPAT; EPO	OR	ON	2017/03/23 14:18
S408	976	S392 and S405	US-PGPUB; USPAT; EPO	OR	ON	2017/03/23 14:18
S409	511	S408 and S406	US-PGPUB; USPAT; EPO	OR	ON	2017/03/23 14:18
S410	514	S391 and S407	US-PGPUB; USPAT; EPO	OR	ON	2017/03/23 14:18
S411	15	S409 and S410	US-PGPUB; USPAT; EPO	OR	ON	2017/03/23 14:18
S412	22	S391 and S407 and S390	US-PGPUB; USPAT; EPO	OR	ON	2017/03/23 14:18
S413	812457	(remote internet network) near2 (control monitor control$4 monitor$4 command)	US-PGPUB; USPAT; EPO	OR	ON	2017/03/23 14:18
S414	14890	S413 and S391	US-PGPUB; USPAT; EPO	OR	ON	2017/03/23 14:18
S415	190	S414 and S407	US-	OR	ON	2017/03/23

			PGPUB; USPAT; EPO			14:18
S416	269	S393 S394 S395 S396 S398 S399 S404 S411 S412 S415	US-PGPUB; USPAT; EPO	OR	ON	2017/03/23 14:18
S417	3859	G05D7/0676;G05B9/02;E21B47/00;G05B2219/23472.cpc.	US-PGPUB; USPAT; EPO	OR	ON	2017/03/23 14:18
S418	22	S417 and S407 and S406	US-PGPUB; USPAT; EPO	OR	ON	2017/03/23 14:18
S419	46	(US-20040262008-$ or US-20020161685-$ or US-20090055029-$ or US-20120316658-$ or US-20080208475-$ or US-20060271299-$ or US-20060240818-$ or US-20050092523-$ or US-20040231851-$ or US-20040088115-$ or US-20030182463-$ or US-20020169645-$ or US-20020112860-$ or US-20090149969-$ or US-20100147510-$ or US-20050096846-$ or US-20110231024-$ or US-20120310582-$ or US-20010032518-$ or US-20140163749-$).did. or (US-7289994-$ or US-6801135-$ or US-7148812-$ or US-7958938-$ or US-7967066-$ or US-7845404-$ or US-6913083-$ or US-5732776-$ or US-4052703-$ or US-8179279-$ or US-5149443-$ or US-8386059-$ or US-8131510-$ or US-8373418-$ or US-8312320-$ or US-8290737-$ or US-7931090-$ or US-7921916-$ or US-6061603-$ or US-6192980-$ or US-6435022-$ or US-4823749-$ or US-8208478-$ or US-7347271-$ or US-5959547-$).did. or (WO-2008124765-$).did.	US-PGPUB; USPAT; EPO	OR	ON	2017/03/23 14:18
S420	4	S419 and (network adj2 (address addresses))	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2017/03/23 14:18
S421	47	(US-20120316658-$ or US-20080208475-$ or US-20060271299-$ or US-20060240818-$ or US-20050092523-$ or US-20040231851-$ or US-20040088115-$ or US-20030182463-$ or US-20020169645-$ or US-20040262008-$ or US-20020112860-$ or US-20090149969-$ or US-20100147510-$ or US-20050096846-$ or US-20110231024-$ or US-20020161685-$ or US-20120310582-$ or US-20010032518-$ or US-20140163749-$ or US-20090055029-$ or US-20020018399-$).did. or (US-7148812-$ or US-7958938-$ or US-7967066-$ or US-7845404-$ or US-6913083-$ or US-5732776-$ or US-4052703-$ or US-8179279-$ or US-5149443-$ or US-8386059-$ or US-8131510-$ or US-7289994-$ or US-8373418-$ or US-8312320-$ or US-8290737-$ or US-7931090-$ or US-7921916-$ or US-6061603-$ or US-6192980-$ or US-6435022-$ or US-4823749-$ or US-8208478-$ or US-7347271-$ or US-5959547-$ or US-5941305-$).did. or (WO-2008124765-$).did.	US-PGPUB; USPAT; EPO	OR	ON	2017/03/23 14:18
S422	29	S421 and (cell cellular wireless)	US-PGPUB; USPAT; FPRS;	OR	ON	2017/03/23 14:18

			EPO			
S423	12	S422 and (web html)	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2017/03/23 14:18
S424	51	(US-20120316658-$ or US-20080208475-$ or US-20060271299-$ or US-20060240818-$ or US-20050092523-$ or US-20040231851-$ or US-20040088115-$ or US-20030182463-$ or US-20020169645-$ or US-20040262008-$ or US-20020112860-$ or US-20090149969-$ or US-20100147510-$ or US-20050096846-$ or US-20110231024-$ or US-20020161685-$ or US-20120310582-$ or US-20010032518-$ or US-20140163749-$ or US-20090055029-$ or US-20020018399-$ or US-20100033318-$).did. or (US-7148812-$ or US-7958938-$ or US-7967066-$ or US-7845404-$ or US-6913083-$ or US-5732776-$ or US-4052703-$ or US-8179279-$ or US-5149443-$ or US-8386059-$ or US-8131510-$ or US-7289994-$ or US-8373418-$ or US-8312320-$ or US-8290737-$ or US-7931090-$ or US-7921916-$ or US-6061603-$ or US-6192980-$ or US-6435022-$ or US-4823749-$ or US-8208478-$ or US-7347271-$ or US-5959547-$ or US-5941305-$ or US-7096092-$).did. or (US-6967589-$ or US-6356205-$).did. or (WO-2008124765-$).did.	US-PGPUB; USPAT; EPO	OR	ON	2017/03/23 14:18
S425	20	S424 and (cell cellular)	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2017/03/23 14:18
S426	48	(US-20120029661-$ or US-20080077512-$ or US-20100179669-$ or US-20040125141-$ or US-20040075689-$ or US-20040064205-$ or US-20120041570-$ or US-20050027377-$ or US-20050027376-$ or US-20110173556-$ or US-20080208380-$ or US-20070179641-$ or US-20050120288-$ or US-20040186927-$ or US-20030233438-$ or US-20030225650-$ or US-20030107591-$ or US-20090327942-$ or US-20080189638-$ or US-20080125877-$ or US-20080065706-$ or US-20080065705-$ or US-20080034047-$ or US-20070239291-$).did. or (US-6931288-$ or US-7515977-$ or US-8677262-$ or US-8533619-$ or US-8356257-$ or US-7680546-$ or US-7526794-$ or US-6889096-$ or US-8516383-$ or US-7971151-$ or US-7783370-$ or US-7729792-$ or US-7526347-$ or US-7152072-$ or US-7117052-$ or US-7043311-$ or US-6834370-$ or US-6735596-$ or US-6442512-$ or US-6434500-$ or US-5631825-$ or US-6445963-$ or US-6522934-$ or US-6247020-$).did.	US-PGPUB; USPAT	OR	ON	2017/03/23 14:18
S427	24	S426 and (address addresses)	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2017/03/23 14:18
S428	17	S426 and (cell cellular)	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2017/03/23 14:18
S429	13	S427 and S428	US-	OR	ON	2017/03/23

			PGPUB; USPAT; FPRS; EPO			14:18
S430	6148	700/1,282,275,281,42.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2017/03/23 14:18
S431	7044	702/6,13,183,188.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2017/03/23 14:18
S432	26644	709/224.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2017/03/23 14:18
S433	1160	166/336,363,250.1.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2017/03/23 14:18
S434	554	340/853.3,853.2,856.3.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2017/03/23 14:18
S435	41251	S430 S431 S432 S433 S434	US-PGPUB; USPAT; EPO	OR	ON	2017/03/23 14:18
S436	86021	(G05D7/0676 or H04L67/02 or G05B19/0428 or G06F3/0484 or E21B47/00 or G05B9/02 or G05B2219/24015 or G05B2219/25204 or G05B2219/31369 or G05B2219/23472).cpc.	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2017/03/23 14:18
S437	125354	S436 S435	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2017/03/23 14:18
S438	394	((web html) near4 (control controlling) near4 (actuator controller valve)).ab.	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2017/03/23 14:18
S439	20	S437 and S438	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2017/03/23 14:18
S440	19	S438 and 700/$.ccls.	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2017/03/23 14:18
S441	34	S439 S440	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2017/03/23 14:18
S442	54	(US-20120316658-$ or US-20080208475-$ or US-20060271299-$ or US-20060240818-$ or US-20050092523-$ or US-20040231851-$ or US-	US-PGPUB; USPAT;	OR	ON	2017/03/23 14:18

		20040088115-$ or US-20030182463-$ or US-20020169645-$ or US-20040262008-$ or US-20020112860-$ or US-20090149969-$ or US-20100147510-$ or US-20050096846-$ or US-20110231024-$ or US-20020161685-$ or US-20120310582-$ or US-20010032518-$ or US-20140163749-$ or US-20090055029-$ or US-20020018399-$ or US-20100033318-$ or US-20080077512-$ or US-20030052180-$).did. or (US-7148812-$ or US-7958938-$ or US-7967066-$ or US-7845404-$ or US-6913083-$ or US-5732776-$ or US-4052703-$ or US-8179279-$ or US-5149443-$ or US-8386059-$ or US-8131510-$ or US-7289994-$ or US-8373418-$ or US-8312320-$ or US-8290737-$ or US-7931090-$ or US-7921916-$ or US-6061603-$ or US-6192980-$ or US-6435022-$ or US-4823749-$ or US-8208478-$ or US-7347271-$ or US-5959547-$ or US-5941305-$ or US-7096092-$).did. or (US-6967589-$ or US-6356205-$ or US-5805926-$).did. or (WO-2008124765-$).did.	EPO			
S443	2	S442 and (leak adj4 sensor)	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2017/03/23 14:18
S444	8	S442 and (private)	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2017/03/23 14:18
S445	6	S442 and (carrier)	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2017/03/23 14:18
S446	2	S442 and (validity)	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2017/03/23 14:18
S447	129	("5247447" | "5272642" | "5353229").PN. OR ("5546301").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2017/03/23 14:18
S448	21	S447 and thread	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2017/03/23 14:18
S449	0	(thread near4 (actuator and sensor and synchronize and data))	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2017/03/23 14:18
S450	146	(thread near4 (actuator and sensor))	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2017/03/23 14:18
S451	10	S450 and 700/$.ccls.	US-PGPUB; USPAT;	OR	ON	2017/03/23 14:18

			FPRS; EPO			
S452	405	S416 S449 S451 S448 S443 S444 S445 S446 S441 S440 S439 S429 S428 S427 S425 S420 S422 S423 S418	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2017/03/23 14:18
S453	6153	700/1,282,275,281,42.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2017/09/26 08:06
S454	7048	702/6,13,183,188.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2017/09/26 08:06
S455	26662	709/224.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2017/09/26 08:06
S456	1163	166/336,363,250.1.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2017/09/26 08:06
S457	554	340/853.3,853.2,856.3.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2017/09/26 08:06
S458	41281	S453 S454 S455 S456 S457	US-PGPUB; USPAT; EPO	OR	ON	2017/09/26 08:06
S459	235216	(oil hydrocarbon (hydro adj2 carbon) gas) near2 (well site disposal station)	US-PGPUB; USPAT; EPO	OR	ON	2017/09/26 08:06
S460	3192542	(controller control device) near2 (operate operat$4 adjust drive move close)	US-PGPUB; USPAT; EPO	OR	ON	2017/09/26 08:06
S461	65	((AARON) near2 (PHILLIPS)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2017/09/26 08:06
S462	5	((AARON) near2 (PHILLIPS)).INV.	EPO; JPO; DERWENT	OR	ON	2017/09/26 08:06
S463	11	(AMPLISINE adj2 LABS).as.	EPO; JPO; DERWENT	OR	ON	2017/09/26 08:06
S464	8	real-time and onsite and internet and communication	EPO; JPO; DERWENT	OR	ON	2017/09/26 08:06
S465	20	(US-20040262008-$ or US-20120316658-$ or US-20080208475-$ or US-20060271299-$ or US-20060240818-$ or US-20050092523-$ or US-20040231851-$ or US-20040088115-$ or US-20030182463-$ or US-20020169645-$ or US-20020112860-$).did. or (US-7148812-$ or US-7958938-$ or US-7967066-$ or US-7845404-$ or US-6913083-$ or US-5732776-$ or US-4052703-$ or US-8179279-$).did. or (WO-2008124765-$).did.	US-PGPUB; USPAT; EPO	OR	ON	2017/09/26 08:06
S466	0	S465 and (oil near2 water near2 separation)	US-PGPUB;	OR	ON	2017/09/26 08:06

			USPAT; EPO			
S467	7	S465 and (oil near2 water)	US-PGPUB; USPAT; EPO	OR	ON	2017/09/26 08:06
S468	6830	(oil near2 water near2 separation)	US-PGPUB; USPAT; EPO	OR	ON	2017/09/26 08:06
S469	3457	S468 and pump	US-PGPUB; USPAT; EPO	OR	ON	2017/09/26 08:06
S470	1296	S469 and (oil near2 well)	US-PGPUB; USPAT; EPO	OR	ON	2017/09/26 08:06
S471	352	S470 and (oil near2 level)	US-PGPUB; USPAT; EPO	OR	ON	2017/09/26 08:06
S472	6	S471 and ("700"/$.ccls. "702"/$.ccls.)	US-PGPUB; USPAT; EPO	OR	ON	2017/09/26 08:06
S473	2051	S458 and S459	US-PGPUB; USPAT; EPO	OR	ON	2017/09/26 08:06
S474	3028538	(internet network (web adj2 server))	US-PGPUB; USPAT; EPO	OR	ON	2017/09/26 08:06
S475	26427	(local autonomous independent) near2 (controller control device) near2 (operate operat$4 adjust drive move close)	US-PGPUB; USPAT; EPO	OR	ON	2017/09/26 08:06
S476	977	S460 and S473	US-PGPUB; USPAT; EPO	OR	ON	2017/09/26 08:06
S477	513	S476 and S474	US-PGPUB; USPAT; EPO	OR	ON	2017/09/26 08:06
S478	540	S459 and S475	US-PGPUB; USPAT; EPO	OR	ON	2017/09/26 08:06
S479	15	S477 and S478	US-PGPUB; USPAT; EPO	OR	ON	2017/09/26 08:06
S480	22	S459 and S475 and S458	US-PGPUB; USPAT; EPO	OR	ON	2017/09/26 08:06
S481	855191	(remote internet network) near2 (control monitor control$4 monitor$4 command)	US-PGPUB;	OR	ON	2017/09/26 08:06

			USPAT; EPO			
S482	15715	S481 and S459	US-PGPUB; USPAT; EPO	OR	ON	2017/09/26 08:06
S483	201	S482 and S475	US-PGPUB; USPAT; EPO	OR	ON	2017/09/26 08:06
S484	283	S461 S462 S463 S464 S466 S467 S472 S479 S480 S483	US-PGPUB; USPAT; EPO	OR	ON	2017/09/26 08:06
S485	4113	G05D7/0676;G05B9/02;E21B47/00;G05B2219/23472.cpc.	US-PGPUB; USPAT; EPO	OR	ON	2017/09/26 08:06
S486	22	S485 and S475 and S474	US-PGPUB; USPAT; EPO	OR	ON	2017/09/26 08:06
S487	46	(US-20040262008-$ or US-20020161685-$ or US-20090055029-$ or US-20120316658-$ or US-20080208475-$ or US-20060271299-$ or US-20060240818-$ or US-20050092523-$ or US-20040231851-$ or US-20040088115-$ or US-20030182463-$ or US-20020169645-$ or US-20020112860-$ or US-20090149969-$ or US-20100147510-$ or US-20050096846-$ or US-20110231024-$ or US-20120310582-$ or US-20010032518-$ or US-20140163749-$).did. or (US-7289994-$ or US-6801135-$ or US-7148812-$ or US-7958938-$ or US-7967066-$ or US-7845404-$ or US-6913083-$ or US-5732776-$ or US-4052703-$ or US-8179279-$ or US-5149443-$ or US-8386059-$ or US-8131510-$ or US-8373418-$ or US-8312320-$ or US-8290737-$ or US-7931090-$ or US-7921916-$ or US-6061603-$ or US-6192980-$ or US-6435022-$ or US-4823749-$ or US-8208478-$ or US-7347271-$ or US-5959547-$).did. or (WO-2008124765-$).did.	US-PGPUB; USPAT; EPO	OR	ON	2017/09/26 08:06
S488	4	S487 and (network adj2 (address addresses))	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2017/09/26 08:06
S489	47	(US-20120316658-$ or US-20080208475-$ or US-20060271299-$ or US-20060240818-$ or US-20050092523-$ or US-20040231851-$ or US-20040088115-$ or US-20030182463-$ or US-20020169645-$ or US-20040262008-$ or US-20020112860-$ or US-20090149969-$ or US-20100147510-$ or US-20050096846-$ or US-20110231024-$ or US-20020161685-$ or US-20120310582-$ or US-20010032518-$ or US-20140163749-$ or US-20090055029-$ or US-20020018399-$).did. or (US-7148812-$ or US-7958938-$ or US-7967066-$ or US-7845404-$ or US-6913083-$ or US-5732776-$ or US-4052703-$ or US-8179279-$ or US-5149443-$ or US-8386059-$ or US-8131510-$ or US-7289994-$ or US-8373418-$ or US-8312320-$ or US-8290737-$ or US-7931090-$ or US-7921916-$ or US-6061603-$ or US-6192980-$ or US-6435022-$ or US-	US-PGPUB; USPAT; EPO	OR	ON	2017/09/26 08:06

		4823749-$ or US-8208478-$ or US-7347271-$ or US-5959547-$ or US-5941305-$).did. or (WO-2008124765-$).did.				
S490	29	S489 and (cell cellular wireless)	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2017/09/26 08:06
S491	12	S490 and (web html)	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2017/09/26 08:06
S492	51	(US-20120316658-$ or US-20080208475-$ or US-20060271299-$ or US-20060240818-$ or US-20050092523-$ or US-20040231851-$ or US-20040088115-$ or US-20030182463-$ or US-20020169645-$ or US-20040262008-$ or US-20020112860-$ or US-20090149969-$ or US-20100147510-$ or US-20050096846-$ or US-20110231024-$ or US-20020161685-$ or US-20120310582-$ or US-20010032518-$ or US-20140163749-$ or US-20090055029-$ or US-20020018399-$ or US-20100033318-$).did. or (US-7148812-$ or US-7958938-$ or US-7967066-$ or US-7845404-$ or US-6913083-$ or US-5732776-$ or US-4052703-$ or US-8179279-$ or US-5149443-$ or US-8386059-$ or US-8131510-$ or US-7289994-$ or US-8373418-$ or US-8312320-$ or US-8290737-$ or US-7931090-$ or US-7921916-$ or US-6061603-$ or US-6192980-$ or US-6435022-$ or US-4823749-$ or US-8208478-$ or US-7347271-$ or US-5959547-$ or US-5941305-$ or US-7096092-$).did. or (US-6967589-$ or US-6356205-$).did. or (WO-2008124765-$).did.	US-PGPUB; USPAT; EPO	OR	ON	2017/09/26 08:06
S493	20	S492 and (cell cellular)	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2017/09/26 08:06
S494	48	(US-20120029661-$ or US-20080077512-$ or US-20100179669-$ or US-20040125141-$ or US-20040075689-$ or US-20040064205-$ or US-20120041570-$ or US-20050027377-$ or US-20050027376-$ or US-20110173556-$ or US-20080208380-$ or US-20070179641-$ or US-20050120288-$ or US-20040186927-$ or US-20030233438-$ or US-20030225650-$ or US-20030107591-$ or US-20090327942-$ or US-20080189638-$ or US-20080125877-$ or US-20080065706-$ or US-20080065705-$ or US-20080034047-$ or US-20070239291-$).did. or (US-6931288-$ or US-7515977-$ or US-8677262-$ or US-8533619-$ or US-8356257-$ or US-7680546-$ or US-7526794-$ or US-6889096-$ or US-8516383-$ or US-7971151-$ or US-7783370-$ or US-7729792-$ or US-7526347-$ or US-7152072-$ or US-7117052-$ or US-7043311-$ or US-6834370-$ or US-6735596-$ or US-6442512-$ or US-6434500-$ or US-5631825-$ or US-6445963-$ or US-6522934-$ or US-6247020-$).did.	US-PGPUB; USPAT	OR	ON	2017/09/26 08:06
S495	24	S494 and (address addresses)	US-PGPUB; USPAT; FPRS;	OR	ON	2017/09/26 08:06

			EPO			
S496	17	S494 and (cell cellular)	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2017/09/26 08:06
S497	13	S495 and S496	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2017/09/26 08:06
S498	6153	700/1,282,275,281,42.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2017/09/26 08:06
S499	7048	702/6,13,183,188.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2017/09/26 08:06
S500	26662	709/224.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2017/09/26 08:06
S501	1163	166/336,363,250.1.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2017/09/26 08:06
S502	554	340/853.3,853.2,856.3.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2017/09/26 08:06
S503	41281	S498 S499 S500 S501 S502	US-PGPUB; USPAT; EPO	OR	ON	2017/09/26 08:06
S504	92435	(G05D7/0676 or H04L67/02 or G05B19/0428 or G06F3/0484 or E21B47/00 or G05B9/02 or G05B2219/24015 or G05B2219/25204 or G05B2219/31369 or G05B2219/23472).cpc.	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2017/09/26 08:06
S505	131779	S504 S503	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2017/09/26 08:06
S506	401	((web html) near4 (control controlling) near4 (actuator controller valve)).ab.	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2017/09/26 08:06
S507	21	S505 and S506	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2017/09/26 08:06
S508	19	S506 and 700/$.ccls.	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2017/09/26 08:06

S509	35	S507 S508	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2017/09/26 08:06
S510	54	(US-20120316658-$ or US-20080208475-$ or US-20060271299-$ or US-20060240818-$ or US-20050092523-$ or US-20040231851-$ or US-20040088115-$ or US-20030182463-$ or US-20020169645-$ or US-20040262008-$ or US-20020112860-$ or US-20090149969-$ or US-20100147510-$ or US-20050096846-$ or US-20110231024-$ or US-20020161685-$ or US-20120310582-$ or US-20010032518-$ or US-20140163749-$ or US-20090055029-$ or US-20020018399-$ or US-20100033318-$ or US-20080077512-$ or US-20030052180-$).did. or (US-7148812-$ or US-7958938-$ or US-7967066-$ or US-7845404-$ or US-6913083-$ or US-5732776-$ or US-4052703-$ or US-8179279-$ or US-5149443-$ or US-8386059-$ or US-8131510-$ or US-7289994-$ or US-8373418-$ or US-8312320-$ or US-8290737-$ or US-7931090-$ or US-7921916-$ or US-6061603-$ or US-6192980-$ or US-6435022-$ or US-4823749-$ or US-8208478-$ or US-7347271-$ or US-5959547-$ or US-5941305-$ or US-7096092-$).did. or (US-6967589-$ or US-6356205-$ or US-5805926-$).did. or (WO-2008124765-$).did.	US-PGPUB; USPAT; EPO	OR	ON	2017/09/26 08:06
S511	2	S510 and (leak adj4 sensor)	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2017/09/26 08:06
S512	8	S510 and (private)	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2017/09/26 08:06
S513	6	S510 and (carrier)	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2017/09/26 08:06
S514	2	S510 and (validity)	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2017/09/26 08:06
S515	130	("5247447" | "5272642" | "5353229").PN. OR ("5546301").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2017/09/26 08:06
S516	22	S515 and thread	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2017/09/26 08:06
S517	0	(thread near4 (actuator and sensor and synchronize and data))	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2017/09/26 08:06

S518	152	(thread near4 (actuator and sensor))	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2017/09/26 08:06
S519	10	S518 and 700/$.ccls.	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2017/09/26 08:06
S520	421	S484 S517 S519 S516 S511 S512 S513 S514 S509 S508 S507 S497 S496 S495 S493 S488 S490 S491 S486	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2017/09/26 08:06
S521	421	S520	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2017/09/26 08:06
S526	6162	700/1,282,275,281,42.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2019/02/25 11:11
S527	7047	702/6,13,183,188.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2019/02/25 11:11
S528	26678	709/224.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2019/02/25 11:11
S529	1163	166/336,363,250.1.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2019/02/25 11:11
S530	553	340/853.3,853.2,856.3.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2019/02/25 11:11
S531	41304	S526 S527 S528 S529 S530	US-PGPUB; USPAT; EPO	OR	ON	2019/02/25 11:11
S532	255944	(oil hydrocarbon (hydro adj2 carbon) gas) near2 (well site disposal station)	US-PGPUB; USPAT; EPO	OR	ON	2019/02/25 11:11
S533	3560512	(controller control device) near2 (operate operat$4 adjust drive move close)	US-PGPUB; USPAT; EPO	OR	ON	2019/02/25 11:11
S534	80	((AARON) near2 (PHILLIPS)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2019/02/25 11:11
S535	5	((AARON) near2 (PHILLIPS)).INV.	EPO; JPO; DERWENT	OR	ON	2019/02/25 11:11
S536	13	(AMPLISINE adj2 LABS).as.	EPO; JPO; DERWENT	OR	ON	2019/02/25 11:11

S537	8	real-time and onsite and internet and communication	EPO; JPO; DERWENT	OR	ON	2019/02/25 11:11
S538	20	(US-20040262008-$ or US-20120316658-$ or US-20080208475-$ or US-20060271299-$ or US-20060240818-$ or US-20050092523-$ or US-20040231851-$ or US-20040088115-$ or US-20030182463-$ or US-20020169645-$ or US-20020112860-$).did. or (US-7148812-$ or US-7958938-$ or US-7967066-$ or US-7845404-$ or US-6913083-$ or US-5732776-$ or US-4052703-$ or US-8179279-$).did. or (WO-2008124765-$).did.	US-PGPUB; USPAT; EPO	OR	ON	2019/02/25 11:11
S539	0	S538 and (oil near2 water near2 separation)	US-PGPUB; USPAT; EPO	OR	ON	2019/02/25 11:11
S540	7	S538 and (oil near2 water)	US-PGPUB; USPAT; EPO	OR	ON	2019/02/25 11:11
S541	7529	(oil near2 water near2 separation)	US-PGPUB; USPAT; EPO	OR	ON	2019/02/25 11:11
S542	3807	S541 and pump	US-PGPUB; USPAT; EPO	OR	ON	2019/02/25 11:11
S543	1433	S542 and (oil near2 well)	US-PGPUB; USPAT; EPO	OR	ON	2019/02/25 11:11
S544	390	S543 and (oil near2 level)	US-PGPUB; USPAT; EPO	OR	ON	2019/02/25 11:11
S545	6	S544 and ("700"/$.ccls. "702"/$.ccls.)	US-PGPUB; USPAT; EPO	OR	ON	2019/02/25 11:11
S546	2051	S531 and S532	US-PGPUB; USPAT; EPO	OR	ON	2019/02/25 11:11
S547	3428769	(internet network (web adj2 server))	US-PGPUB; USPAT; EPO	OR	ON	2019/02/25 11:11
S548	31081	(local autonomous independent) near2 (controller control device) near2 (operate operat$4 adjust drive move close)	US-PGPUB; USPAT; EPO	OR	ON	2019/02/25 11:11
S549	979	S533 and S546	US-PGPUB; USPAT; EPO	OR	ON	2019/02/25 11:11
S550	514	S549 and S547	US-PGPUB; USPAT; EPO	OR	ON	2019/02/25 11:11
S551	709	S532 and S548	US-	OR	ON	2019/02/25

			PGPUB; USPAT; EPO			11:11
S552	16	S550 and S551	US-PGPUB; USPAT; EPO	OR	ON	2019/02/25 11:11
S553	23	S532 and S548 and S531	US-PGPUB; USPAT; EPO	OR	ON	2019/02/25 11:11
S554	975821	(remote internet network) near2 (control monitor control$4 monitor$4 command)	US-PGPUB; USPAT; EPO	OR	ON	2019/02/25 11:11
S555	18051	S554 and S532	US-PGPUB; USPAT; EPO	OR	ON	2019/02/25 11:11
S556	286	S555 and S548	US-PGPUB; USPAT; EPO	OR	ON	2019/02/25 11:11
S557	381	S534 S535 S536 S537 S539 S540 S545 S552 S553 S556	US-PGPUB; USPAT; EPO	OR	ON	2019/02/25 11:11
S558	5106	G05D7/0676;G05B9/02;E21B47/00;G05B2219/23472.cpc.	US-PGPUB; USPAT; EPO	OR	ON	2019/02/25 11:11
S559	34	S558 and S548 and S547	US-PGPUB; USPAT; EPO	OR	ON	2019/02/25 11:11
S560	46	(US-20040262008-$ or US-20020161685-$ or US-20090055029-$ or US-20120316658-$ or US-20080208475-$ or US-20060271299-$ or US-20060240818-$ or US-20050092523-$ or US-20040231851-$ or US-20040088115-$ or US-20030182463-$ or US-20020169645-$ or US-20020112860-$ or US-20090149969-$ or US-20100147510-$ or US-20050096846-$ or US-20110231024-$ or US-20120310582-$ or US-20010032518-$ or US-20140163749-$).did. or (US-7289994-$ or US-6801135-$ or US-7148812-$ or US-7958938-$ or US-7967066-$ or US-7845404-$ or US-6913083-$ or US-5732776-$ or US-4052703-$ or US-8179279-$ or US-5149443-$ or US-8386059-$ or US-8131510-$ or US-8373418-$ or US-8312320-$ or US-8290737-$ or US-7931090-$ or US-7921916-$ or US-6061603-$ or US-6192980-$ or US-6435022-$ or US-4823749-$ or US-8208478-$ or US-7347271-$ or US-5959547-$).did. or (WO-2008124765-$).did.	US-PGPUB; USPAT; EPO	OR	ON	2019/02/25 11:11
S561	4	S560 and (network adj2 (address addresses))	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2019/02/25 11:11
S562	47	(US-20120316658-$ or US-20080208475-$ or US-20060271299-$ or US-20060240818-$ or US-	US-PGPUB;	OR	ON	2019/02/25 11:11

		20050092523-$ or US-20040231851-$ or US-20040088115-$ or US-20030182463-$ or US-20020169645-$ or US-20040262008-$ or US-20020112860-$ or US-20090149969-$ or US-20100147510-$ or US-20050096846-$ or US-20110231024-$ or US-20020161685-$ or US-20120310582-$ or US-20010032518-$ or US-20140163749-$ or US-20090055029-$ or US-20020018399-$).did. or (US-7148812-$ or US-7958938-$ or US-7967066-$ or US-7845404-$ or US-6913083-$ or US-5732776-$ or US-4052703-$ or US-8179279-$ or US-5149443-$ or US-8386059-$ or US-8131510-$ or US-7289994-$ or US-8373418-$ or US-8312320-$ or US-8290737-$ or US-7931090-$ or US-7921916-$ or US-6061603-$ or US-6192980-$ or US-6435022-$ or US-4823749-$ or US-8208478-$ or US-7347271-$ or US-5959547-$ or US-5941305-$).did. or (WO-2008124765-$).did.	USPAT; EPO			
S563	29	S562 and (cell cellular wireless)	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2019/02/25 11:11
S564	12	S563 and (web html)	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2019/02/25 11:11
S565	51	(US-20120316658-$ or US-20080208475-$ or US-20060271299-$ or US-20060240818-$ or US-20050092523-$ or US-20040231851-$ or US-20040088115-$ or US-20030182463-$ or US-20020169645-$ or US-20040262008-$ or US-20020112860-$ or US-20090149969-$ or US-20100147510-$ or US-20050096846-$ or US-20110231024-$ or US-20020161685-$ or US-20120310582-$ or US-20010032518-$ or US-20140163749-$ or US-20090055029-$ or US-20020018399-$ or US-20100033318-$).did. or (US-7148812-$ or US-7958938-$ or US-7967066-$ or US-7845404-$ or US-6913083-$ or US-5732776-$ or US-4052703-$ or US-8179279-$ or US-5149443-$ or US-8386059-$ or US-8131510-$ or US-7289994-$ or US-8373418-$ or US-8312320-$ or US-8290737-$ or US-7931090-$ or US-7921916-$ or US-6061603-$ or US-6192980-$ or US-6435022-$ or US-4823749-$ or US-8208478-$ or US-7347271-$ or US-5959547-$ or US-5941305-$ or US-7096092-$).did. or (US-6967589-$ or US-6356205-$).did. or (WO-2008124765-$).did.	US-PGPUB; USPAT; EPO	OR	ON	2019/02/25 11:11
S566	20	S565 and (cell cellular)	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2019/02/25 11:11
S567	48	(US-20120029661-$ or US-20080077512-$ or US-20100179669-$ or US-20040125141-$ or US-20040075689-$ or US-20040064205-$ or US-20120041570-$ or US-20050027377-$ or US-20050027376-$ or US-20110173556-$ or US-20080208380-$ or US-20070179641-$ or US-20050120288-$ or US-20040186927-$ or US-20030233438-$ or US-20030225650-$ or US-20030107591-$ or US-20090327942-$ or US-20080189638-$ or US-20080125877-$ or US-	US-PGPUB; USPAT	OR	ON	2019/02/25 11:11

		20080065706-$ or US-20080065705-$ or US-20080034047-$ or US-20070239291-$).did. or (US-6931288-$ or US-7515977-$ or US-8677262-$ or US-8533619-$ or US-8356257-$ or US-7680546-$ or US-7526794-$ or US-6889096-$ or US-8516383-$ or US-7971151-$ or US-7783370-$ or US-7729792-$ or US-7526347-$ or US-7152072-$ or US-7117052-$ or US-7043311-$ or US-6834370-$ or US-6735596-$ or US-6442512-$ or US-6434500-$ or US-5631825-$ or US-6445963-$ or US-6522934-$ or US-6247020-$).did.				
S568	24	S567 and (address addresses)	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2019/02/25 11:11
S569	17	S567 and (cell cellular)	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2019/02/25 11:11
S570	13	S568 and S569	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2019/02/25 11:11
S571	6162	700/1,282,275,281,42.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2019/02/25 11:11
S572	7047	702/6,13,183,188.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2019/02/25 11:11
S573	26678	709/224.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2019/02/25 11:11
S574	1163	166/336,363,250.1.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2019/02/25 11:11
S575	553	340/853.3,853.2,856.3.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2019/02/25 11:11
S576	41304	S571 S572 S573 S574 S575	US-PGPUB; USPAT; EPO	OR	ON	2019/02/25 11:11
S577	113460	(G05D7/0676 or H04L67/02 or G05B19/0428 or G06F3/0484 or E21B47/00 or G05B9/02 or G05B2219/24015 or G05B2219/25204 or G05B2219/31369 or G05B2219/23472).cpc.	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2019/02/25 11:11
S578	152783	S577 S576	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2019/02/25 11:11
S579	428	((web html) near4 (control controlling) near4 (actuator controller valve)).ab.	US-PGPUB;	OR	ON	2019/02/25 11:11

			USPAT; FPRS; EPO			
S580	22	S578 and S579	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2019/02/25 11:11
S581	19	S579 and 700/$.ccls.	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2019/02/25 11:11
S582	36	S580 S581	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2019/02/25 11:11
S583	54	(US-20120316658-$ or US-20080208475-$ or US-20060271299-$ or US-20060240818-$ or US-20050092523-$ or US-20040231851-$ or US-20040088115-$ or US-20030182463-$ or US-20020169645-$ or US-20040262008-$ or US-20020112860-$ or US-20090149969-$ or US-20100147510-$ or US-20050096846-$ or US-20110231024-$ or US-20020161685-$ or US-20120310582-$ or US-20010032518-$ or US-20140163749-$ or US-20090055029-$ or US-20020018399-$ or US-20100033318-$ or US-20080077512-$ or US-20030052180-$).did. or (US-7148812-$ or US-7958938-$ or US-7967066-$ or US-7845404-$ or US-6913083-$ or US-5732776-$ or US-4052703-$ or US-8179279-$ or US-5149443-$ or US-8386059-$ or US-8131510-$ or US-7289994-$ or US-8373418-$ or US-8312320-$ or US-8290737-$ or US-7931090-$ or US-7921916-$ or US-6061603-$ or US-6192980-$ or US-6435022-$ or US-4823749-$ or US-8208478-$ or US-7347271-$ or US-5959547-$ or US-5941305-$ or US-7096092-$).did. or (US-6967589-$ or US-6356205-$ or US-5805926-$).did. or (WO-2008124765-$).did.	US-PGPUB; USPAT; EPO	OR	ON	2019/02/25 11:11
S584	2	S583 and (leak adj4 sensor)	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2019/02/25 11:11
S585	8	S583 and (private)	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2019/02/25 11:11
S586	6	S583 and (carrier)	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2019/02/25 11:11
S587	2	S583 and (validity)	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2019/02/25 11:11
S588	137	("5247447" | "5272642" | "5353229").PN. OR	US-	OR	ON	2019/02/25

		("5546301").URPN.	PGPUB; USPAT; USOCR			11:11
S589	23	S588 and thread	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2019/02/25 11:11
S590	0	(thread near4 (actuator and sensor and synchronize and data))	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2019/02/25 11:11
S591	163	(thread near4 (actuator and sensor))	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2019/02/25 11:11
S592	10	S591 and 700/$.ccls.	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2019/02/25 11:11
S593	531	S557 S590 S592 S589 S584 S585 S586 S587 S582 S581 S580 S570 S569 S568 S566 S561 S563 S564 S559	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2019/02/25 11:11
S594	531	S593	US-PGPUB; USPAT; FPRS; EPO; DERWENT	OR	ON	2019/02/25 11:11
S595	6159	700/1,282,275,281,42.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2019/07/15 08:47
S596	7059	702/6,13,183,188.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2019/07/15 08:47
S597	26673	709/224.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2019/07/15 08:47
S598	1163	166/336,363,250.1.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2019/07/15 08:47
S599	552	340/853.3,853.2,856.3.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2019/07/15 08:47
S600	41307	S595 S596 S597 S598 S599	US-PGPUB; USPAT; EPO	OR	ON	2019/07/15 08:47
S601	262037	(oil hydrocarbon (hydro adj2 carbon) gas) near2 (well site disposal station)	US-PGPUB; USPAT;	OR	ON	2019/07/15 08:47

			EPO			
S602	3673947	(controller control device) near2 (operate operat$4 adjust drive move close)	US-PGPUB; USPAT; EPO	OR	ON	2019/07/15 08:47
S603	87	((AARON) near2 (PHILLIPS)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/15 08:47
S604	5	((AARON) near2 (PHILLIPS)).INV.	EPO; JPO; DERWENT	OR	ON	2019/07/15 08:47
S605	13	(AMPLISINE adj2 LABS).as.	EPO; JPO; DERWENT	OR	ON	2019/07/15 08:47
S606	8	real-time and onsite and internet and communication	EPO; JPO; DERWENT	OR	ON	2019/07/15 08:47
S607	20	(US-20040262008-$ or US-20120316658-$ or US-20080208475-$ or US-20060271299-$ or US-20060240818-$ or US-20050092523-$ or US-20040231851-$ or US-20040088115-$ or US-20030182463-$ or US-20020169645-$ or US-20020112860-$).did. or (US-7148812-$ or US-7958938-$ or US-7967066-$ or US-7845404-$ or US-6913083-$ or US-5732776-$ or US-4052703-$ or US-8179279-$).did. or (WO-2008124765-$).did.	US-PGPUB; USPAT; EPO	OR	ON	2019/07/15 08:47
S608	0	S607 and (oil near2 water near2 separation)	US-PGPUB; USPAT; EPO	OR	ON	2019/07/15 08:47
S609	7	S607 and (oil near2 water)	US-PGPUB; USPAT; EPO	OR	ON	2019/07/15 08:47
S610	7745	(oil near2 water near2 separation)	US-PGPUB; USPAT; EPO	OR	ON	2019/07/15 08:47
S611	3922	S610 and pump	US-PGPUB; USPAT; EPO	OR	ON	2019/07/15 08:47
S612	1472	S611 and (oil near2 well)	US-PGPUB; USPAT; EPO	OR	ON	2019/07/15 08:47
S613	404	S612 and (oil near2 level)	US-PGPUB; USPAT; EPO	OR	ON	2019/07/15 08:47
S614	6	S613 and ("700"/$.ccls. "702"/$.ccls.)	US-PGPUB; USPAT; EPO	OR	ON	2019/07/15 08:47
S615	2062	S600 and S601	US-PGPUB; USPAT; EPO	OR	ON	2019/07/15 08:47
S616	3552609	(internet network (web adj2 server))	US-PGPUB; USPAT; EPO	OR	ON	2019/07/15 08:47

S617	32585	(local autonomous independent) near2 (controller control device) near2 (operate operat$4 adjust drive move close)	US-PGPUB; USPAT; EPO	OR	ON	2019/07/15 08:47
S618	990	S602 and S615	US-PGPUB; USPAT; EPO	OR	ON	2019/07/15 08:47
S619	526	S618 and S616	US-PGPUB; USPAT; EPO	OR	ON	2019/07/15 08:47
S620	799	S601 and S617	US-PGPUB; USPAT; EPO	OR	ON	2019/07/15 08:47
S621	25	S619 and S620	US-PGPUB; USPAT; EPO	OR	ON	2019/07/15 08:47
S622	32	S601 and S617 and S600	US-PGPUB; USPAT; EPO	OR	ON	2019/07/15 08:47
S623	1012917	(remote internet network) near2 (control monitor control$4 monitor$4 command)	US-PGPUB; USPAT; EPO	OR	ON	2019/07/15 08:47
S624	18822	S623 and S601	US-PGPUB; USPAT; EPO	OR	ON	2019/07/15 08:47
S625	338	S624 and S617	US-PGPUB; USPAT; EPO	OR	ON	2019/07/15 08:47
S626	440	S603 S604 S605 S606 S608 S609 S614 S621 S622 S625	US-PGPUB; USPAT; EPO	OR	ON	2019/07/15 08:47
S627	5397	G05D7/0676;G05B9/02;E21B47/00;G05B2219/23472.cpc.	US-PGPUB; USPAT; EPO	OR	ON	2019/07/15 08:47
S628	42	S627 and S617 and S616	US-PGPUB; USPAT; EPO	OR	ON	2019/07/15 08:47
S629	46	(US-20040262008-$ or US-20020161685-$ or US-20090055029-$ or US-20120316658-$ or US-20080208475-$ or US-20060271299-$ or US-20060240818-$ or US-20050092523-$ or US-20040231851-$ or US-20040088115-$ or US-20030182463-$ or US-20020169645-$ or US-20020112860-$ or US-20090149969-$ or US-20100147510-$ or US-20050096846-$ or US-20110231024-$ or US-20120310582-$ or US-20010032518-$ or US-20140163749-$).did. or (US-7289994-$ or US-6801135-$ or US-7148812-$ or US-7958938-$ or US-7967066-$ or US-7845404-$ or US-6913083-$ or US-5732776-$ or US-4052703-$ or US-	US-PGPUB; USPAT; EPO	OR	ON	2019/07/15 08:47

		8179279-$ or US-5149443-$ or US-8386059-$ or US-8131510-$ or US-8373418-$ or US-8312320-$ or US-8290737-$ or US-7931090-$ or US-7921916-$ or US-6061603-$ or US-6192980-$ or US-6435022-$ or US-4823749-$ or US-8208478-$ or US-7347271-$ or US-5959547-$).did. or (WO-2008124765-$).did.				
S630	4	S629 and (network adj2 (address addresses))	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2019/07/15 08:47
S631	47	(US-20120316658-$ or US-20080208475-$ or US-20060271299-$ or US-20060240818-$ or US-20050092523-$ or US-20040231851-$ or US-20040088115-$ or US-20030182463-$ or US-20020169645-$ or US-20040262008-$ or US-20020112860-$ or US-20090149969-$ or US-20100147510-$ or US-20050096846-$ or US-20110231024-$ or US-20020161685-$ or US-20120310582-$ or US-20010032518-$ or US-20140163749-$ or US-20090055029-$ or US-20020018399-$).did. or (US-7148812-$ or US-7958938-$ or US-7967066-$ or US-7845404-$ or US-6913083-$ or US-5732776-$ or US-4052703-$ or US-8179279-$ or US-5149443-$ or US-8386059-$ or US-8131510-$ or US-7289994-$ or US-8373418-$ or US-8312320-$ or US-8290737-$ or US-7931090-$ or US-7921916-$ or US-6061603-$ or US-6192980-$ or US-6435022-$ or US-4823749-$ or US-8208478-$ or US-7347271-$ or US-5959547-$ or US-5941305-$).did. or (WO-2008124765-$).did.	US-PGPUB; USPAT; EPO	OR	ON	2019/07/15 08:47
S632	29	S631 and (cell cellular wireless)	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2019/07/15 08:47
S633	12	S632 and (web html)	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2019/07/15 08:47
S634	51	(US-20120316658-$ or US-20080208475-$ or US-20060271299-$ or US-20060240818-$ or US-20050092523-$ or US-20040231851-$ or US-20040088115-$ or US-20030182463-$ or US-20020169645-$ or US-20040262008-$ or US-20020112860-$ or US-20090149969-$ or US-20100147510-$ or US-20050096846-$ or US-20110231024-$ or US-20020161685-$ or US-20120310582-$ or US-20010032518-$ or US-20140163749-$ or US-20090055029-$ or US-20020018399-$ or US-20100033318-$).did. or (US-7148812-$ or US-7958938-$ or US-7967066-$ or US-7845404-$ or US-6913083-$ or US-5732776-$ or US-4052703-$ or US-8179279-$ or US-5149443-$ or US-8386059-$ or US-8131510-$ or US-7289994-$ or US-8373418-$ or US-8312320-$ or US-8290737-$ or US-7931090-$ or US-7921916-$ or US-6061603-$ or US-6192980-$ or US-6435022-$ or US-4823749-$ or US-8208478-$ or US-7347271-$ or US-5959547-$ or US-5941305-$ or US-7096092-$).did. or (US-6967589-$ or US-6356205-$).did. or (WO-2008124765-$).did.	US-PGPUB; USPAT; EPO	OR	ON	2019/07/15 08:47
S635	20	S634 and (cell cellular)	US-	OR	ON	2019/07/15

			PGPUB; USPAT; FPRS; EPO			08:47
S636	48	(US-20120029661-$ or US-20080077512-$ or US-20100179669-$ or US-20040125141-$ or US-20040075689-$ or US-20040064205-$ or US-20120041570-$ or US-20050027377-$ or US-20050027376-$ or US-20110173556-$ or US-20080208380-$ or US-20070179641-$ or US-20050120288-$ or US-20040186927-$ or US-20030233438-$ or US-20030225650-$ or US-20030107591-$ or US-20090327942-$ or US-20080189638-$ or US-20080125877-$ or US-20080065706-$ or US-20080065705-$ or US-20080034047-$ or US-20070239291-$).did. or (US-6931288-$ or US-7515977-$ or US-8677262-$ or US-8533619-$ or US-8356257-$ or US-7680546-$ or US-7526794-$ or US-6889096-$ or US-8516383-$ or US-7971151-$ or US-7783370-$ or US-7729792-$ or US-7526347-$ or US-7152072-$ or US-7117052-$ or US-7043311-$ or US-6834370-$ or US-6735596-$ or US-6442512-$ or US-6434500-$ or US-5631825-$ or US-6445963-$ or US-6522934-$ or US-6247020-$).did.	US-PGPUB; USPAT	OR	ON	2019/07/15 08:47
S637	24	S636 and (address addresses)	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2019/07/15 08:47
S638	17	S636 and (cell cellular)	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2019/07/15 08:47
S639	13	S637 and S638	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2019/07/15 08:47
S640	6159	700/1,282,275,281,42.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2019/07/15 08:47
S641	7059	702/6,13,183,188.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2019/07/15 08:47
S642	26673	709/224.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2019/07/15 08:47
S643	1163	166/336,363,250.1.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2019/07/15 08:47
S644	552	340/853.3,853.2,856.3.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2019/07/15 08:47
S645	41307	S640 S641 S642 S643 S644	US-PGPUB; USPAT;	OR	ON	2019/07/15 08:47

			EPO			
S646	119993	(G05D7/0676 or H04L67/02 or G05B19/0428 or G06F3/0484 or E21B47/00 or G05B9/02 or G05B2219/24015 or G05B2219/25204 or G05B2219/31369 or G05B2219/23472).cpc.	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2019/07/15 08:47
S647	159311	S646 S645	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2019/07/15 08:47
S648	440	((web html) near4 (control controlling) near4 (actuator controller valve)).ab.	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2019/07/15 08:47
S649	26	S647 and S648	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2019/07/15 08:47
S650	19	S648 and 700/$.ccls.	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2019/07/15 08:47
S651	40	S649 S650	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2019/07/15 08:47
S652	54	(US-20120316658-$ or US-20080208475-$ or US-20060271299-$ or US-20060240818-$ or US-20050092523-$ or US-20040231851-$ or US-20040088115-$ or US-20030182463-$ or US-20020169645-$ or US-20040262008-$ or US-20020112860-$ or US-20090149969-$ or US-20100147510-$ or US-20050096846-$ or US-20110231024-$ or US-20020161685-$ or US-20120310582-$ or US-20010032518-$ or US-20140163749-$ or US-20090055029-$ or US-20020018399-$ or US-20100033318-$ or US-20080077512-$ or US-20030052180-$).did. or (US-7148812-$ or US-7958938-$ or US-7967066-$ or US-7845404-$ or US-6913083-$ or US-5732776-$ or US-4052703-$ or US-8179279-$ or US-5149443-$ or US-8386059-$ or US-8131510-$ or US-7289994-$ or US-8373418-$ or US-8312320-$ or US-8290737-$ or US-7931090-$ or US-7921916-$ or US-6061603-$ or US-6192980-$ or US-6435022-$ or US-4823749-$ or US-8208478-$ or US-7347271-$ or US-5959547-$ or US-5941305-$ or US-7096092-$).did. or (US-6967589-$ or US-6356205-$ or US-5805926-$).did. or (WO-2008124765-$).did.	US-PGPUB; USPAT; EPO	OR	ON	2019/07/15 08:47
S653	2	S652 and (leak adj4 sensor)	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2019/07/15 08:47
S654	8	S652 and (private)	US-PGPUB; USPAT;	OR	ON	2019/07/15 08:47

			FPRS; EPO			
S655	6	S652 and (carrier)	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2019/07/15 08:47
S656	2	S652 and (validity)	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2019/07/15 08:47
S657	137	("5247447" | "5272642" | "5353229").PN. OR ("5546301").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/15 08:47
S658	23	S657 and thread	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2019/07/15 08:47
S659	0	(thread near4 (actuator and sensor and synchronize and data))	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2019/07/15 08:47
S660	164	(thread near4 (actuator and sensor))	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2019/07/15 08:47
S661	10	S660 and 700/$.ccls.	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2019/07/15 08:47
S662	602	S626 S659 S661 S658 S653 S654 S655 S656 S651 S650 S649 S639 S638 S637 S635 S630 S632 S633 S628	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2019/07/15 08:47
S663	602	S662	US-PGPUB; USPAT; FPRS; EPO; DERWENT	OR	ON	2019/07/15 08:47
S664	6159	700/1,282,275,281,42.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2019/07/15 08:47
S665	7059	702/6,13,183,188.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2019/07/15 08:47
S666	26673	709/224.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2019/07/15 08:47
S667	1163	166/336,363,250.1.ccls.	US-PGPUB;	OR	ON	2019/07/15 08:47

			USPAT; EPO			
S668	552	340/853.3,853.2,856.3.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2019/07/15 08:47
S669	41307	S664 S665 S666 S667 S668	US-PGPUB; USPAT; EPO	OR	ON	2019/07/15 08:47
S670	262037	(oil hydrocarbon (hydro adj2 carbon) gas) near2 (well site disposal station)	US-PGPUB; USPAT; EPO	OR	ON	2019/07/15 08:47
S671	3673947	(controller control device) near2 (operate operat$4 adjust drive move close)	US-PGPUB; USPAT; EPO	OR	ON	2019/07/15 08:47
S672	87	((AARON) near2 (PHILLIPS)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2019/07/15 08:47
S673	5	((AARON) near2 (PHILLIPS)).INV.	EPO; JPO; DERWENT	OR	ON	2019/07/15 08:47
S674	13	(AMPLISINE adj2 LABS).as.	EPO; JPO; DERWENT	OR	ON	2019/07/15 08:47
S675	8	real-time and onsite and internet and communication	EPO; JPO; DERWENT	OR	ON	2019/07/15 08:47
S676	20	(US-20040262008-$ or US-20120316658-$ or US-20080208475-$ or US-20060271299-$ or US-20060240818-$ or US-20050092523-$ or US-20040231851-$ or US-20040088115-$ or US-20030182463-$ or US-20020169645-$ or US-20020112860-$).did. or (US-7148812-$ or US-7958938-$ or US-7967066-$ or US-7845404-$ or US-6913083-$ or US-5732776-$ or US-4052703-$ or US-8179279-$).did. or (WO-2008124765-$).did.	US-PGPUB; USPAT; EPO	OR	ON	2019/07/15 08:47
S677	0	S676 and (oil near2 water near2 separation)	US-PGPUB; USPAT; EPO	OR	ON	2019/07/15 08:47
S678	7	S676 and (oil near2 water)	US-PGPUB; USPAT; EPO	OR	ON	2019/07/15 08:47
S679	7745	(oil near2 water near2 separation)	US-PGPUB; USPAT; EPO	OR	ON	2019/07/15 08:47
S680	3922	S679 and pump	US-PGPUB; USPAT; EPO	OR	ON	2019/07/15 08:47
S681	1472	S680 and (oil near2 well)	US-PGPUB; USPAT; EPO	OR	ON	2019/07/15 08:47
S682	404	S681 and (oil near2 level)	US-PGPUB; USPAT;	OR	ON	2019/07/15 08:47

			EPO			
S683	6	S682 and ("700"/$.ccls. "702"/$.ccls.)	US-PGPUB; USPAT; EPO	OR	ON	2019/07/15 08:47
S684	2062	S669 and S670	US-PGPUB; USPAT; EPO	OR	ON	2019/07/15 08:47

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S141	0	(translating plurality commands translated commands encoded plurality protocols different from the first protocol each translated command being translated into a protocol among the plurality of protocols suitable for a fluid handling device to which the respective command is directed the at least some of the translated command being operative to cause a local controller of the given fluid-handling device to drive the given fluid-handling device to the plurality of different target states the local controller being responsive to the translated commands and feedback from the given fluid handling device indicative of whether the given fluid handling device is in a targeted state).clm.	US-PGPUB; USPAT	AND	ON	2013/10/25 13:15
S142	0	(translating plurality commands translated commands encoded plurality protocols different from the first protocol each translated command being translated into a protocol among the plurality of protocols suitable for a fluid handling device to which the respective command is directed the at least some of the translated command being operative to cause a local controller of the given fluid-handling device).clm.	US-PGPUB; USPAT	AND	ON	2013/10/25 13:16
S143	0	(sending the translated commands to respective local controllers of the respective fluid handling devices to which the respective commands are directed).clm.	US-PGPUB; USPAT	AND	ON	2013/10/25 13:16
S272	0	(obtaining a target state of at least one of the fluid handling devices based on at least some of the plurality of instructions wherein obtaining a target state of at least one of the fluid handling devices based on at least some of the plurality of instructions comprises after receiving the instructions determining a plurality of different target states of the at least one of the fluid handling devices, the plurality of different states each corresponding to different times after determining the plurality of different target states translating each received instructions into one or more translated instructions encoded in the selected respective protocol or protocols the one or more translated instructions including the determined plurality of different target states).clm.	US-PGPUB; USPAT	AND	ON	2015/09/21 08:51
S273	0	(obtaining a target state of at least one of the fluid handling devices based on at least some of the plurality of instructions wherein obtaining a	US-PGPUB; USPAT	AND	ON	2015/09/21 08:51

		target state of at least one of the fluid handling devices based on at least some of the plurality of instructions comprises after receiving the instructions determining a plurality of different target states of the at least one of the fluid handling devices).clm.				
S274	0	(obtaining a target state of at least one of the fluid handling devices based on at least some of the plurality of instructions wherein obtaining a target state).clm.	US-PGPUB; USPAT	AND	ON	2015/09/21 08:51
S275	0	(the plurality of different states each corresponding to different times after determining the plurality of different target states translating each received instructions into one or more translated instructions encoded in the selected respective protocol or protocols the one or more translated instructions including the determined plurality of different target states).clm.	US-PGPUB; USPAT	AND	ON	2015/09/21 08:51
S522	0	(a computer-implemented web interface module modules configured to send instructions to present control interfaces in web browsers executing on user computing devices logged in to the accounts and to receive commands to control actuators from the user computing devices wherein the system is configured to receive with the web-interface module or modules a user command to actuate an actuator entered via a presented control interface identify a network address in the datastore corresponding to a facility at which the actuator is located and send instructions with the facility-interface module modules to the facility to actuate the actuator wherein the plurality of accounts include a first account a second account a third account and a fourth account the first account corresponds to a first group of oil gas facilities users of the first account being authorized to send commands to remotely control fluid handling devices at the first group of oil gas facilities the second account corresponds to a second group of oil gas facilities the first group being different from the second group users of the second account being authorized to send commands to remotely control fluid handling devices at the second group of oil gas facilities the third account corresponds to the first group of oil or gas facilities users of the third account being authorized to view reports of data from fluid handling devices at the first group of oil gas facilities the fourth account corresponds to the second group of oil gas facilities users of the fourth account being authorized to view reports of data from fluid handling devices at the second group of oil gas facilities).clm.	US-PGPUB; USPAT	AND	ON	2017/09/26 08:20
S523	0	(a computer-implemented web interface module modules configured to send instructions to present control interfaces in web browsers executing on user computing devices logged in to the accounts and to receive commands to control actuators from the user computing devices wherein the system is configured to receive with the web-interface module or	US-PGPUB; USPAT	AND	ON	2017/09/26 08:20

		modules a user command to actuate an actuator entered via a presented control interface identify a network address in the datastore corresponding to a facility at which the actuator is located and send instructions with the facility-interface module modules to the facility to actuate the actuator wherein the plurality of accounts include a first account a second account a third account and a fourth account the first account corresponds to a first group of oil gas facilities users of the first account being authorized to send commands to remotely control fluid handling devices at the first group of oil gas facilities the second account corresponds to a second group of oil gas facilities the first group being different from the second group users of the second account being authorized to send commands to remotely control fluid handling devices at the second group of oil gas facilities the third account corresponds to the first group of oil gas facilities users of the third account being authorized to view reports of data from fluid handling devices at the first group of oil gas facilities the fourth account corresponds to the second group of oil gas facilities users of the fourth account being authorized to view reports of data from fluid handling devices at the second group of oil gas facilities).clm.				
S524	0	(actuate an actuator entered via a presented control interface identify a network address in the datastore corresponding to a facility at which the actuator is located and send instructions with the facility-interface module modules to the facility to actuate the actuator wherein the plurality of accounts include a first account a second account a third account and a fourth account the first account corresponds to a first group of oil gas facilities users of the first account being authorized to send commands to remotely control fluid handling devices at the first group of oil gas facilities the second account corresponds to a second group of oil gas facilities the first group being different from the second group users of the second account being authorized to send commands to remotely control fluid handling devices at the second group of oil gas facilities the third account corresponds to the first group of oil gas facilities users of the third account being authorized to view reports of data from fluid handling devices at the first group of oil gas facilities the fourth account corresponds to the second group of oil gas facilities users of the fourth account being authorized to view reports of data from fluid handling devices at the second group of oil gas facilities).clm.	US-PGPUB; USPAT	AND	ON	2017/09/26 08:20
S525	0	(a computer-implemented web interface module modules configured to send instructions to present control interfaces in web browsers executing on user computing devices logged in to the accounts and to receive commands to control actuators from the user computing devices wherein the system is configured to receive with the web-interface module or	US-PGPUB; USPAT	AND	ON	2017/09/26 08:20

		modules a user command to actuate an actuator entered via a presented control interface identify a network address in the datastore corresponding to a facility at which the actuator is located and send instructions with the facility-interface module modules to the facility to actuate the actuator wherein the plurality of accounts include a first account a second account a third account and a fourth account the first account corresponds to a first group of oil gas facilities users of the first account being authorized to send commands to remotely control fluid handling devices at the first group of oil gas facilities the second account corresponds to a second group of oil gas facilities the first group being different from the second group users of the second account being authorized to send commands to remotely control fluid handling devices at the second group of oil gas facilities the third account corresponds to the first).clm.				
S685	129	(a computer-implemented user-interface module or modules configured to send respective instructions to present respective control interfaces on respective user computing devices logged in to respective ones of the accounts and to receive respective commands to control respective actuators from the respective user computing devices wherein the system is configured to receive with the user-interface module modules a user command to actuate an actuator entered via a presented control interface identify an address in the datastore corresponding to a facility at which the actuator is located and send instructions with the facility-interface module modules to the facility to actuate the actuator the plurality of accounts include a first account a second account a third account and a fourth account the first account corresponds to a first group of fluid-handling facilities, one or more users of the first account being authorized to send commands to remotely control fluid handling devices at the first group of fluid-handling facilities the second account corresponds to a second group of fluid-handling facilities, the first group being different from the second group one more users of the second account being authorized to send commands to remotely control fluid handling devices at the second group of fluid-handling facilities the third account corresponds to the first group of fluid-handling facilities one more users of the third account being authorized to view reports of data from fluid handling devices at the first group of fluid-handling facilities the fourth account corresponds to the second group of fluid-handling facilities, one more users of the of the fourth account being authorized to view reports of data from fluid handling devices at the second group of fluid-handling facilities).clm.	US-PGPUB; USPAT	AND	ON	2019/07/15 08:45
S686	0	(user command to actuate an actuator entered via a presented control interface identify an address in the datastore corresponding to a facility at which the actuator is located and send instructions with the facility-interface module	US-PGPUB; USPAT	AND	ON	2019/07/15 08:45

		modules to the facility to actuate the actuator the plurality of accounts include a first account a second account a third account and a fourth account the first account corresponds to a first group of fluid-handling facilities, one or more users of the first account being authorized to send commands to remotely control fluid handling devices at the first group of fluid-handling facilities the second account corresponds to a second group of fluid-handling facilities, the first group being different from the second group one more users of the second account being authorized to send commands to remotely control fluid handling devices at the second group of fluid-handling facilities the third account corresponds to the first group of fluid-handling facilities one more users of the third account being authorized to view reports of data from fluid handling devices at the first group of fluid-handling facilities the fourth account corresponds to the second group of fluid-handling facilities, one more users of the of the fourth account being authorized to view reports of data from fluid handling devices at the second group of fluid-handling facilities).clm.				
S687	0	(translating plurality commands translated commands encoded plurality protocols different from the first protocol each translated command being translated into a protocol among the plurality of protocols suitable for a fluid handling device to which the respective command is directed the at least some of the translated command being operative to cause a local controller of the given fluid-handling device to drive the given fluid-handling device to the plurality of different target states the local controller being responsive to the translated commands and feedback from the given fluid handling device indicative of whether the given fluid handling device is in a targeted state).clm.	US-PGPUB; USPAT	AND	ON	2019/07/15 08:45
S688	0	(translating plurality commands translated commands encoded plurality protocols different from the first protocol each translated command being translated into a protocol among the plurality of protocols suitable for a fluid handling device to which the respective command is directed the at least some of the translated command being operative to cause a local controller of the given fluid-handling device).clm.	US-PGPUB; USPAT	AND	ON	2019/07/15 08:45
S689	0	(sending the translated commands to respective local controllers of the respective fluid handling devices to which the respective commands are directed).clm.	US-PGPUB; USPAT	AND	ON	2019/07/15 08:45
S690	0	(obtaining a target state of at least one of the fluid handling devices based on at least some of the plurality of instructions wherein obtaining a target state of at least one of the fluid handling devices based on at least some of the plurality of instructions comprises after receiving the instructions determining a plurality of different target states of the at least one of the fluid handling devices, the plurality of different states each corresponding to different times after	US-PGPUB; USPAT	AND	ON	2019/07/15 08:45

		determining the plurality of different target states translating each received instructions into one or more translated instructions encoded in the selected respective protocol or protocols the one or more translated instructions including the determined plurality of different target states).clm.				
S691	0	(obtaining a target state of at least one of the fluid handling devices based on at least some of the plurality of instructions wherein obtaining a target state of at least one of the fluid handling devices based on at least some of the plurality of instructions comprises after receiving the instructions determining a plurality of different target states of the at least one of the fluid handling devices).clm.	US-PGPUB; USPAT	AND	ON	2019/07/15 08:45
S692	0	(obtaining a target state of at least one of the fluid handling devices based on at least some of the plurality of instructions wherein obtaining a target state).clm.	US-PGPUB; USPAT	AND	ON	2019/07/15 08:45
S693	0	(the plurality of different states each corresponding to different times after determining the plurality of different target states translating each received instructions into one or more translated instructions encoded in the selected respective protocol or protocols the one or more translated instructions including the determined plurality of different target states).clm.	US-PGPUB; USPAT	AND	ON	2019/07/15 08:45
S694	0	(a computer-implemented web interface module modules configured to send instructions to present control interfaces in web browsers executing on user computing devices logged in to the accounts and to receive commands to control actuators from the user computing devices wherein the system is configured to receive with the web-interface module or modules a user command to actuate an actuator entered via a presented control interface identify a network address in the datastore corresponding to a facility at which the actuator is located and send instructions with the facility-interface module modules to the facility to actuate the actuator wherein the plurality of accounts include a first account a second account a third account and a fourth account the first account corresponds to a first group of oil gas facilities users of the first account being authorized to send commands to remotely control fluid handling devices at the first group of oil gas facilities the second account corresponds to a second group of oil gas facilities the first group being different from the second group users of the second account being authorized to send commands to remotely control fluid handling devices at the second group of oil gas facilities the third account corresponds to the first group of oil or gas facilities users of the third account being authorized to view reports of data from fluid handling devices at the first group of oil gas facilities the fourth account corresponds to the second group of oil gas facilities users of the fourth account being authorized to view reports	US-PGPUB; USPAT	AND	ON	2019/07/15 08:45

		of data from fluid handling devices at the second group of oil gas facilities).clm.				
S695	0	(a computer-implemented web interface module modules configured to send instructions to present control interfaces in web browsers executing on user computing devices logged in to the accounts and to receive commands to control actuators from the user computing devices wherein the system is configured to receive with the web-interface module or modules a user command to actuate an actuator entered via a presented control interface identify a network address in the datastore corresponding to a facility at which the actuator is located and send instructions with the facility-interface module modules to the facility to actuate the actuator wherein the plurality of accounts include a first account a second account a third account and a fourth account the first account corresponds to a first group of oil gas facilities users of the first account being authorized to send commands to remotely control fluid handling devices at the first group of oil gas facilities the second account corresponds to a second group of oil gas facilities the first group being different from the second group users of the second account being authorized to send commands to remotely control fluid handling devices at the second group of oil gas facilities the third account corresponds to the first group of oil gas facilities users of the third account being authorized to view reports of data from fluid handling devices at the first group of oil gas facilities the fourth account corresponds to the second group of oil gas facilities users of the fourth account being authorized to view reports of data from fluid handling devices at the second group of oil gas facilities).clm.	US-PGPUB; USPAT	AND	ON	2019/07/15 08:45
S696	0	(actuate an actuator entered via a presented control interface identify a network address in the datastore corresponding to a facility at which the actuator is located and send instructions with the facility-interface module modules to the facility to actuate the actuator wherein the plurality of accounts include a first account a second account a third account and a fourth account the first account corresponds to a first group of oil gas facilities users of the first account being authorized to send commands to remotely control fluid handling devices at the first group of oil gas facilities the second account corresponds to a second group of oil gas facilities the first group being different from the second group users of the second account being authorized to send commands to remotely control fluid handling devices at the second group of oil gas facilities the third account corresponds to the first group of oil gas facilities users of the third account being authorized to view reports of data from fluid handling devices at the first group of oil gas facilities the fourth account corresponds to the second group of oil gas facilities users of the fourth account being authorized to view reports of data from fluid	US-PGPUB; USPAT	AND	ON	2019/07/15 08:45

		handling devices at the second group of oil gas facilities).clm.				
S697	0	(a computer-implemented web interface module modules configured to send instructions to present control interfaces in web browsers executing on user computing devices logged in to the accounts and to receive commands to control actuators from the user computing devices wherein the system is configured to receive with the web-interface module or modules a user command to actuate an actuator entered via a presented control interface identify a network address in the datastore corresponding to a facility at which the actuator is located and send instructions with the facility-interface module modules to the facility to actuate the actuator wherein the plurality of accounts include a first account a second account a third account and a fourth account the first account corresponds to a first group of oil gas facilities users of the first account being authorized to send commands to remotely control fluid handling devices at the first group of oil gas facilities the second account corresponds to a second group of oil gas facilities the first group being different from the second group users of the second account being authorized to send commands to remotely control fluid handling devices at the second group of oil gas facilities the third account corresponds to the first).clm.	US-PGPUB; USPAT	AND	ON	2019/07/15 08:45
S698	0	S687 S688 S689 S690 S691 S692 S693 S694 S695 S696 S697	US-PGPUB; USPAT	AND	ON	2019/07/15 08:45
S699	0	(a computer-implemented user-interface module modules configured to send respective instructions to present respective control interfaces on respective user computing devices logged in to respective ones of the accounts and to receive respective commands to control respective actuators from the respective user computing devices wherein the system is configured to receive with the user-interface module modules a user command to actuate an actuator entered via a presented control interface identify an address in the datastore corresponding to a facility at which the actuator is located and send instructions with the facility-interface module modules to the facility to actuate the actuator the plurality of accounts include a first account a second account a third account and a fourth account the first account corresponds to a first group of fluid-handling facilities, one or more users of the first account being authorized to send commands to remotely control fluid handling devices at the first group of fluid-handling facilities the second account corresponds to a second group of fluid-handling facilities, the first group being different from the second group one more users of the second account being authorized to send commands to remotely control fluid handling devices at the second group of fluid-handling facilities the third account corresponds to the first group of fluid-handling facilities one more users of the third	US-PGPUB; USPAT	AND	ON	2019/07/15 08:46

		account being authorized to view reports of data from fluid handling devices at the first group of fluid-handling facilities the fourth account corresponds to the second group of fluid-handling facilities, one more users of the of the fourth account being authorized to view reports of data from fluid handling devices at the second group of fluid-handling facilities).clm.				
S700	0	S698 S699	US-PGPUB; USPAT	AND	ON	2019/07/15 08:46

7/ 15/ 2019 8:52:21 AM
C:\ Users\ ceverett\ Documents\ EAST\ Workspaces\ 15867077-RemoteControlOilGas.wsp

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/867,077	Phillips, Aaron
	Examiner	Art Unit
	CHRISTOPHER E EVERETT	2116

CPC - Searched*		
Symbol	Date	Examiner
(G05D7/0676 or H04L67/02 or G05B19/0428 or G06F3/0484 or E21B47/00 or G05B9/02 or G05B2219/24015 or G05B2219/25204 or G05B2219/31369 or G05B2219/23472)	02/25/2019	CEE

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

Search Notes		
Search Notes	Date	Examiner
Search of DAV using inventor search	02/25/2019	CEE
Search of EAST using inventor, assignee, and text searches	02/25/2019	CEE
Search of (G05D7/0676 or H04L67/02 or G05B19/0428 or G06F3/0484 or E21B47/00 or G05B9/02 or G05B2219/24015 or G05B2219/25204 or G05B2219/31369 or G05B2219/23472) using text searches	02/25/2019	CEE
Search of 700/1, 282, 275, 281, 42 using text searches	02/25/2019	CEE
Review of search history for parent application nos. 13/708557, 14/147,190, and 14/984,422	02/25/2019	CEE
Update of EAST and sub-class searches as described above	07/15/2019	CEE

/Christopher E. Everett/ Primary Examiner, Art Unit 2116	

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SitePro, Inc. v. WaterBridge Resources, LLC, et al
IPR2024-00741-U.S. Patent No. 10,488,871

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/867,077	Phillips, Aaron
	Examiner	Art Unit
	CHRISTOPHER E EVERETT	2116

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner
	Search of USPAT and USPGPUB using text searches	07/15/2019	CEE

/Christopher E. Everett/ Primary Examiner, Art Unit 2116	

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SitePro, Inc. v. WaterBridge Resources, LLC, et al
IPR2024-00741-U.S. Patent No. 10,488,871

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EXAMINER
EVERETT, CHRISTOPHER E

ART UNIT	PAPER NUMBER
2116	

DATE MAILED: 07/18/2019

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/867,077	01/10/2018	Aaron Phillips	034392-0456380	8753

TITLE OF INVENTION: REMOTE CONTROL OF FLUID-HANDLING DEVICES

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$500	$0.00	$0.00	$500	10/18/2019

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies.

If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.

If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".

For purposes of this notice, small entity fees are 1/2 the amount of undiscounted fees, and micro entity fees are 1/2 the amount of small entity fees.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Maintenance fees are due in utility patents issuing on applications filed on or after Dec. 12, 1980. It is patentee's responsibility to ensure timely payment of maintenance fees when due. More information is available at www.uspto.gov/PatentMaintenanceFees.

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SitePro, Inc. v. WaterBridge Resources, LLC, et al
IPR2024-00741-U.S. Patent No. 10,488,871

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via EFS-Web.

By mail, send to: Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

By fax, send to: (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

909 7590 07/18/2019
Pillsbury Winthrop Shaw Pittman, LLP
PO Box 10500
McLean, VA 22102

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being transmitted to the USPTO via EFS-Web or by facsimile to (571) 273-2885, on the date below.

(Typed or printed name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/867,077	01/10/2018	Aaron Phillips	034392-0456380	8753

TITLE OF INVENTION: REMOTE CONTROL OF FLUID-HANDLING DEVICES

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$500	$0.00	$0.00	$500	10/18/2019

EXAMINER	ART UNIT	CLASS-SUBCLASS
EVERETT, CHRISTOPHER E	2116	700-282000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

❑ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

❑ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-09 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list
(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,
(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 _____
2 _____
3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ❑ Individual ❑ Corporation or other private group entity ❑ Government

4a. Fees submitted: ❑ Issue Fee ❑ Publication Fee (if required) ❑ Advance Order - # of Copies _____

4b. Method of Payment: *(Please first reapply any previously paid fee shown above)*

❑ Electronic Payment via EFS-Web ❑ Enclosed check ❑ Non-electronic payment by credit card (Attach form PTO-2038)

❑ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. _____

5. **Change in Entity Status** (from status indicated above)

❑ Applicant certifying micro entity status. See 37 CFR 1.29

❑ Applicant asserting small entity status. See 37 CFR 1.27

❑ Applicant changing to regular undiscounted fee status.

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.
NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.
NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature _____ Date _____

Typed or printed name _____ Registration No. _____

The Integration Group of The Americas, Ex. 1004-Page 82
Ener-Tro, Inc. v. WaterBridge Resources, LLC, et al.
IPR2024-00741-U.S. Patent No. 10,488,871

UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/867,077	01/10/2018	Aaron Phillips	034392-0456380	8753

909 7590 07/18/2019

Pillsbury Winthrop Shaw Pittman, LLP
PO Box 10500
McLean, VA 22102

EXAMINER	
EVERETT, CHRISTOPHER E	
ART UNIT	PAPER NUMBER
2116	

DATE MAILED: 07/18/2019

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(Applications filed on or after May 29, 2000)

The Office has discontinued providing a Patent Term Adjustment (PTA) calculation with the Notice of Allowance.

Section 1(h)(2) of the AIA Technical Corrections Act amended 35 U.S.C. 154(b)(3)(B)(i) to eliminate the requirement that the Office provide a patent term adjustment determination with the notice of allowance. See Revisions to Patent Term Adjustment, 78 Fed. Reg. 19416, 19417 (Apr. 1, 2013). Therefore, the Office is no longer providing an initial patent term adjustment determination with the notice of allowance. The Office will continue to provide a patent term adjustment determination with the Issue Notification Letter that is mailed to applicant approximately three weeks prior to the issue date of the patent, and will include the patent term adjustment on the patent. Any request for reconsideration of the patent term adjustment determination (or reinstatement of patent term adjustment) should follow the process outlined in 37 CFR 1.705.

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

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SitePro, Inc. v. WaterBridge Resources, LLC, et al
IPR2024-00741-U.S. Patent No. 10,488,871

OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

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.

Notice of Allowability	Application No. 15/867,077	Applicant(s) Phillips, Aaron	
	Examiner CHRISTOPHER E EVERETT	Art Unit 2116	AIA (FITF) Status No

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☑ This communication is responsive to 7/1/2019.
   ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

3. ☑ The allowed claim(s) is/are 21-54 . As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see **http://www.uspto.gov/patents/init_events/pph/index.jsp** or send an inquiry to **PPHfeedback@uspto.gov.**

4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

   Certified copies:

   a) ☐ All b) ☐ Some *c) ☐ None of the:

   1. ☐ Certified copies of the priority documents have been received.
   2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
   3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____ .

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file areply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____ .

   Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____.
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material _____.
4. ☐ Interview Summary (PTO-413), Paper No./Mail Date. _____.
5. ☐ Examiner's Amendment/Comment
6. ☑ Examiner's Statement of Reasons for Allowance
7. ☐ Other _____.

/Christopher E. Everett/
Primary Examiner, Art Unit 2116

The Integration Group of The Americas, Ex. 1004-Page 85
SitePro, Inc. v. WaterBridge Resources, LLC, et al
IPR2024-00741-U.S. Patent No. 10,488,871

DETAILED ACTION

1. The Office Action is responsive to the communication filed on 7/1/2019.

2. Claims 21-54 are pending.

Notice of Pre-AIA or AIA Status

3. The present application is being examined under the pre-AIA first to invent provisions.

Allowable Subject Matter

4. Claims 21-54 are allowed.

5. The following is an examiner's statement of reasons for allowance:

Claims 21-37

Regarding claim 21, the prior art as described in the prosecution history describes:

A hosted, networked, remote industrial monitoring and control system for geographically distributed fluid-handling facilities, the system comprising:

- a computer-implemented datastore storing:
    - a plurality of accounts, each account corresponding to an entity operating one or more geographically distributed fluid-handling facilities, the accounts associating different fluid-handling facilities with different entities; and

- addresses by which industrial monitoring or control equipment at the facilities is accessible via network connections, the monitoring or control equipment including sensors configured to measure fluid handled at respective fluid-handling facilities and actuators configured to manipulate fluid flow at respective fluid-handling facilities, at least some of the fluid-handling facilities including both a plurality of the sensors and a plurality of the actuators;

- a computer-implemented facility-interface module or modules configured to obtain data from the sensors at the facilities and send commands to the actuators at the facilities via the network connections; and

However, regarding claim 21, the prior art as described in the prosecution history does not describe:

- a computer-implemented user-interface module or modules configured to send respective instructions to present respective control interfaces on respective user-computing devices logged in to respective ones of the accounts and to receive respective commands to control respective actuators from the respective user computing devices,
- wherein the system is configured to receive, with the user-interface module or modules, a user command to actuate an actuator entered via a presented control interface, identify an address in the datastore corresponding to a facility at which the actuator is located, and send instructions with the facility-interface module or modules to the facility to actuate the actuator, and

- wherein:
    - the plurality of accounts include a first account, a second account, a third account, and a fourth account;
    - the first account corresponds to a first group of fluid-handling facilities, one or more users of the first account being authorized to send commands to remotely control fluid handling devices at the first group of fluid-handling facilities;
    - the second account corresponds to a second group of fluid-handling facilities, the first group being different from the second group, one or more users of the second account being authorized to send commands to remotely control fluid handling devices at the second group of fluid-handling facilities;
    - the third account corresponds to the first group of fluid-handling facilities, one or more users of the third account being authorized to view reports of data from fluid handling devices at the first group of fluid-handling facilities; and
    - the fourth account corresponds to the second group of fluid-handling facilities, one or more users of the of the fourth account being authorized to view reports of data from fluid handling devices at the second group of fluid-handling facilities.

Dependent claims 22-37 depend from independent claim 21 and are allowable for the same reasons as described above.

Claims 38-54

Independent claim 38 is substantially similar to independent claim 21 and is allowable for the same reasons as outlined above with respect to claim 21. Dependent claims 39-54 depend from independent claim 38 and are allowable for the same reasons as described above.

6. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to CHRISTOPHER E EVERETT whose telephone number is (571)272-2851. The examiner can normally be reached on Monday-Friday 8:00 am to 5:00 pm (Eastern).

Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is

encouraged to use the USPTO Automated Interview Request (AIR) at http://www.uspto.gov/interviewpractice.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kenneth Lo can be reached on 571-272-9774. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Christopher E. Everett/
Primary Examiner, Art Unit 2116

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/867,077	Phillips, Aaron
	Examiner	**Art Unit**
	CHRISTOPHER E EVERETT	2116

CPC								
Symbol							**Type**	**Version**
G05D	/	7	/	0676			F	2013-01-01
E21B	/	47	/	00			I	2013-01-01
G05B	/	9	/	02			I	2013-01-01
G05B	/	19	/	0428			I	2013-01-01
G06F	/	3	/	0484			I	2013-01-01
H04L	/	67	/	02			I	2013-01-01
G05B	/	2219	/	25204			A	2013-01-01
G05B	/	2219	/	31369			A	2013-01-01
G05B	/	2219	/	23472			A	2013-01-01
G05B	/	2219	/	24015			A	2013-01-01

CPC Combination Sets								
Symbol					**Type**	**Set**	**Ranking**	**Version**
	/		/					

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	34	
/Christopher E. Everett/ Primary Examiner, Art Unit 2116	15 July 2019	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1

U.S. Patent and Trademark Office — Part of Paper No.: 20190715

The Integration Group of The Americas, Ex. 1004-Page 91
SitePro, Inc. v. WaterBridge Resources, LLC, et al
IPR2024-00741-U.S. Patent No. 10,488,871

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/867,077	Phillips, Aaron
	Examiner	**Art Unit**
	CHRISTOPHER E EVERETT	2116

INTERNATIONAL CLASSIFICATION					
CLAIMED					
G05D7/06	/	7	/	06	

NON-CLAIMED				
	/		/	

US ORIGINAL CLASSIFICATION	
CLASS	**SUBCLASS**

CROSS REFERENCES(S)						
CLASS	**SUBCLASS (ONE SUBCLASS PER BLOCK)**					

NONE		**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	34	
/Christopher E. Everett/ Primary Examiner, Art Unit 2116	15 July 2019	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1

U.S. Patent and Trademark Office

Part of Paper No.: 20190715

The Integration Group of The Americas, Ex. 1004-Page 92
SitePro, Inc. v. WaterBridge Resources, LLC, et al
IPR2024-00741-U.S. Patent No. 10,488,871

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/867,077	Phillips, Aaron
	Examiner	**Art Unit**
	CHRISTOPHER E EVERETT	2116

☑ Claims renumbered in the same order as presented by applicant ☐ CPA ☑ T.D. ☐ R.1.47

CLAIMS

Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original

NONE (Assistant Examiner)	(Date)	**Total Claims Allowed:** 34	
/Christopher E. Everett/ Primary Examiner, Art Unit 2116 (Primary Examiner)	15 July 2019 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 1

U.S. Patent and Trademark Office

Part of Paper No.: 20190715

The Integration Group of The Americas, Ex. 1004-Page 93
SitePro, Inc. v. WaterBridge Resources, LLC, et al
IPR2024-00741-U.S. Patent No. 10,488,871

Application Number	Application/Control No.	Applicant(s)/Patent under Reexamination	
* 15/867,077 *	15/867,077	Phillips, Aaron	
	Examiner	**Art Unit**	
	EVERETT, CHRISTOPHER E	2116	

Document Code - DISQ	**Internal Document - DO NOT MAIL**

TERMINAL DISCLAIMER	☑ APPROVED	☐ DISAPPROVED
Date Filed: 01 July 2019	**This patent is subject to a Terminal Disclaimer**	

Approved/Disapproved by:

/PAMELA A YOUNG/

Technology Center: PLRC

Telephone:

The Integration Group of The Americas, Ex. 1004-Page 94
SitePro, Inc. v. WaterBridge Resources, LLC, et al
IPR2024-00741-U.S. Patent No. 10,488,871

UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
15/867,077	01/10/2018	Aaron Phillips	034392-0456380

CONFIRMATION NO. 8753

909
Pillsbury Winthrop Shaw Pittman, LLP
PO Box 10500
McLean, VA 22102

POA ACCEPTANCE LETTER

OC00000109347620

Date Mailed: 07/03/2019

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 07/01/2019.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at **(571) 272-4000** or **(571) 272-4200** or **1-888-786-0101**.

/ttran/

The Integration Group of The Americas, Ex. 1004-Page 95
SitePro, Inc. v. WaterBridge Resources, LLC, et al
IPR2024-00741-U.S. Patent No. 10,488,871

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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Alexandria, Virginia 22313-1450
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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
15/867,077	01/10/2018	2116	1430	034392-0456380	34	2

CONFIRMATION NO. 8753

CORRECTED FILING RECEIPT

909
Pillsbury Winthrop Shaw Pittman, LLP
PO Box 10500
McLean, VA 22102

OC000000109347590

Date Mailed: 07/03/2019

Receipt is acknowledged of this non-provisional utility patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF FIRST INVENTOR, 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 corrected Filing Receipt, including a properly marked-up ADS showing the changes with strike-through for deletions and underlining for additions. If you received a "Notice to File Missing Parts" or other Notice requiring a response for this application, please submit any request for correction 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 provided that the request is grantable.

Inventor(s)

Aaron Phillips, Lubbock, TX;

Applicant(s)

SitePro, Inc., Lubbock, TX;

Power of Attorney: The patent practitioners associated with Customer Number 00909

Domestic Priority data as claimed by applicant

This application is a CON of 14/984,422 12/30/2015 PAT 9898014
which is a CON of 14/147,190 01/03/2014 PAT 9342078
which is a CON of 13/708,557 12/07/2012 PAT 8649909

Foreign Applications for which priority is claimed (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see http://www.uspto.gov for more information.) - None.
Foreign application information must be provided in an Application Data Sheet in order to constitute a claim to foreign priority. See 37 CFR 1.55 and 1.76.

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.

The Integration Group of The Americas, Ex. 1004-Page 96
SitePro, Inc. v. WaterBridge Resources, LLC, et al
IPR2024-00741-U.S. Patent No. 10,488,871

If Required, Foreign Filing License Granted: 01/31/2018

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 15/867,077**

Projected Publication Date: Not Applicable

Non-Publication Request: No

Early Publication Request: No
**** SMALL ENTITY ****
Title

REMOTE CONTROL OF FLUID-HANDLING DEVICES

Preliminary Class

700

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).

The Integration Group of The Americas, Ex. 1004-Page 97
SitePro, Inc. v. WaterBridge Resources, LLC, et al
IPR2024-00741-U.S. Patent No. 10,488,871

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 AssetsControl, 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.

The Integration Group of The Americas, Ex. 1004-Page 98
SitePro, Inc. v. WaterBridge Resources, LLC, et al
IPR2024-00741-U.S. Patent No. 10,488,871

PTO/SB/06 (09-11)
Approved for use through 1/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 15/867,077	Filing Date 01/10/2018	☐ To be Mailed

ENTITY: ☐ LARGE ☑ SMALL ☐ MICRO

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA		RATE ($)	FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A		N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A		N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A		N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*		x $40 =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*		x $210 =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).				
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))					
* If the difference in column 1 is less than zero, enter "0" in column 2.				TOTAL	

APPLICATION AS AMENDED - PART II

		(Column 1)		(Column 2)	(Column 3)			
AMENDMENT	07/01/2019	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	* 34	Minus	** 34	= 0		x $50 =	0
	Independent (37 CFR 1.16(h))	* 2	Minus	*** 3	= 0		x $230 =	0
	☐ Application Size Fee (37 CFR 1.16(s))							
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
							TOTAL ADD'L FEE	0

		(Column 1)		(Column 2)	(Column 3)			
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	*	Minus	**	=		x $0 =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=		x $0 =	
	☐ Application Size Fee (37 CFR 1.16(s))							
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
							TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.	LIE
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".	/VENESSA JONES/
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".	
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.	

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Electronic Patent Application Fee Transmittal

Application Number:	15867077
Filing Date:	10-Jan-2018
Title of Invention:	REMOTE CONTROL OF FLUID-HANDLING DEVICES
First Named Inventor/Applicant Name:	Aaron Phillips
Filer:	Joshua L. Tucker/Rosemary Mason
Attorney Docket Number:	034392-0456380

Filed as Small Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension - 1 month with $0 paid	2251	1	100	100
Miscellaneous:				
		Total in USD ($)		**100**

Electronic Patent Application Fee Transmittal

Application Number:	15867077
Filing Date:	10-Jan-2018
Title of Invention:	REMOTE CONTROL OF FLUID-HANDLING DEVICES
First Named Inventor/Applicant Name:	Aaron Phillips
Filer:	Joshua L. Tucker/Rosemary Mason
Attorney Docket Number:	034392-0456380

Filed as Small Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
STATUTORY OR TERMINAL DISCLAIMER	2814	1	160	160
		Total in USD ($)		**160**

REMARKS

In the office action, the Examiner rejected claims 21-54 on the ground of non-statutory double patenting.

Double patenting

On pages 3-13 of the Office Action, the Examiner rejects claims 21-54 as allegedly being unpatentable over U.S. Pat. No. 9,898,014 on the grounds of non-statutory double patenting. To expedite prosecution and without conceding the merits of the rejection, a terminal disclaimer is filed herewith for the 9,898,014 Patent. In view of this amendment, withdrawal of this rejection is respectfully requested.

The claims as presented herein are in condition for allowance

In view of the filing of the terminal disclaimer, which obviates the sole rejection to the claims, Applicants respectfully submit that claim 21-54 are in condition for allowance.

Reservation of Arguments

Applicants reserve the right to identify other grounds for overcoming the present rejections and the cited art, and Applicants reiterate that the remarks above are made without prejudice, including to rights available under the doctrine of equivalents.

The Integration Group of The Americas, Ex. 1004-Page 104
SitePro, Inc. v. WaterBridge Resources, LLC, et al
IPR2024-00741-U.S. Patent No. 10,488,871

Conclusion

Applicants respectfully submit that all pending claims should be in condition for allowance. However, if the Examiner believes certain amendments are necessary to clarify the present claims or if the Examiner wishes to resolve any other issues by way of a telephone conference, the Examiner is kindly invited to contact the undersigned attorney at the telephone number indicated below.

Respectfully submitted,

Date: 01 July 2019

/Joshua Tucker/

Joshua Tucker
Registration No. 63809
Pillsbury Winthrop Shaw Pittman LLP
P.O. Box 10500
McLean, VA 22102
Phone 512-580-9628

The Integration Group of The Americas, Ex. 1004-Page 105
SitePro, Inc. v. WaterBridge Resources, LLC, et al
IPR2024-00741-U.S. Patent No. 10,488,871

Doc Code: R46C.REQ
Document Description: Request under 37 CFR 1.46(c) to correct, update or change the applicant.

PTO/AIA/41 (04-15)
Approved for use through 11/30/2020. OMB 0651-0031
U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE
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REQUEST TO CORRECT OR UPDATE THE NAME OF THE APPLICANT UNDER 37 CFR 1.46(c)(1), OR CHANGE THE APPLICANT UNDER 37 CFR 1.46(c)(2)

(FOR USE ONLY IN APPLICATIONS FILED ON OR AFTER SEPTEMBER 16, 2012)

Application Number	15/867,077
Filing Date	January 10, 2018
First Named Inventor	Aaron Phillips
Art Unit	2116
Examiner Name	Everett, Christopher E.
Practitioner Docket Number	034392-0456380

To: Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Applicant hereby **requests that the name of the applicant be corrected or updated under 37 CFR 1.46(c)(1), or that the applicant be changed under 37 CFR 1.46(c)(2),** in the above-identified application. **Requests under 37 CFR 1.46(c)(1) or (c)(2) cannot be submitted after payment of the issue fee or if the application has been patented.**

Please check the applicable box(es) below.

☒ 1. This request is to **correct or update the name of the applicant** (**under 37 CFR 1.46(c)(1)**) and includes:

☒ An application data sheet (ADS) in accordance with 37 CFR 1.76(c) with the corrected or updated information shown with markings (*e.g.*, underlining for insertions, strikethrough for deletions). A Corrected Web-based ADS may be used.

Note: Requests under 37 CFR 1.46(c)(1) may be filed to correct typographical errors in the name of the § 1.46 applicant, or for updating the name of the § 1.46 applicant (*i.e.*, where there is no change in the applicant itself but just in the applicant's name). See the Manual of Patent Examining Procedure (MPEP) section 605.01.

☐ 2. This request is to **change the applicant** (**under 37 CFR 1.46(c)(2)**) and includes:

☐ An application data sheet (ADS) in accordance with 37 CFR 1.76(c) that identifies the changes with proper markings (underlining for insertions and strikethrough for deletions). A Corrected Web-based ADS may be used.

☐ A Statement Under 37 CFR 3.73(c) (Form PTO/AIA/96 or equivalent). See MPEP 325.

I am the

☐ applicant* ☐ attorney or agent of record Registration number _____ ☒ attorney or agent acting under 37 CFR 1.34 Registration number 63809

Signature /Joshua Tucker/

Typed or printed name Joshua Tucker

Date 2019-07-01

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. *Juristic entities must be represented by a patent practitioner (See 37 CFR 1.31, applicable to any paper filed on or after September 16, 2012 that is presented on behalf of a juristic entity, regardless of application filing date). Submit multiple forms if more than one signature is required, see below**.

☒ ** Total of 1 forms are submitted.

This collection of information is required by 37 CFR 1.36. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

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.

PTO/AIA/96 (08-12)
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STATEMENT UNDER 37 CFR 3.73(c)

Applicant/Patent Owner: SITEPRO, INC.

Application No./Patent No.: 15/867,077 Filed/Issue Date: January 10, 2018

Titled: REMOTE CONTROL OF FLUID-HANDLING DEVICES

SITEPRO, INC., a Corporation

(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that, for the patent application/patent identified above, it is (choose **one** of options 1, 2, 3 or 4 below):

1. ☑ The assignee of the entire right, title, and interest.

2. ☐ An assignee of less than the entire right, title, and interest (check applicable box):

   ☐ The extent (by percentage) of its ownership interest is _____%. Additional Statement(s) by the owners holding the balance of the interest must be submitted to account for 100% of the ownership interest.

   ☐ There are unspecified percentages of ownership. The other parties, including inventors, who together own the entire right, title and interest are:

   Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

3. ☐ The assignee of an undivided interest in the entirety (a complete assignment from one of the joint inventors was made). The other parties, including inventors, who together own the entire right, title, and interest are:

   Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

4. ☐ The recipient, via a court proceeding or the like (*e.g.*, bankruptcy, probate), of an undivided interest in the entirety (a complete transfer of ownership interest was made). The certified document(s) showing the transfer is attached.

The interest identified in option 1, 2 or 3 above (not option 4) is evidenced by either (choose **one** of options A or B below):

A. ☐ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

B. ☑ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

1. From: PHILLIPS, AARON To: AMPLISINE LABS, LLC

   The document was recorded in the United States Patent and Trademark Office at
   Reel 029437, Frame 0877, or for which a copy thereof is attached.

2. From: AMPLISINE LABS, LLC To: SITEPRO, LLC

   The document was recorded in the United States Patent and Trademark Office at
   Reel 047648, Frame 0595, or for which a copy thereof is attached.

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

PTO/AIA/96 (08-12)
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STATEMENT UNDER 37 CFR 3.73(c)

3. From: SITEPRO, LLC To: SITEPRO, INC.

The document was recorded in the United States Patent and Trademark Office at
Reel 048288, Frame 0361, or for which a copy thereof is attached.

4. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

5. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

6. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet(s).

☐ As required by 37 CFR 3.73(c)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

/Joshua Tucker/	2019-07-01
Signature	Date
Joshua Tucker	63809
Printed or Typed Name	Title or Registration Number

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.

PTO/AIA/82 (07-17)
Approved for use through 03/31/2021. OMB 0651-0035
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POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO

I hereby revoke all previous powers of attorney given in the application identified in the attached statement under 37 CFR 3.73(c).

I hereby appoint:

[X] Practitioners associated with Customer Number: 00909

OR

[ ] Practitioner(s) named below (if more than ten patent practitioners are to be named, then a customer number must be used):

Name	Registration Number	Name	Registration Number

As attorney(s) or agent(s) to represent the undersigned before the United States Patent and Trademark Office (USPTO) in connection with any and all patent applications assigned only to the undersigned according to the USPTO assignment records or assignment documents attached to this form in accordance with 37 CFR 3.73(c).

Please change the correspondence address for the application identified in the attached statement under 37 CFR 3.73(c) to:

[X] The address associated with Customer Number: 00909

OR

[ ]

Firm or individual name		
Address		
City	State	Zip
Country		
Telephone	Email	

Assignee name and address: SITEPRO, INC.
3502 HIGHWAY 87
LUBBOCK, TEXAS 79423

A copy of this form, together with a statement under 37 CFR 3.73(c) (Form PTO/AIA/96 or equivalent) is required to be filed in each application in which this form is used. The statement under 37 CFR 3.73(c) may be completed by one of the practitioners appointed in this form, and must identify the application in which this Power of Attorney is to be filed.

SIGNATURE of Assignee of Record

The individual whose signature and title is supplied below is authorized to act on behalf of the assignee.

Signature DLB	Date 5-6-19
Name David Bateman	Telephone 806 687-5226
Title Co-CEO & Board Member	

This collection of information is required by 37 CFR 1.31, 1.32, and 1.33. The information is required to obtain or retain a benefit by the public, which is to update (and by the USPTO to process) the file of a patent or reexamination proceeding. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 18 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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Electronic Acknowledgement Receipt

EFS ID:	36469729
Application Number:	15867077
International Application Number:	
Confirmation Number:	8753
Title of Invention:	REMOTE CONTROL OF FLUID-HANDLING DEVICES
First Named Inventor/Applicant Name:	Aaron Phillips
Customer Number:	909
Filer:	Joshua L. Tucker
Filer Authorized By:	
Attorney Docket Number:	034392-0456380
Receipt Date:	01-JUL-2019
Filing Date:	10-JAN-2018
Time Stamp:	20:59:31
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	$100
RAM confirmation Number	070219INTEFSW00007236033975
Deposit Account	
Authorized User	

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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		034392_0456380_Response_1Jul19.pdf	145149 e1d5f0d829518dbce6962cf734da1b0e6829b97a	yes	13

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Amendment/Req. Reconsideration-After Non-Final Reject	1	1
	Claims	2	11
	Applicant Arguments/Remarks Made in an Amendment	12	13

Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	30701 ac7b4b53edce4c7f8f4e0e812c53ba50e9a3040b	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	175850		

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New Applications Under 35 U.S.C. 111

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.

National Stage of an International Application under 35 U.S.C. 371

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.

New International Application Filed with the USPTO as a Receiving Office

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.

Electronic Acknowledgement Receipt

EFS ID:	36470055
Application Number:	15867077
International Application Number:	
Confirmation Number:	8753
Title of Invention:	REMOTE CONTROL OF FLUID-HANDLING DEVICES
First Named Inventor/Applicant Name:	Aaron Phillips
Customer Number:	909
Filer:	Joshua L. Tucker
Filer Authorized By:	
Attorney Docket Number:	034392-0456380
Receipt Date:	01-JUL-2019
Filing Date:	10-JAN-2018
Time Stamp:	21:03:51
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		034392_0456380_Request_for_Corrected_Filing_Receipt_filed_01JUL2019.pdf	269953 bd471ae18beabedde331a4d2ed24e4b183dcbdf9	yes	5

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Request for Corrected Filing Receipt	1	2
	Request for Corrected Filing Receipt	3	5

Warnings:					
Information:					
2	Req to correct/update/change appl name until pay issue fee	034392_0456380_Request_to_Update_Applicant_Name_filed_01JUL2019.pdf	196258 f50a933a57bb87fd7b4f5ec12f883a67a489dff2	no	2
Warnings:					
Information:					
3	Application Data Sheet	034392_0456380_Corrected_Application_Data_Sheet_filed_01JUL2019.pdf	269290 193cc50f42a39487316ec7cc40c0e7b65207021e	no	8
Warnings:					
Information:					
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4	Power of Attorney	034392_0456380_Power_of_Attorney_filed_01JUL2019.pdf	400583 5d2d8d0f22ba413e5650b9af739c3f29bd09a991	no	1
Warnings:					
Information:					
5	Assignee showing of ownership per 37 CFR 3.73	034392-0456380_Statement_Under_37_CFR_3-73_filed_01JUL2019.pdf	85336 84ee64bc98c2ba9adb65cbb444b70132c97e19fd	no	3
Warnings:					
Information:					
		Total Files Size (in bytes):	1221420		

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Electronic Acknowledgement Receipt

EFS ID:	36469795
Application Number:	15867077
International Application Number:	
Confirmation Number:	8753
Title of Invention:	REMOTE CONTROL OF FLUID-HANDLING DEVICES
First Named Inventor/Applicant Name:	Aaron Phillips
Customer Number:	909
Filer:	Joshua L. Tucker
Filer Authorized By:	
Attorney Docket Number:	034392-0456380
Receipt Date:	01-JUL-2019
Filing Date:	10-JAN-2018
Time Stamp:	21:01:40
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	$160
RAM confirmation Number	070219INTEFSW00007242033975
Deposit Account	
Authorized User	

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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Terminal Disclaimer Filed	034392_0456380_Terminal_Disclaimer_9898014.pdf	151186 7e2157804e26bd49bab447eeedbf3e7b9c560240	no	2
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	30516 6e6c28303875bac9f4f1d6db2b46c88ec9ebcaa5	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	181702		

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New Applications Under 35 U.S.C. 111

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PTO/AIA/26 (04-14)
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TERMINAL DISCLAIMER TO OBVIATE A DOUBLE PATENTING REJECTION OVER A "PRIOR" PATENT	Docket Number (Optional) 034392-0456380

In re Application of: Aaron Phillips

Application No.: 15/867,077

Filed: 10 January 2018

For: REMOTE CONTROL OF FLUID-HANDLING DEVICES

The applicant, SitePro, Inc., owner of 100 percent interest in the instant application hereby disclaims, except as provided below, the terminal part of the statutory term of any patent granted on the instant application which would extend beyond the expiration date of the full statutory term of **prior patent** No. 9,898,014 as the term of said **prior patent** is presently shortened by any terminal disclaimer. The applicant hereby agrees that any patent so granted on the instant application shall be enforceable only for and during such period that it and the **prior patent** are commonly owned. This agreement runs with any patent granted on the instant application and is binding upon the grantee, its successors or assigns.

In making the above disclaimer, the applicant does not disclaim the terminal part of the term of any patent granted on the instant application that would extend to the expiration date of the full statutory term of the **prior patent**, "as the term of said **prior patent** is presently shortened by any terminal disclaimer," in the event that said **prior patent** later:

expires for failure to pay a maintenance fee;
is held unenforceable;
is found invalid by a court of competent jurisdiction;
is statutorily disclaimed in whole or terminally disclaimed under 37 CFR 1.321;
has all claims canceled by a reexamination certificate;
is reissued; or
is in any manner terminated prior to the expiration of its full statutory term as presently shortened by any terminal disclaimer.

Check either box 1 or 2 below, if appropriate.

1. ☐ The undersigned is the applicant. If the applicant is an assignee, the undersigned is authorized to act on behalf of the assignee.

I hereby acknowledge that any willful false statements made are punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

2. ☑ The undersigned is an attorney or agent of record. Reg. No. 63809

/Joshua Tucker/ — Signature
01 July 2019 — Date

Joshua Tucker — Typed or printed name

Title
Telephone Number

☑ Terminal disclaimer fee under 37 CFR 1.20(d) included.

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This collection of information is required by 37 CFR 1.321. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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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 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.

AMENDMENTS TO THE CLAIMS

The following is a complete listing of the claims, which replaces all previous versions and listings of the claims.

1-20. (canceled)

21. (previously presented) A hosted, networked, remote industrial monitoring and control system for geographically distributed fluid-handling facilities, the system comprising:

a computer-implemented datastore storing:

a plurality of accounts, each account corresponding to an entity operating one or more geographically distributed fluid-handling facilities, the accounts associating different fluid-handling facilities with different entities; and

addresses by which industrial monitoring or control equipment at the facilities is accessible via network connections, the monitoring or control equipment including sensors configured to measure fluid handled at respective fluid-handling facilities and actuators configured to manipulate fluid flow at respective fluid-handling facilities, at least some of the fluid-handling facilities including both a plurality of the sensors and a plurality of the actuators;

a computer-implemented facility-interface module or modules configured to obtain data from the sensors at the facilities and send commands to the actuators at the facilities via the network connections; and

a computer-implemented user-interface module or modules configured to send respective instructions to present respective control interfaces on respective user-computing devices logged in to respective ones of the accounts and to receive respective commands to control respective actuators from the respective user computing devices,

wherein the system is configured to receive, with the user-interface module or modules, a user command to actuate an actuator entered via a presented control interface, identify an address in the datastore corresponding to a facility at which the actuator is located, and send instructions with the facility-interface module or modules to the facility

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SitePro, Inc. v. WaterBridge Resources, LLC, et al
IPR2024-00741-U.S. Patent No. 10,488,871

to actuate the actuator, and

wherein:

the plurality of accounts include a first account, a second account, a third account, and a fourth account;

the first account corresponds to a first group of fluid-handling facilities, one or more users of the first account being authorized to send commands to remotely control fluid handling devices at the first group of fluid-handling facilities;

the second account corresponds to a second group of fluid-handling facilities, the first group being different from the second group, one or more users of the second account being authorized to send commands to remotely control fluid handling devices at the second group of fluid-handling facilities;

the third account corresponds to the first group of fluid-handling facilities, one or more users of the third account being authorized to view reports of data from fluid handling devices at the first group of fluid-handling facilities; and

the fourth account corresponds to the second group of fluid-handling facilities, one or more users of the of the fourth account being authorized to view reports of data from fluid handling devices at the second group of fluid-handling facilities.

22. (previously presented) The system of claim 21, wherein:

at least some of the fluid-handling facilities are oil-or-gas related fluid-handling facilities and include petro-water disposal facilities or re-injection facilities; and

the sensors include a level sensor of an oil/water separation tank at one of the facilities configured to indicate a level at which oil meets water, and wherein the datastore includes a record associating the tank with the facility

23. (previously presented) The system of claim 21, wherein:

the sensors include a tank level sensor of a tank at one of the facilities;

the datastore includes a record associating the tank with the facility, data from the tank being unavailable to users without an account associated with the tank; and

the accounts designate a plurality of fluid-handling facilities to which a given user is authorized to send user commands to actuate actuators, wherein at least some users of

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SitePro, Inc. v. WaterBridge Resources, LLC, et al
IPR2024-00741-U.S. Patent No. 10,488,871

the third account are not authorized by the third account to issue commands to fluid handling devices at the first group of fluid-handling facilities.

24. (previously presented) The system of claim 21, wherein the sensors include:

a level sensor of a tank at a given one of the facilities and wherein the datastore includes a record associating the tank with the given facility; and

a leak detector at the given facility, and wherein the datastore includes a record associating the leak detector with the given facility.

25. (previously presented) The system of claim 21, wherein:

the user-interface module or modules comprises a web server; and

the facility-interface module or modules comprises a site server distinct from the web server;

the web server is configured to communicate with user devices via a first network port of a computing device executing the web server;

the site server is configured to communicate with facilities via a second network port of the computing device, the second network port being different from the first network port; and

the data store is configured to store subscription information associated with at least some of the accounts.

26. (previously presented) The system of claim 21, wherein:

the facility-interface module or modules comprise means for interfacing with a plurality of site controllers associated with the facilities; and

the user-interface module or modules comprise means for sending instructions to present a control interface on the user devices.

27. (previously presented) The system of claim 21, wherein the datastore stores accounts for more than one thousand facilities, and the user-interface module or modules are configured interface with more than one thousand user devices.

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SitePro, Inc. v. WaterBridge Resources, LLC, et al
IPR2024-00741-U.S. Patent No. 10,488,871

28. (previously presented) The system of claim 21, wherein the facility-interface module or modules are configured to send pull requests to facilities to retrieve data buffered at the facilities.

29. (previously presented) The system of claim 21, wherein the system is configured to instantiate at least three of the following as distinct threads from one another:

a thread configured to sends and receive data requests;

a thread configured to synchronize other threads with updated information;

a thread configured to set a target state of actuators;

a thread configured to obtain updated sensor readings;

a thread configured to process user interactions; and

a thread that eliminates other threads upon detecting a problem with the eliminated threads.

30. (previously presented) The system of claim 21, wherein the system is configured to instantiate each and every of the following as distinct threads from one another:

a thread configured to sends or receive data request;

a thread configured to synchronize other threads with updated information;

a thread configured to set a target state of actuators;

a thread configured to obtain updated sensor readings;

a thread configured to process user interactions; and

a thread that eliminates other threads upon detecting a problem with the eliminated threads.

31. (previously presented) The system of claim 21, comprising:

a controller at one of the facilities communicatively coupled to an actuator or a sensor.

32. (previously presented) The system of claim 31, wherein the controller is communicatively coupled to the actuator and the sensor via a private local area network,

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SitePro, Inc. v. WaterBridge Resources, LLC, et al
IPR2024-00741-U.S. Patent No. 10,488,871

the system comprising a respective fluid-handling facility having the controller, the system further comprising the actuator, the sensor, and the private local area network, and wherein controller is communicatively coupled to the actuator or sensor via a frame-based carrier-sense multiple access protocol with collision detection.

33. (previously presented) The system of claim 31, wherein controller is configured to push buffered data to the facility-interface module or modules.

34. (previously presented) The system of claim 31, comprising:

means for ensuring at least some data is not lost if network access ceases intermittently.

35. (previously presented) The system of claim 31, comprising:

means for translating a command for an actuator from an input format to a format configured to effectuate changes in the actuator.

36. (previously presented) The system of claim 31, comprising:

means for executing control routines implicated by translated commands on an individual actuator or sensor.

37. (previously presented) The system of claim 31, comprising:

means for transmitting data to the facility-interface module or modules.

38. (previously presented) A method, comprising:

storing, with one or more processors, records comprising:

a plurality of accounts, each account corresponding to an entity operating one or more geographically distributed fluid-handling facilities, the accounts associating different fluid-handling facilities with different entities; and

addresses by which industrial monitoring or control equipment at the facilities is accessible via network connections, the monitoring or control equipment

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including sensors configured to measure fluid handled at respective fluid-handling facilities and actuators configured to manipulate fluid flow at respective fluid-handling facilities, at least some of the fluid-handling facilities including both a plurality of the sensors and a plurality of the actuators;

obtaining, with one or more processors implementing a facility-interface module or modules, data from the sensors at the facilities and send commands to the actuators at the facilities via the network connections; and

sending, with one or more processors implementing a user-interface module or modules, respective instructions to present respective control interfaces on respective user-computing devices logged in to respective ones of the accounts and to receive respective commands to control respective actuators from the respective user computing devices;

receiving, with the user-interface module or modules, a user command to actuate an actuator entered via a presented control interface;

identifying, with one or more processors, in response to the user command, an address in the datastore corresponding to a facility at which the actuator is located; and

sending, with one or more processors, instructions with the facility-interface module or modules to the facility to actuate the actuator, wherein:

the plurality of accounts include a first account, a second account, a third account, and a fourth account;

the first account corresponds to a first group of fluid-handling facilities, one or more users of the first account being authorized to send commands to remotely control fluid handling devices at the first group of fluid-handling facilities;

the second account corresponds to a second group of fluid-handling facilities, the first group being different from the second group, one or more users of the second account being authorized to send commands to remotely control fluid handling devices at the second group of fluid-handling facilities;

the third account corresponds to the first group of fluid-handling facilities, one or more users of the of the third account being authorized to view reports of data from fluid handling devices at the first group of fluid-handling facilities; and

the fourth account corresponds to the second group of fluid-handling

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facilities, one or more users of the of the fourth account being authorized to view reports of data from fluid handling devices at the second group of fluid-handling facilities.

39. (previously presented) The method of claim 38, wherein:

at least some of the fluid-handling facilities are oil-or-gas related fluid-handling facilities and include petro-water disposal facilities or re-injection facilities; and

the sensors include a level sensor of an oil/water separation tank at one of the facilities configured to indicate a level at which oil meets water, and wherein the datastore includes a record associating the tank with the facility

40. (previously presented) The method of claim 38, wherein:

the sensors include a tank level sensor of a tank at one of the facilities;

the datastore includes a record associating the tank with the facility, data from the tank being unavailable to users without an account associated with the tank; and

the accounts designate a plurality of fluid-handling facilities to which a given user is authorized to send user commands to actuate actuators.

41. (previously presented) The method of claim 38, wherein the sensors include:

a level sensor of a tank at a given one of the facilities and wherein the datastore includes a record associating the tank with the given facility; and

a leak detector at the given facility, and wherein the datastore includes a record associating the leak detector with the given facility.

42. (previously presented) The method of claim 38, wherein:

the user-interface module or modules comprises a web server; and

the facility-interface module or modules comprises a site server distinct from the web server;

the web server is configured to communicate with user devices via a first network port of a computing device executing the web server;

the site server is configured to communicate with facilities via a second network

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port of the computing device, the second network port being different from the first network port; and

the data store is configured to store subscription information associated with at least some of the accounts.

43. (previously presented) The method of claim 38, comprising:

steps for interfacing with a plurality of site controllers associated with the facilities; and

steps for sending instructions to present a control interface on the user devices.

44. (previously presented) The method of claim 38, wherein the datastore stores accounts for more than one thousand facilities, and the user-interface module or modules are configured interface with more than one thousand user devices.

45. (previously presented) The method of claim 38, wherein the facility-interface module or modules are configured to send pull requests to facilities to retrieve data buffered at the facilities.

46. (previously presented) The method of claim 38, comprising instantiating at least three of the following as distinct threads from one another:

a thread configured to sends and receive data requests;

a thread configured to synchronize other threads with updated information;

a thread configured to set a target state of actuators;

a thread configured to obtain updated sensor readings;

a thread configured to process user interactions; and

a thread that eliminates other threads upon detecting a problem with the eliminated threads.

47. (previously presented) The method of claim 38, comprising instantiating each and every of the following as distinct threads from one another:

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a thread configured to sends or receive data request;

a thread configured to synchronize other threads with updated information;

a thread configured to set a target state of actuators;

a thread configured to obtain updated sensor readings;

a thread configured to process user interactions; and

a thread that eliminates other threads upon detecting a problem with the eliminated threads.

48. (previously presented) The method of claim 38, comprising:

communicating, with a controller at one of the facilities, with an actuator or a sensor to actuate the actuator or read from the sensor.

49. (previously presented) The method of claim 48, wherein the controller is communicatively coupled to the actuator and the sensor via a private local area network, and wherein controller is communicatively coupled to the actuator or sensor via a frame-based carrier-sense multiple access protocol with collision detection.

50. (previously presented) The method of claim 48, comprising buffering data from sensors with the controller and pushing, with the controller, buffered data to the facility-interface module or modules.

51. (previously presented) The method of claim 48, comprising:

steps for ensuring at least some data is not lost if network access ceases intermittently.

52. (previously presented) The method of claim 48, comprising:

steps for translating a command for an actuator from an input format to a format configured to effectuate changes in the actuator;

steps for executing control routines implicated by translated commands on an

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individual actuator or sensor; and

steps for transmitting data to the facility-interface module or modules.

53. (previously presented) The method of claim 48, comprising:

steps for loosening a stuck valve.

54. (previously presented) The method of claim 48, comprising:

steps for mitigating shocks to up-stream or down-stream fluid-handling devices.

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UNITED STATES PATENT AND TRADEMARK OFFICE

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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
15/867,077	01/10/2018	2652	1430	034392-0456380	34	2

CONFIRMATION NO. 8753

909
Pillsbury Winthrop Shaw Pittman, LLP
PO Box 10500
McLean, VA 22102

FILING RECEIPT

OC000000097115980

Date Mailed: 02/02/2018

Receipt is acknowledged of this non-provisional patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. 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)

Aaron Phillips, Lubbock, TX;

Applicant(s)

~~AmpliSine Labs, LLC;~~ SitePro, Inc. Lubbock, TX;

Power of Attorney: None

Domestic Priority data as claimed by applicant

This application is a CON of 14/984,422 12/30/2015 PAT 9898014
which is a CON of 14/147,190 01/03/2014 PAT 9342078
which is a CON of 13/708,557 12/07/2012 PAT 8649909

Foreign Applications for which priority is claimed (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see http://www.uspto.gov for more information.) - None.
Foreign application information must be provided in an Application Data Sheet in order to constitute a claim to foreign priority. See 37 CFR 1.55 and 1.76.

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: 01/31/2018

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The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 15/867,077**

Projected Publication Date: 05/10/2018

Non-Publication Request: No

Early Publication Request: No
**** SMALL ENTITY ****
Title

REMOTE CONTROL OF FLUID-HANDLING DEVICES

Preliminary Class

379

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).

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LICENSE FOR FOREIGN FILING UNDER

Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

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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.

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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).

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Aaron Phillips	§		
	§	Group Art Unit:	2116
	§	Confirmation No.:	8753
Serial No.: 15/867,077	§	Examiner:	Everett, Christopher E.
Filed: 10 January 2018	§		
	§		
For: Remote Control of Fluid-Handling Devices	§	Atty. Docket:	034392-0456380
	§		

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

CERTIFICATE OF TRANSMISSION OR MAILING
37 C.F.R. 1.8

I hereby certify that this correspondence is being transmitted by facsimile to the United States Patent and Trademark Office in accordance with 37 C.F.R. § 1.6(d), or is being transmitted via the Office electronic filing system in accordance with 37 C.F.R. § 1.6(a)(4), or is being deposited with the U.S. Postal Service with sufficient postage as First Class Mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date below:

01 July 2019	/Joshua Tucker/
Date	Joshua Tucker, reg. no. 63809

Commissioner:

REQUEST FOR CORRECTED FILING RECEIPT

Attached is a copy of the Official Filing Receipt from the USPTO in the above application for which issuance of a corrected filing receipt is respectfully requested. Please note that this information appears correctly on the Application Data Sheet as filed with the application on 01 September 2018. There is an error with respect to the following data which is incorrectly entered or omitted:

Error in	**Correct data**
Applicant(s)	SitePro, Inc., Lubbock, TX

Respectfully submitted,

Date: 01 July 2019

/Joshua Tucker/

Joshua Tucker
Registration No. 63809
Pillsbury Winthrop Shaw Pittman LLP
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Phone 512-580-9628

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IPR2024-00741-U.S. Patent No. 10,488,871

CORRECTED

PTO/AIA/14 (11-15)
Approved for use through 04/30/2017. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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	034392-0456380
	Application Number	15/867,077
Title of Invention	REMOTE CONTROL OF FLUID-HANDLING DEVICES	

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
	Aaron		Phillips	

Residence Information (Select One) ◉ US Residency ○ Non US Residency ○ Active US Military Service

City	Lubbock	State/Province	TX	Country of Residence	US

Mailing Address of Inventor:

Address 1	2806 87th Street		
Address 2			
City	Lubbock	State/Province	TX
Postal Code	79423	Country	US

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).

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

Customer Number	00909		
Email Address	docket_ip@pillsburylaw.com	Add Email	Remove Email

Application Information:

Title of the Invention	REMOTE CONTROL OF FLUID-HANDLING DEVICES		
Attorney Docket Number	034392-0456380	Small Entity Status Claimed	☒
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	3	Suggested Figure for Publication (if any)	

PTO/AIA/14 (11-15)
Approved for use through 04/30/2017. OMB 0651-0032
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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	034392-0456380
	Application Number	15/867,077
Title of Invention	REMOTE CONTROL OF FLUID-HANDLING DEVICES	

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	00909		

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	Pending		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
	Continuation of	14984422	2015-12-30

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	034392-0456380
	Application Number	15/867,077
Title of Invention	REMOTE CONTROL OF FLUID-HANDLING DEVICES	

Prior Application Status	Patented			Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
14984422	Continuation of	14147190	2014-01-03	9342078	2016-05-17
Prior Application Status	Patented			Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
14147190	Continuation of	13708557	2012-12-07	8649909	2014-02-11

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).

			Remove
Application Number	Country[i]	Filing Date (YYYY-MM-DD)	Access Code[i] (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	034392-0456380
	Application Number	15/867,077
Title of Invention	REMOTE CONTROL OF FLUID-HANDLING DEVICES	

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)

☐ A. Applicant **DOES NOT** authorize the USPTO to permit a participating foreign IP office access to the instant application-as-filed. If this box is checked, the USPTO will not be providing a participating foreign IP office with any documents and information identified in subsection 1A above.

☐ B. Applicant **DOES NOT** authorize the USPTO to transmit to the EPO any search results from the instant patent application. If this box is checked, the USPTO will not be providing the EPO with search results from the instant application.

NOTE: Once the application has published or is otherwise publicly available, the USPTO may provide access to the application in accordance with 37 CFR 1.14.

PTO/AIA/14 (11-15)
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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

CORRECTED

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	034392-0456380
	Application Number	15/867,077
Title of Invention	REMOTE CONTROL OF FLUID-HANDLING DEVICES	

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

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	

If applicant is the legal representative, indicate the authority to file the patent application, the inventor is:

Name of the Deceased or Legally Incapacitated Inventor:

If the Applicant is an Organization check here. ☒

Organization Name	~~AmpliSine Labs, LLC.~~ SitePro, Inc.

Mailing Address Information For Applicant:

Address 1	9502 HWY 87		
Address 2			
City	Lubbock	**State/Province**	TX
Country	US	Postal Code	79423
Phone Number		Fax Number	
Email Address			

Additional Applicant Data may be generated within this form by selecting the Add button.

Assignee Information including Non-Applicant Assignee 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.

PTO/AIA/14 (11-15)
Approved for use through 04/30/2017. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

CORRECTED

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	034392-0456380
	Application Number	15/867,077
Title of Invention	REMOTE CONTROL OF FLUID-HANDLING DEVICES	

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.

If the Assignee or Non-Applicant Assignee is an Organization check here. ☐

Prefix	**Given Name**	Middle Name	**Family Name**	Suffix

Mailing Address Information For Assignee including Non-Applicant Assignee:

Address 1			
Address 2			
City		**State/Province**	
Country		Postal Code	
Phone Number		Fax Number	
Email Address			

Additional Assignee or Non-Applicant Assignee Data may be generated within this form by selecting the Add button.

Signature:

NOTE: This Application Data Sheet must be signed in accordance with 37 CFR 1.33(b). **However, if this Application Data Sheet is submitted with the INITIAL filing of the application and either box A or B is not checked in subsection 2 of the "Authorization or Opt-Out of Authorization to Permit Access" section, then this form must also be signed in accordance with 37 CFR 1.14(c).**

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	/Joshua Tucker/			Date (YYYY-MM-DD)	2019-07-01
First Name	Joshua	Last Name	Tucker	Registration Number	63809

Additional Signature may be generated within this form by selecting the Add button.

The Integration Group of The Americas, Ex. 1004-Page 142
SitePro, Inc. v. WaterBridge Resources, LLC, et al
IPR2024-00741-U.S. Patent No. 10,488,871

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	034392-0456380
	Application Number	15/867,077
Title of Invention	REMOTE CONTROL OF FLUID-HANDLING DEVICES	

This collection of information is required by 37 CFR 1.76. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 23 minutes to complete, including gathering, preparing, and submitting the completed application data sheet form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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 the Freedom of Information Act requires disclosure of these records.

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 CooperationTreaty.

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.

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.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Aaron Phillips	§	
	§	Group Art Unit: 2116
	§	Confirmation No.: 8753
Serial No.: 15/867,077	§	Examiner: Everett, Christopher E
Filed: January 10, 2018	§	
	§	
For: Remote Control Of Fluid-Handling Devices	§	Atty. Docket: 034392-0456380
	§	

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

CERTIFICATE OF TRANSMISSION OR MAILING
37 C.F.R. 1.8

I hereby certify that this correspondence is being transmitted by facsimile to the United States Patent and Trademark Office in accordance with 37 C.F.R. § 1.6(d), or is being transmitted via the Office electronic filing system in accordance with 37 C.F.R. § 1.6(a)(4), or is being deposited with the U.S. Postal Service with sufficient postage as First Class Mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date below:

01 July 2019	/Joshua Tucker/
Date	Joshua Tucker

Commissioner:

AMENDMENT AND RESPONSE
TO NON-FINAL OFFICE ACTION ISSUED ON 01 MARCH 2019

In response to the above-noted office action, Applicants amend and remark as follows.

Authorization for Extensions of Time and Payment of Fees

In accordance with 37 C.F.R. § 1.136, Applicants hereby provide a general authorization to treat this and any future reply requiring an extension of time as incorporating a request thereof. The Commissioner is authorized to charge Deposit Account No. 033975, referencing the above attorney docket number.

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	6162	700/1,282,275,281,42.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2019/02/25 11:11
L2	7047	702/6,13,183,188.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2019/02/25 11:11
L3	26678	709/224.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2019/02/25 11:11
L4	1163	166/336,363,250.1.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2019/02/25 11:11
L5	553	340/853.3,853.2,856.3.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2019/02/25 11:11
L6	41304	L1 L2 L3 L4 L5	US-PGPUB; USPAT; EPO	OR	ON	2019/02/25 11:11
L7	255944	(oil hydrocarbon (hydro adj2 carbon) gas) near2 (well site disposal station)	US-PGPUB; USPAT; EPO	OR	ON	2019/02/25 11:11
L8	3560512	(controller control device) near2 (operate operat$4 adjust drive move close)	US-PGPUB; USPAT; EPO	OR	ON	2019/02/25 11:11
L9	80	((AARON) near2 (PHILLIPS)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2019/02/25 11:11
L10	5	((AARON) near2 (PHILLIPS)).INV.	EPO; JPO; DERWENT	OR	ON	2019/02/25 11:11
L11	13	(AMPLISINE adj2 LABS).as.	EPO; JPO; DERWENT	OR	ON	2019/02/25 11:11
L12	8	real-time and onsite and internet and communication	EPO; JPO; DERWENT	OR	ON	2019/02/25 11:11
L13	20	(US-20040262008-$ or US-20120316658-$ or US-20080208475-$ or US-20060271299-$ or US-20060240818-$ or US-20050092523-$ or US-20040231851-$ or US-20040088115-$ or US-20030182463-$ or US-20020169645-$ or US-20020112860-$).did. or (US-7148812-$ or US-7958938-$ or US-7967066-$ or US-7845404-$ or US-6913083-$ or US-5732776-$ or US-4052703-$ or US-8179279-$).did. or	US-PGPUB; USPAT; EPO	OR	ON	2019/02/25 11:11

		(WO-2008124765-$).did.				
L14	0	L13 and (oil near2 water near2 separation)	US-PGPUB; USPAT; EPO	OR	ON	2019/02/25 11:11
L15	7	L13 and (oil near2 water)	US-PGPUB; USPAT; EPO	OR	ON	2019/02/25 11:11
L16	7529	(oil near2 water near2 separation)	US-PGPUB; USPAT; EPO	OR	ON	2019/02/25 11:11
L17	3807	L16 and pump	US-PGPUB; USPAT; EPO	OR	ON	2019/02/25 11:11
L18	1433	L17 and (oil near2 well)	US-PGPUB; USPAT; EPO	OR	ON	2019/02/25 11:11
L19	390	L18 and (oil near2 level)	US-PGPUB; USPAT; EPO	OR	ON	2019/02/25 11:11
L20	6	L19 and ("700"/$.ccls. "702"/$.ccls.)	US-PGPUB; USPAT; EPO	OR	ON	2019/02/25 11:11
L21	2051	L6 and L7	US-PGPUB; USPAT; EPO	OR	ON	2019/02/25 11:11
L22	3428769	(internet network (web adj2 server))	US-PGPUB; USPAT; EPO	OR	ON	2019/02/25 11:11
L23	31081	(local autonomous independent) near2 (controller control device) near2 (operate operat$4 adjust drive move close)	US-PGPUB; USPAT; EPO	OR	ON	2019/02/25 11:11
L24	979	L8 and L21	US-PGPUB; USPAT; EPO	OR	ON	2019/02/25 11:11
L25	514	L24 and L22	US-PGPUB; USPAT; EPO	OR	ON	2019/02/25 11:11
L26	709	L7 and L23	US-PGPUB; USPAT; EPO	OR	ON	2019/02/25 11:11
L27	16	L25 and L26	US-PGPUB; USPAT; EPO	OR	ON	2019/02/25 11:11
L28	23	L7 and L23 and L6	US-PGPUB; USPAT;	OR	ON	2019/02/25 11:11

			EPO			
L29	975821	(remote internet network) near2 (control monitor control$4 monitor$4 command)	US-PGPUB; USPAT; EPO	OR	ON	2019/02/25 11:11
L30	18051	L29 and L7	US-PGPUB; USPAT; EPO	OR	ON	2019/02/25 11:11
L31	286	L30 and L23	US-PGPUB; USPAT; EPO	OR	ON	2019/02/25 11:11
L32	381	L9 L10 L11 L12 L14 L15 L20 L27 L28 L31	US-PGPUB; USPAT; EPO	OR	ON	2019/02/25 11:11
L33	5106	G05D7/0676;G05B9/02;E21B47/00;G05B2219/23472.cpc.	US-PGPUB; USPAT; EPO	OR	ON	2019/02/25 11:11
L34	34	L33 and L23 and L22	US-PGPUB; USPAT; EPO	OR	ON	2019/02/25 11:11
L35	46	(US-20040262008-$ or US-20020161685-$ or US-20090055029-$ or US-20120316658-$ or US-20080208475-$ or US-20060271299-$ or US-20060240818-$ or US-20050092523-$ or US-20040231851-$ or US-20040088115-$ or US-20030182463-$ or US-20020169645-$ or US-20020112860-$ or US-20090149969-$ or US-20100147510-$ or US-20050096846-$ or US-20110231024-$ or US-20120310582-$ or US-20010032518-$ or US-20140163749-$).did. or (US-7289994-$ or US-6801135-$ or US-7148812-$ or US-7958938-$ or US-7967066-$ or US-7845404-$ or US-6913083-$ or US-5732776-$ or US-4052703-$ or US-8179279-$ or US-5149443-$ or US-8386059-$ or US-8131510-$ or US-8373418-$ or US-8312320-$ or US-8290737-$ or US-7931090-$ or US-7921916-$ or US-6061603-$ or US-6192980-$ or US-6435022-$ or US-4823749-$ or US-8208478-$ or US-7347271-$ or US-5959547-$).did. or (WO-2008124765-$).did.	US-PGPUB; USPAT; EPO	OR	ON	2019/02/25 11:11
L36	4	L35 and (network adj2 (address addresses))	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2019/02/25 11:11
L37	47	(US-20120316658-$ or US-20080208475-$ or US-20060271299-$ or US-20060240818-$ or US-20050092523-$ or US-20040231851-$ or US-20040088115-$ or US-20030182463-$ or US-20020169645-$ or US-20040262008-$ or US-20020112860-$ or US-20090149969-$ or US-20100147510-$ or US-20050096846-$ or US-20110231024-$ or US-20020161685-$ or US-20120310582-$ or US-20010032518-$ or US-20140163749-$ or US-20090055029-$ or US-20020018399-$).did. or (US-7148812-$ or US-7958938-$ or US-7967066-$ or US-7845404-$ or US-6913083-$ or US-5732776-$ or US-4052703-$ or US-8179279-$ or US-	US-PGPUB; USPAT; EPO	OR	ON	2019/02/25 11:11

		5149443-$ or US-8386059-$ or US-8131510-$ or US-7289994-$ or US-8373418-$ or US-8312320-$ or US-8290737-$ or US-7931090-$ or US-7921916-$ or US-6061603-$ or US-6192980-$ or US-6435022-$ or US-4823749-$ or US-8208478-$ or US-7347271-$ or US-5959547-$ or US-5941305-$).did. or (WO-2008124765-$).did.				
L38	29	L37 and (cell cellular wireless)	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2019/02/25 11:11
L39	12	L38 and (web html)	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2019/02/25 11:11
L40	51	(US-20120316658-$ or US-20080208475-$ or US-20060271299-$ or US-20060240818-$ or US-20050092523-$ or US-20040231851-$ or US-20040088115-$ or US-20030182463-$ or US-20020169645-$ or US-20040262008-$ or US-20020112860-$ or US-20090149969-$ or US-20100147510-$ or US-20050096846-$ or US-20110231024-$ or US-20020161685-$ or US-20120310582-$ or US-20010032518-$ or US-20140163749-$ or US-20090055029-$ or US-20020018399-$ or US-20100033318-$).did. or (US-7148812-$ or US-7958938-$ or US-7967066-$ or US-7845404-$ or US-6913083-$ or US-5732776-$ or US-4052703-$ or US-8179279-$ or US-5149443-$ or US-8386059-$ or US-8131510-$ or US-7289994-$ or US-8373418-$ or US-8312320-$ or US-8290737-$ or US-7931090-$ or US-7921916-$ or US-6061603-$ or US-6192980-$ or US-6435022-$ or US-4823749-$ or US-8208478-$ or US-7347271-$ or US-5959547-$ or US-5941305-$ or US-7096092-$).did. or (US-6967589-$ or US-6356205-$).did. or (WO-2008124765-$).did.	US-PGPUB; USPAT; EPO	OR	ON	2019/02/25 11:11
L41	20	L40 and (cell cellular)	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2019/02/25 11:11
L42	48	(US-20120029661-$ or US-20080077512-$ or US-20100179669-$ or US-20040125141-$ or US-20040075689-$ or US-20040064205-$ or US-20120041570-$ or US-20050027377-$ or US-20050027376-$ or US-20110173556-$ or US-20080208380-$ or US-20070179641-$ or US-20050120288-$ or US-20040186927-$ or US-20030233438-$ or US-20030225650-$ or US-20030107591-$ or US-20090327942-$ or US-20080189638-$ or US-20080125877-$ or US-20080065706-$ or US-20080065705-$ or US-20080034047-$ or US-20070239291-$).did. or (US-6931288-$ or US-7515977-$ or US-8677262-$ or US-8533619-$ or US-8356257-$ or US-7680546-$ or US-7526794-$ or US-6889096-$ or US-8516383-$ or US-7971151-$ or US-7783370-$ or US-7729792-$ or US-7526347-$ or US-7152072-$ or US-7117052-$ or US-7043311-$ or US-6834370-$ or US-6735596-$ or US-6442512-$ or US-6434500-$ or US-5631825-$ or US-6445963-$ or US-6522934-$ or US-6247020-$).did.	US-PGPUB; USPAT	OR	ON	2019/02/25 11:11

L43	24	L42 and (address addresses)	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2019/02/25 11:11
L44	17	L42 and (cell cellular)	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2019/02/25 11:11
L45	13	L43 and L44	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2019/02/25 11:11
L46	6162	700/1,282,275,281,42.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2019/02/25 11:11
L47	7047	702/6,13,183,188.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2019/02/25 11:11
L48	26678	709/224.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2019/02/25 11:11
L49	1163	166/336,363,250.1.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2019/02/25 11:11
L50	553	340/853.3,853.2,856.3.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2019/02/25 11:11
L51	41304	L46 L47 L48 L49 L50	US-PGPUB; USPAT; EPO	OR	ON	2019/02/25 11:11
L52	113460	(G05D7/0676 or H04L67/02 or G05B19/0428 or G06F3/0484 or E21B47/00 or G05B9/02 or G05B2219/24015 or G05B2219/25204 or G05B2219/31369 or G05B2219/23472).cpc.	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2019/02/25 11:11
L53	152783	L52 L51	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2019/02/25 11:11
L54	428	((web html) near4 (control controlling) near4 (actuator controller valve)).ab.	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2019/02/25 11:11
L55	22	L53 and L54	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2019/02/25 11:11
L56	19	L54 and 700/$.ccls.	US-PGPUB;	OR	ON	2019/02/25 11:11

			USPAT; FPRS; EPO			
L57	36	L55 L56	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2019/02/25 11:11
L58	54	(US-20120316658-$ or US-20080208475-$ or US-20060271299-$ or US-20060240818-$ or US-20050092523-$ or US-20040231851-$ or US-20040088115-$ or US-20030182463-$ or US-20020169645-$ or US-20040262008-$ or US-20020112860-$ or US-20090149969-$ or US-20100147510-$ or US-20050096846-$ or US-20110231024-$ or US-20020161685-$ or US-20120310582-$ or US-20010032518-$ or US-20140163749-$ or US-20090055029-$ or US-20020018399-$ or US-20100033318-$ or US-20080077512-$ or US-20030052180-$).did. or (US-7148812-$ or US-7958938-$ or US-7967066-$ or US-7845404-$ or US-6913083-$ or US-5732776-$ or US-4052703-$ or US-8179279-$ or US-5149443-$ or US-8386059-$ or US-8131510-$ or US-7289994-$ or US-8373418-$ or US-8312320-$ or US-8290737-$ or US-7931090-$ or US-7921916-$ or US-6061603-$ or US-6192980-$ or US-6435022-$ or US-4823749-$ or US-8208478-$ or US-7347271-$ or US-5959547-$ or US-5941305-$ or US-7096092-$).did. or (US-6967589-$ or US-6356205-$ or US-5805926-$).did. or (WO-2008124765-$).did.	US-PGPUB; USPAT; EPO	OR	ON	2019/02/25 11:11
L59	2	L58 and (leak adj4 sensor)	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2019/02/25 11:11
L60	8	L58 and (private)	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2019/02/25 11:11
L61	6	L58 and (carrier)	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2019/02/25 11:11
L62	2	L58 and (validity)	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2019/02/25 11:11
L63	137	("5247447" | "5272642" | "5353229").PN. OR ("5546301").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2019/02/25 11:11
L64	23	L63 and thread	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2019/02/25 11:11
L65	0	(thread near4 (actuator and sensor and synchronize and data))	US-PGPUB;	OR	ON	2019/02/25 11:11

			USPAT; FPRS; EPO			
L66	163	(thread near4 (actuator and sensor))	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2019/02/25 11:11
L67	10	L66 and 700/$.ccls.	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2019/02/25 11:11
L68	531	L32 L65 L67 L64 L59 L60 L61 L62 L57 L56 L55 L45 L44 L43 L41 L36 L38 L39 L34	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2019/02/25 11:11
L69	531	L68	US-PGPUB; USPAT; FPRS; EPO; DERWENT	OR	ON	2019/02/25 11:11
S1	11	("20020161685" | "20020169645" | "20030004624" | "20030182463" | "20040088115" | "20040231851" | "20050108504" | "20060240818" | "20080208475" | "20100295673" | "20120316658").PN.	US-PGPUB; USPAT; EPO	OR	ON	2013/02/22 08:35
S2	34	((AARON) near2 (PHILLIPS)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2013/02/22 08:35
S3	5	((AARON) near2 (PHILLIPS)).INV.	EPO; JPO; DERWENT	OR	ON	2013/02/22 08:35
S4	0	(AMPLISINE adj2 LABS).as.	EPO; JPO; DERWENT	OR	ON	2013/02/22 08:36
S5	5	real-time and onsite and internet and communication	EPO; JPO; DERWENT	OR	ON	2013/02/22 08:39
S6	1	("20060149476").PN.	US-PGPUB; USPAT; EPO	OR	OFF	2013/02/22 08:39
S7	1	("20060271299").PN.	US-PGPUB; USPAT; EPO	OR	OFF	2013/02/22 08:40
S8	1	("20030065447").PN.	US-PGPUB; USPAT; EPO	OR	OFF	2013/02/22 08:40
S9	1	("4594665").PN.	US-PGPUB; USPAT; EPO	OR	OFF	2013/02/22 08:40
S10	1	("20050092523").PN.	US-PGPUB; USPAT; EPO	OR	OFF	2013/02/22 08:42
S11	1	("20060047527").PN.	US-PGPUB;	OR	OFF	2013/02/22 08:42

			USPAT; EPO			
S12	53	S1 S2 S3 S4 S5 S6 S7 S8 S9 S10 S11	US-PGPUB; USPAT; EPO	OR	ON	2013/02/22 08:54
S13	17	(US-20090260829-$ or US-20020112860-$ or US-20040262008-$ or US-20070107903-$ or US-20040251030-$).did. or (US-7000693-$ or US-6420976-$ or US-7967066-$ or US-RE41173-$ or US-7148812-$ or US-6768700-$ or US-7845404-$ or US-6913083-$ or US-4636934-$ or US-5732776-$ or US-4052703-$ or US-7958938-$ or US-4755943-$).did.	EPO; JPO; DERWENT	OR	ON	2013/02/22 09:01
S14	1	("7261162").PN.	US-PGPUB; USPAT; EPO	OR	OFF	2013/02/22 09:05
S15	62	("5331318" | "5597042" | "5662165" | "5706892" | "5706896" | "5721538" | "5730219" | "5732776" | "5803167" | "5868201" | "5934371" | "5941307" | "5959547" | "5975204" | "5992250" | "6006832" | "6012015" | "6046685" | "6068053" | "6075462" | "6125938" | "6160492" | "6161618" | "6176312" | "6179057" | "6192980" | "6192988" | "6209640" | "6247536" | "6257332" | "6271766" | "6276454" | "6279660" | "6281489" | "6288975" | "6296066" | "6422315" | "6469636" | "6498988" | "6622799" | "6670880" | "6717501" | "6788980" | "6801135" | "6816082" | "6851444").PN. OR ("7261162").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2013/02/22 09:05
S16	1	("20040262008").PN.	US-PGPUB; USPAT; EPO	OR	OFF	2013/02/22 09:05
S17	1	("7148812").PN.	US-PGPUB; USPAT; EPO	OR	OFF	2013/02/22 09:08
S18	1	("7958938").PN.	US-PGPUB; USPAT; EPO	OR	OFF	2013/02/22 09:08
S19	1	("7967066").PN.	US-PGPUB; USPAT; EPO	OR	OFF	2013/02/22 09:08
S20	1	("7845404").PN.	US-PGPUB; USPAT; EPO	OR	OFF	2013/02/22 09:08
S21	1	("6913083").PN.	US-PGPUB; USPAT; EPO	OR	OFF	2013/02/22 09:09
S22	1	("20020112860").PN.	US-PGPUB; USPAT; EPO	OR	OFF	2013/02/22 09:09
S23	1	("5732776").PN.	US-PGPUB; USPAT; EPO	OR	OFF	2013/02/22 09:10

S24	1	("4052703").PN.	US-PGPUB; USPAT; EPO	OR	OFF	2013/02/22 09:11
S25	20	(US-20040262008-$ or US-20120316658-$ or US-20080208475-$ or US-20060271299-$ or US-20060240818-$ or US-20050092523-$ or US-20040231851-$ or US-20040088115-$ or US-20030182463-$ or US-20020169645-$ or US-20020112860-$).did. or (US-7148812-$ or US-7958938-$ or US-7967066-$ or US-7845404-$ or US-6913083-$ or US-5732776-$ or US-4052703-$ or US-8179279-$).did. or (WO-2008124765-$).did.	US-PGPUB; USPAT; EPO	OR	ON	2013/02/25 15:50
S26	0	S25 and (oil near2 water near2 separation)	US-PGPUB; USPAT; EPO	OR	ON	2013/02/25 15:50
S27	7	S25 and (oil near2 water)	US-PGPUB; USPAT; EPO	OR	ON	2013/02/25 15:51
S28	4518	(oil near2 water near2 separation)	US-PGPUB; USPAT; EPO	OR	ON	2013/02/25 15:52
S29	2295	S28 and pump	US-PGPUB; USPAT; EPO	OR	ON	2013/02/25 15:53
S30	839	S29 and (oil near2 well)	US-PGPUB; USPAT; EPO	OR	ON	2013/02/25 15:53
S31	239	S30 and (oil near2 level)	US-PGPUB; USPAT; EPO	OR	ON	2013/02/25 15:54
S32	2	S31 and ("700"/$.ccls. "702"/$.ccls.)	US-PGPUB; USPAT; EPO	OR	ON	2013/02/25 15:54
S33	4284	700/1,282,275,281,42.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2013/02/26 10:07
S34	5841	702/6,13,183,188.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2013/02/26 10:07
S35	18470	709/224.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2013/02/26 10:07
S36	767	166/336,363,250.1.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2013/02/26 10:07
S37	463	340/853.3,853.2,856.3.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2013/02/26 10:08

S38	29579	S33 S34 S35 S36 S37	US-PGPUB; USPAT; EPO	OR	ON	2013/02/26 10:08
S39	168445	(oil hydrocarbon (hydro adj2 carbon) gas) near2 (well site disposal station)	US-PGPUB; USPAT; EPO	OR	ON	2013/02/26 10:08
S40	2119066	(controller control device) near2 (operate operat$4 adjust drive move close)	US-PGPUB; USPAT; EPO	OR	ON	2013/02/26 10:10
S41	1404	S38 and S39	US-PGPUB; USPAT; EPO	OR	ON	2013/02/26 10:10
S42	1837654	(internet network (web adj2 server))	US-PGPUB; USPAT; EPO	OR	ON	2013/02/26 10:11
S43	579	S41 and (internet network (web adj2 server))	US-PGPUB; USPAT; EPO	OR	ON	2013/02/26 10:11
S44	15604	(local autonomous independent) near2 (controller control device) near2 (operate operat$4 adjust drive move close)	US-PGPUB; USPAT; EPO	OR	ON	2013/02/26 10:12
S45	642	S40 and S41	US-PGPUB; USPAT; EPO	OR	ON	2013/02/26 10:12
S46	315	S45 and S42	US-PGPUB; USPAT; EPO	OR	ON	2013/02/26 10:12
S47	337	S39 and S44	US-PGPUB; USPAT; EPO	OR	ON	2013/02/26 10:12
S48	6	S46 and S47	US-PGPUB; USPAT; EPO	OR	ON	2013/02/26 10:12
S49	2	("2010/0147510").URPN.	USPAT	OR	ON	2013/02/26 10:13
S50	62	("5331318" | "5597042" | "5662165" | "5706892" | "5706896" | "5721538" | "5730219" | "5732776" | "5803167" | "5868201" | "5934371" | "5941307" | "5959547" | "5975204" | "5992250" | "6006832" | "6012015" | "6046685" | "6068053" | "6075462" | "6125938" | "6160492" | "6161618" | "6176312" | "6179057" | "6192980" | "6192988" | "6209640" | "6247536" | "6257332" | "6271766" | "6276454" | "6279660" | "6281489" | "6288975" | "6296066" | "6422315" | "6469636" | "6498988" | "6622799" | "6670880" | "6717501" | "6788980" | "6801135" | "6816082" | "6851444").PN. OR ("7261162").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2013/02/26 10:14
S51	11	("5941305" | "5959547" | "5978749" | "6061603" | "6670880").PN. OR ("6801135").URPN.	US-PGPUB;	OR	ON	2013/02/26 10:18

			USPAT; USOCR			
S52	10	S39 and S44 and S38	US-PGPUB; USPAT; EPO	OR	ON	2013/02/26 10:21
S53	337	S39 and S44	US-PGPUB; USPAT; EPO	OR	ON	2013/02/26 10:22
S54	203	S53 and (internet network (web adj2 server))	US-PGPUB; USPAT; EPO	OR	ON	2013/02/26 10:22
S55	387	(local autonomous independent) and S45	US-PGPUB; USPAT; EPO	OR	ON	2013/02/26 10:25
S56	381	S55 not S54	US-PGPUB; USPAT; EPO	OR	ON	2013/02/26 10:25
S57	501662	(remote internet network) near2 (control monitor control$4 monitor$4 command)	US-PGPUB; USPAT; EPO	OR	ON	2013/02/26 10:28
S58	8886	S57 and S39	US-PGPUB; USPAT; EPO	OR	ON	2013/02/26 10:29
S59	106	S58 and S44	US-PGPUB; USPAT; EPO	OR	ON	2013/02/26 10:29
S60	44	("20030004624" | "20040088115" | "20100147510" | "5732776" | "7931090" | "7967066" | "8312320" | "20130144531" | "8301386" | "20050108504" | "20100295673" | "20110231024" | "6061603" | "8386059" | "20100098507" | "20030182463" | "4052703" | "6192980" | "7958938" | "8373418" | "20130024026" | "20040231851" | "20060240818" | "7148812" | "7289994" | "20120316658" | "20040262008" | "7921916" | "8131510" | "8290737" | "20100326654" | "20020161685" | "20090149969" | "7845404" | "8179279" | "20020112860" | "20050096846" | "5149443" | "6801135" | "6913083" | "20130008645" | "20020169645" | "20080208475" | "7591308").PN.	US-PGPUB; USPAT; EPO	OR	ON	2013/06/11 13:22
S61	37	(US-20040262008-$ or US-20020112860-$ or US-20090149969-$ or US-20100147510-$ or US-20050096846-$ or US-20110231024-$ or US-20120316658-$ or US-20080208475-$ or US-20060271299-$ or US-20060240818-$ or US-20050092523-$ or US-20040231851-$ or US-20040088115-$ or US-20030182463-$ or US-20020169645-$ or US-20020161685-$).did. or (US-7148812-$ or US-7958938-$ or US-7967066-$ or US-7845404-$ or US-6913083-$ or US-5732776-$ or US-4052703-$ or US-8179279-$ or US-5149443-$ or US-8386059-$ or US-8131510-$ or US-7289994-$ or US-8373418-$ or US-8312320-$ or US-8290737-$ or US-7931090-$ or US-7921916-$ or US-6801135-$ or US-	US-PGPUB; USPAT; EPO	OR	ON	2013/06/12 07:58

		6061603-$ or US-6192980-$).did. or (WO-2008124765-$).did.				
S62	0	S61 and oscillate	US-PGPUB; USPAT; EPO	OR	ON	2013/06/12 07:58
S63	1	S61 and (stuck adj3 valve)	US-PGPUB; USPAT; EPO	OR	ON	2013/06/12 07:59
S64	4400	700/1,282,275,281,42.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2013/06/12 08:10
S65	5969	702/6,13,183,188.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2013/06/12 08:10
S66	19220	709/224.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2013/06/12 08:10
S67	804	166/336,363,250.1.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2013/06/12 08:10
S68	475	340/853.3,853.2,856.3.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2013/06/12 08:10
S69	30612	S64 S65 S66 S67 S68	US-PGPUB; USPAT; EPO	OR	ON	2013/06/12 08:10
S70	172242	(oil hydrocarbon (hydro adj2 carbon) gas) near2 (well site disposal station)	US-PGPUB; USPAT; EPO	OR	ON	2013/06/12 08:10
S71	241	S69 and S70 and "240"	US-PGPUB; USPAT; EPO	OR	ON	2013/06/12 08:10
S72	2175607	(controller control device) near2 (operate operat$4 adjust drive move close)	US-PGPUB; USPAT; EPO	OR	ON	2013/06/12 08:11
S73	664	S69 and S70 and S72	US-PGPUB; USPAT; EPO	OR	ON	2013/06/12 08:11
S74	6	S73 and (inoperative in-operative stuck) adj3 (valve part)	US-PGPUB; USPAT; EPO	OR	ON	2013/06/12 08:11
S75	94	S70 and (stuck) adj3 (valve)	US-PGPUB; USPAT; EPO	OR	ON	2013/06/12 08:14
S76	94	S70 and ((stuck) adj3 (valve))	US-PGPUB;	OR	ON	2013/06/12 08:14

			USPAT; EPO			
S77	109	S70 and ((frozen froze stuck) adj3 (valve))	US-PGPUB; USPAT; EPO	OR	ON	2013/06/12 08:19
S78	12	((move jerk oscillate move) near2 ((frozen froze stuck) adj3 (valve)))	US-PGPUB; USPAT; EPO	OR	ON	2013/06/12 08:21
S79	1	("4823749").PN.	US-PGPUB; USPAT; EPO	OR	OFF	2013/06/12 08:22
S80	1	("20010032518").PN.	US-PGPUB; USPAT; EPO	OR	OFF	2013/06/12 10:53
S81	35	((AARON) near2 (PHILLIPS)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2013/06/12 11:14
S82	5	((AARON) near2 (PHILLIPS)).INV.	EPO; JPO; DERWENT	OR	ON	2013/06/12 11:14
S83	0	(AMPLISINE adj2 LABS).as.	EPO; JPO; DERWENT	OR	ON	2013/06/12 11:14
S84	5	real-time and onsite and internet and communication	EPO; JPO; DERWENT	OR	ON	2013/06/12 11:14
S85	20	(US-20040262008-$ or US-20120316658-$ or US-20080208475-$ or US-20060271299-$ or US-20060240818-$ or US-20050092523-$ or US-20040231851-$ or US-20040088115-$ or US-20030182463-$ or US-20020169645-$ or US-20020112860-$).did. or (US-7148812-$ or US-7958938-$ or US-7967066-$ or US-7845404-$ or US-6913083-$ or US-5732776-$ or US-4052703-$ or US-8179279-$).did. or (WO-2008124765-$).did.	US-PGPUB; USPAT; EPO	OR	ON	2013/06/12 11:14
S86	0	S85 and (oil near2 water near2 separation)	US-PGPUB; USPAT; EPO	OR	ON	2013/06/12 11:14
S87	7	S85 and (oil near2 water)	US-PGPUB; USPAT; EPO	OR	ON	2013/06/12 11:14
S88	4795	(oil near2 water near2 separation)	US-PGPUB; USPAT; EPO	OR	ON	2013/06/12 11:14
S89	2432	S88 and pump	US-PGPUB; USPAT; EPO	OR	ON	2013/06/12 11:14
S90	889	S89 and (oil near2 well)	US-PGPUB; USPAT; EPO	OR	ON	2013/06/12 11:14
S91	246	S90 and (oil near2 level)	US-PGPUB; USPAT;	OR	ON	2013/06/12 11:14

			EPO			
S92	2	S91 and ("700"/$.ccls. "702"/$.ccls.)	US-PGPUB; USPAT; EPO	OR	ON	2013/06/12 11:14
S93	1458	S69 and S70	US-PGPUB; USPAT; EPO	OR	ON	2013/06/12 11:14
S94	1900176	(internet network (web adj2 server))	US-PGPUB; USPAT; EPO	OR	ON	2013/06/12 11:14
S95	16083	(local autonomous independent) near2 (controller control device) near2 (operate operat$4 adjust drive move close)	US-PGPUB; USPAT; EPO	OR	ON	2013/06/12 11:14
S96	664	S72 and S93	US-PGPUB; USPAT; EPO	OR	ON	2013/06/12 11:14
S97	327	S96 and S94	US-PGPUB; USPAT; EPO	OR	ON	2013/06/12 11:14
S98	343	S70 and S95	US-PGPUB; USPAT; EPO	OR	ON	2013/06/12 11:14
S99	6	S97 and S98	US-PGPUB; USPAT; EPO	OR	ON	2013/06/12 11:14
S100	10	S70 and S95 and S69	US-PGPUB; USPAT; EPO	OR	ON	2013/06/12 11:14
S101	528886	(remote internet network) near2 (control monitor control$4 monitor$4 command)	US-PGPUB; USPAT; EPO	OR	ON	2013/06/12 11:14
S102	9459	S101 and S70	US-PGPUB; USPAT; EPO	OR	ON	2013/06/12 11:14
S103	110	S102 and S95	US-PGPUB; USPAT; EPO	OR	ON	2013/06/12 11:14
S104	158	S81 S82 S83 S84 S86 S87 S92 S99 S100 S103	US-PGPUB; USPAT; EPO	OR	ON	2013/06/12 11:14
S105	16	("2004/0262008").URPN.	USPAT	OR	ON	2013/10/25 12:32
S106	9	("20040262008" | "20050035875" | "4701756" | "5959547" | "6229453" | "6816082").PN. OR ("7148812").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2013/10/25 12:39

S107	1	("5959547").PN.	US-PGPUB; USPAT; EPO	OR	OFF	2013/10/25 12:45
S108	4578	700/1,282,275,281,42.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2013/10/25 12:46
S109	6150	702/6,13,183,188.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2013/10/25 12:46
S110	20349	709/224.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2013/10/25 12:46
S111	850	166/336,363,250.1.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2013/10/25 12:46
S112	486	340/853.3,853.2,856.3.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2013/10/25 12:46
S113	32148	S108 S109 S110 S111 S112	US-PGPUB; USPAT; EPO	OR	ON	2013/10/25 12:46
S114	177528	(oil hydrocarbon (hydro adj2 carbon) gas) near2 (well site disposal station)	US-PGPUB; USPAT; EPO	OR	ON	2013/10/25 12:46
S115	2253717	(controller control device) near2 (operate operat$4 adjust drive move close)	US-PGPUB; USPAT; EPO	OR	ON	2013/10/25 12:46
S116	36	((AARON) near2 (PHILLIPS)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2013/10/25 12:46
S117	5	((AARON) near2 (PHILLIPS)).INV.	EPO; JPO; DERWENT	OR	ON	2013/10/25 12:46
S118	0	(AMPLISINE adj2 LABS).as.	EPO; JPO; DERWENT	OR	ON	2013/10/25 12:46
S119	5	real-time and onsite and internet and communication	EPO; JPO; DERWENT	OR	ON	2013/10/25 12:46
S120	20	(US-20040262008-$ or US-20120316658-$ or US-20080208475-$ or US-20060271299-$ or US-20060240818-$ or US-20050092523-$ or US-20040231851-$ or US-20040088115-$ or US-20030182463-$ or US-20020169645-$ or US-20020112860-$).did. or (US-7148812-$ or US-7958938-$ or US-7967066-$ or US-7845404-$ or US-6913083-$ or US-5732776-$ or US-4052703-$ or US-8179279-$).did. or (WO-2008124765-$).did.	US-PGPUB; USPAT; EPO	OR	ON	2013/10/25 12:46
S121	0	S120 and (oil near2 water near2 separation)	US-PGPUB; USPAT; EPO	OR	ON	2013/10/25 12:46
S122	7	S120 and (oil near2 water)	US-	OR	ON	2013/10/25

			PGPUB; USPAT; EPO			12:46
S123	4935	(oil near2 water near2 separation)	US-PGPUB; USPAT; EPO	OR	ON	2013/10/25 12:46
S124	2501	S123 and pump	US-PGPUB; USPAT; EPO	OR	ON	2013/10/25 12:46
S125	917	S124 and (oil near2 well)	US-PGPUB; USPAT; EPO	OR	ON	2013/10/25 12:46
S126	257	S125 and (oil near2 level)	US-PGPUB; USPAT; EPO	OR	ON	2013/10/25 12:46
S127	2	S126 and ("700"/$.ccls. "702"/$.ccls.)	US-PGPUB; USPAT; EPO	OR	ON	2013/10/25 12:46
S128	1540	S113 and S114	US-PGPUB; USPAT; EPO	OR	ON	2013/10/25 12:46
S129	1987225	(internet network (web adj2 server))	US-PGPUB; USPAT; EPO	OR	ON	2013/10/25 12:46
S130	16785	(local autonomous independent) near2 (controller control device) near2 (operate operat$4 adjust drive move close)	US-PGPUB; USPAT; EPO	OR	ON	2013/10/25 12:46
S131	707	S115 and S128	US-PGPUB; USPAT; EPO	OR	ON	2013/10/25 12:46
S132	351	S131 and S129	US-PGPUB; USPAT; EPO	OR	ON	2013/10/25 12:46
S133	357	S114 and S130	US-PGPUB; USPAT; EPO	OR	ON	2013/10/25 12:46
S134	6	S132 and S133	US-PGPUB; USPAT; EPO	OR	ON	2013/10/25 12:46
S135	10	S114 and S130 and S113	US-PGPUB; USPAT; EPO	OR	ON	2013/10/25 12:46
S136	553323	(remote internet network) near2 (control monitor control$4 monitor$4 command)	US-PGPUB; USPAT; EPO	OR	ON	2013/10/25 12:46
S137	9948	S136 and S114	US-	OR	ON	2013/10/25

			PGPUB; USPAT; EPO			12:46
S138	117	S137 and S130	US-PGPUB; USPAT; EPO	OR	ON	2013/10/25 12:46
S139	166	S116 S117 S118 S119 S121 S122 S127 S134 S135 S138	US-PGPUB; USPAT; EPO	OR	ON	2013/10/25 12:46
S140	166	S139	US-PGPUB; USPAT; EPO	OR	ON	2013/10/25 12:46
S144	4914	700/1,282,275,281,42.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2014/07/22 16:19
S145	6494	702/6,13,183,188.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2014/07/22 16:19
S146	22712	709/224.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2014/07/22 16:19
S147	948	166/336,363,250.1.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2014/07/22 16:19
S148	511	340/853.3,853.2,856.3.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2014/07/22 16:19
S149	35297	S144 S145 S146 S147 S148	US-PGPUB; USPAT; EPO	OR	ON	2014/07/22 16:19
S150	188122	(oil hydrocarbon (hydro adj2 carbon) gas) near2 (well site disposal station)	US-PGPUB; USPAT; EPO	OR	ON	2014/07/22 16:19
S151	2416039	(controller control device) near2 (operate operat$4 adjust drive move close)	US-PGPUB; USPAT; EPO	OR	ON	2014/07/22 16:19
S152	38	((AARON) near2 (PHILLIPS)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2014/07/22 16:19
S153	5	((AARON) near2 (PHILLIPS)).INV.	EPO; JPO; DERWENT	OR	ON	2014/07/22 16:19
S154	2	(AMPLISINE adj2 LABS).as.	EPO; JPO; DERWENT	OR	ON	2014/07/22 16:19
S155	5	real-time and onsite and internet and communication	EPO; JPO; DERWENT	OR	ON	2014/07/22 16:19
S156	20	(US-20040262008-$ or US-20120316658-$ or US-20080208475-$ or US-20060271299-$ or US-	US-PGPUB;	OR	ON	2014/07/22 16:19

		20060240818-$ or US-20050092523-$ or US-20040231851-$ or US-20040088115-$ or US-20030182463-$ or US-20020169645-$ or US-20020112860-$).did. or (US-7148812-$ or US-7958938-$ or US-7967066-$ or US-7845404-$ or US-6913083-$ or US-5732776-$ or US-4052703-$ or US-8179279-$).did. or (WO-2008124765-$).did.	USPAT; EPO			
S157	0	S156 and (oil near2 water near2 separation)	US-PGPUB; USPAT; EPO	OR	ON	2014/07/22 16:19
S158	7	S156 and (oil near2 water)	US-PGPUB; USPAT; EPO	OR	ON	2014/07/22 16:19
S159	5262	(oil near2 water near2 separation)	US-PGPUB; USPAT; EPO	OR	ON	2014/07/22 16:19
S160	2663	S159 and pump	US-PGPUB; USPAT; EPO	OR	ON	2014/07/22 16:19
S161	969	S160 and (oil near2 well)	US-PGPUB; USPAT; EPO	OR	ON	2014/07/22 16:19
S162	268	S161 and (oil near2 level)	US-PGPUB; USPAT; EPO	OR	ON	2014/07/22 16:19
S163	4	S162 and ("700"/$.ccls. "702"/$.ccls.)	US-PGPUB; USPAT; EPO	OR	ON	2014/07/22 16:19
S164	1686	S149 and S150	US-PGPUB; USPAT; EPO	OR	ON	2014/07/22 16:19
S165	2171012	(internet network (web adj2 server))	US-PGPUB; USPAT; EPO	OR	ON	2014/07/22 16:19
S166	18312	(local autonomous independent) near2 (controller control device) near2 (operate operat$4 adjust drive move close)	US-PGPUB; USPAT; EPO	OR	ON	2014/07/22 16:19
S167	776	S151 and S164	US-PGPUB; USPAT; EPO	OR	ON	2014/07/22 16:19
S168	390	S167 and S165	US-PGPUB; USPAT; EPO	OR	ON	2014/07/22 16:19
S169	383	S150 and S166	US-PGPUB; USPAT; EPO	OR	ON	2014/07/22 16:19
S170	8	S168 and S169	US-	OR	ON	2014/07/22

			PGPUB; USPAT; EPO			16:19
S171	12	S150 and S166 and S149	US-PGPUB; USPAT; EPO	OR	ON	2014/07/22 16:19
S172	605853	(remote internet network) near2 (control monitor control$4 monitor$4 command)	US-PGPUB; USPAT; EPO	OR	ON	2014/07/22 16:19
S173	10936	S172 and S150	US-PGPUB; USPAT; EPO	OR	ON	2014/07/22 16:19
S174	129	S173 and S166	US-PGPUB; USPAT; EPO	OR	ON	2014/07/22 16:19
S175	178	S152 S153 S154 S155 S157 S158 S163 S170 S171 S174	US-PGPUB; USPAT; EPO	OR	ON	2014/07/22 16:19
S176	178	S175	US-PGPUB; USPAT; EPO	OR	ON	2014/07/22 16:19
S177	178	S176	US-PGPUB; USPAT; EPO	OR	ON	2014/07/22 16:19
S178	2489	G05D7/0676;G05B9/02;E21B47/00;G05B2219/23472.cpc.	US-PGPUB; USPAT; EPO	OR	ON	2014/07/22 16:20
S179	645	S178 and S150	US-PGPUB; USPAT; EPO	OR	ON	2014/07/22 16:28
S180	452	S179 and (oil near2 well)	US-PGPUB; USPAT; EPO	OR	ON	2014/07/22 16:28
S182	15	S180 and (oil near2 level)	US-PGPUB; USPAT; EPO	OR	ON	2014/07/22 16:28
S183	16	S178 and S166 and S165	US-PGPUB; USPAT; EPO	OR	ON	2014/07/22 16:29
S184	204	S182 S183 S177	US-PGPUB; USPAT; EPO	OR	ON	2014/07/22 16:29
S185	23	("4007450" | "4888726" | "5560005" | "5724575" | "5828851" | "5838563" | "5845230" | "5956483" | "6000045" | "6131120" | "6263487" | "6701437" | "6799077").PN. OR ("7289994").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2015/02/23 16:41
S186	1	("20090055029").PN.	US-	OR	OFF	2015/03/06

			PGPUB; USPAT; EPO			14:23
S187	46	(US-20120316658-$ or US-20080208475-$ or US-20060271299-$ or US-20060240818-$ or US-20050092523-$ or US-20040231851-$ or US-20040088115-$ or US-20030182463-$ or US-20020169645-$ or US-20040262008-$ or US-20020112860-$ or US-20090149969-$ or US-20100147510-$ or US-20050096846-$ or US-20110231024-$ or US-20020161685-$ or US-20120310582-$ or US-20010032518-$ or US-20140163749-$ or US-20090055029-$).did. or (US-7148812-$ or US-7958938-$ or US-7967066-$ or US-7845404-$ or US-6913083-$ or US-5732776-$ or US-4052703-$ or US-8179279-$ or US-5149443-$ or US-8386059-$ or US-8131510-$ or US-7289994-$ or US-8373418-$ or US-8312320-$ or US-8290737-$ or US-7931090-$ or US-7921916-$ or US-6801135-$ or US-6061603-$ or US-6192980-$ or US-6435022-$ or US-4823749-$ or US-8208478-$ or US-7347271-$ or US-5959547-$).did. or (WO-2008124765-$).did.	US-PGPUB; USPAT; EPO	OR	ON	2015/03/06 14:45
S188	2	S187 and pid	US-PGPUB; USPAT; EPO	OR	ON	2015/03/06 14:45
S189	5307	700/1,282,275,281,42.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2015/03/06 16:10
S190	6733	702/6,13,183,188.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2015/03/06 16:10
S191	24915	709/224.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2015/03/06 16:10
S192	1044	166/336,363,250.1.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2015/03/06 16:10
S193	530	340/853.3,853.2,856.3.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2015/03/06 16:10
S194	38241	S189 S190 S191 S192 S193	US-PGPUB; USPAT; EPO	OR	ON	2015/03/06 16:10
S195	197343	(oil hydrocarbon (hydro adj2 carbon) gas) near2 (well site disposal station)	US-PGPUB; USPAT; EPO	OR	ON	2015/03/06 16:10
S196	2561451	(controller control device) near2 (operate operat$4 adjust drive move close)	US-PGPUB; USPAT; EPO	OR	ON	2015/03/06 16:10
S197	39	((AARON) near2 (PHILLIPS)).INV.	US-PGPUB; USPAT;	OR	ON	2015/03/06 16:10

			USOCR			
S198	5	((AARON) near2 (PHILLIPS)).INV.	EPO; JPO; DERWENT	OR	ON	2015/03/06 16:10
S199	2	(AMPLISINE adj2 LABS).as.	EPO; JPO; DERWENT	OR	ON	2015/03/06 16:10
S200	6	real-time and onsite and internet and communication	EPO; JPO; DERWENT	OR	ON	2015/03/06 16:10
S201	20	(US-20040262008-$ or US-20120316658-$ or US-20080208475-$ or US-20060271299-$ or US-20060240818-$ or US-20050092523-$ or US-20040231851-$ or US-20040088115-$ or US-20030182463-$ or US-20020169645-$ or US-20020112860-$).did. or (US-7148812-$ or US-7958938-$ or US-7967066-$ or US-7845404-$ or US-6913083-$ or US-5732776-$ or US-4052703-$ or US-8179279-$).did. or (WO-2008124765-$).did.	US-PGPUB; USPAT; EPO	OR	ON	2015/03/06 16:10
S202	0	S201 and (oil near2 water near2 separation)	US-PGPUB; USPAT; EPO	OR	ON	2015/03/06 16:10
S203	7	S201 and (oil near2 water)	US-PGPUB; USPAT; EPO	OR	ON	2015/03/06 16:10
S204	5538	(oil near2 water near2 separation)	US-PGPUB; USPAT; EPO	OR	ON	2015/03/06 16:10
S205	2804	S204 and pump	US-PGPUB; USPAT; EPO	OR	ON	2015/03/06 16:10
S206	1031	S205 and (oil near2 well)	US-PGPUB; USPAT; EPO	OR	ON	2015/03/06 16:10
S207	287	S206 and (oil near2 level)	US-PGPUB; USPAT; EPO	OR	ON	2015/03/06 16:10
S208	4	S207 and ("700"/$.ccls. "702"/$.ccls.)	US-PGPUB; USPAT; EPO	OR	ON	2015/03/06 16:10
S209	1822	S194 and S195	US-PGPUB; USPAT; EPO	OR	ON	2015/03/06 16:10
S210	2334181	(internet network (web adj2 server))	US-PGPUB; USPAT; EPO	OR	ON	2015/03/06 16:10
S211	19758	(local autonomous independent) near2 (controller control device) near2 (operate operat$4 adjust drive move close)	US-PGPUB; USPAT; EPO	OR	ON	2015/03/06 16:10
S212	846	S196 and S209	US-PGPUB; USPAT; EPO	OR	ON	2015/03/06 16:10

S213	432	S212 and S210	US-PGPUB; USPAT; EPO	OR	ON	2015/03/06 16:10
S214	411	S195 and S211	US-PGPUB; USPAT; EPO	OR	ON	2015/03/06 16:10
S215	10	S213 and S214	US-PGPUB; USPAT; EPO	OR	ON	2015/03/06 16:10
S216	17	S195 and S211 and S194	US-PGPUB; USPAT; EPO	OR	ON	2015/03/06 16:10
S217	652812	(remote internet network) near2 (control monitor control$4 monitor$4 command)	US-PGPUB; USPAT; EPO	OR	ON	2015/03/06 16:10
S218	11860	S217 and S195	US-PGPUB; USPAT; EPO	OR	ON	2015/03/06 16:10
S219	139	S218 and S211	US-PGPUB; USPAT; EPO	OR	ON	2015/03/06 16:10
S220	192	S197 S198 S199 S200 S202 S203 S208 S215 S216 S219	US-PGPUB; USPAT; EPO	OR	ON	2015/03/06 16:10
S221	192	S220	US-PGPUB; USPAT; EPO	OR	ON	2015/03/06 16:10
S222	192	S221	US-PGPUB; USPAT; EPO	OR	ON	2015/03/06 16:10
S223	2737	G05D7/0676;G05B9/02;E21B47/00;G05B2219/23472.cpc.	US-PGPUB; USPAT; EPO	OR	ON	2015/03/06 16:10
S224	706	S223 and S195	US-PGPUB; USPAT; EPO	OR	ON	2015/03/06 16:10
S225	492	S224 and (oil near2 well)	US-PGPUB; USPAT; EPO	OR	ON	2015/03/06 16:10
S226	16	S225 and (oil near2 level)	US-PGPUB; USPAT; EPO	OR	ON	2015/03/06 16:10
S227	16	S223 and S211 and S210	US-PGPUB; USPAT; EPO	OR	ON	2015/03/06 16:10

S228	219	S226 S227 S222	US-PGPUB; USPAT; EPO	OR	ON	2015/03/06 16:10
S229	219	S228	US-PGPUB; USPAT; EPO	OR	ON	2015/03/06 16:10
S230	5577	700/1,282,275,281,42.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2015/09/21 08:46
S231	6864	702/6,13,183,188.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2015/09/21 08:46
S232	25873	709/224.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2015/09/21 08:46
S233	1107	166/336,363,250.1.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2015/09/21 08:46
S234	547	340/853.3,853.2,856.3.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2015/09/21 08:46
S235	39674	S230 S231 S232 S233 S234	US-PGPUB; USPAT; EPO	OR	ON	2015/09/21 08:46
S236	205047	(oil hydrocarbon (hydro adj2 carbon) gas) near2 (well site disposal station)	US-PGPUB; USPAT; EPO	OR	ON	2015/09/21 08:46
S237	2685982	(controller control device) near2 (operate operat$4 adjust drive move close)	US-PGPUB; USPAT; EPO	OR	ON	2015/09/21 08:46
S238	43	((AARON) near2 (PHILLIPS)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2015/09/21 08:46
S239	5	((AARON) near2 (PHILLIPS)).INV.	EPO; JPO; DERWENT	OR	ON	2015/09/21 08:46
S240	3	(AMPLISINE adj2 LABS).as.	EPO; JPO; DERWENT	OR	ON	2015/09/21 08:46
S241	6	real-time and onsite and internet and communication	EPO; JPO; DERWENT	OR	ON	2015/09/21 08:46
S242	20	(US-20040262008-$ or US-20120316658-$ or US-20080208475-$ or US-20060271299-$ or US-20060240818-$ or US-20050092523-$ or US-20040231851-$ or US-20040088115-$ or US-20030182463-$ or US-20020169645-$ or US-20020112860-$).did. or (US-7148812-$ or US-7958938-$ or US-7967066-$ or US-7845404-$ or US-6913083-$ or US-5732776-$ or US-4052703-$ or US-8179279-$).did. or (WO-2008124765-$).did.	US-PGPUB; USPAT; EPO	OR	ON	2015/09/21 08:46
S243	0	S242 and (oil near2 water near2 separation)	US-	OR	ON	2015/09/21

			PGPUB; USPAT; EPO			08:46
S244	7	S242 and (oil near2 water)	US-PGPUB; USPAT; EPO	OR	ON	2015/09/21 08:46
S245	5794	(oil near2 water near2 separation)	US-PGPUB; USPAT; EPO	OR	ON	2015/09/21 08:46
S246	2926	S245 and pump	US-PGPUB; USPAT; EPO	OR	ON	2015/09/21 08:46
S247	1087	S246 and (oil near2 well)	US-PGPUB; USPAT; EPO	OR	ON	2015/09/21 08:46
S248	297	S247 and (oil near2 level)	US-PGPUB; USPAT; EPO	OR	ON	2015/09/21 08:46
S249	4	S248 and ("700"/$.ccls. "702"/$.ccls.)	US-PGPUB; USPAT; EPO	OR	ON	2015/09/21 08:46
S250	1898	S235 and S236	US-PGPUB; USPAT; EPO	OR	ON	2015/09/21 08:46
S251	2471267	(internet network (web adj2 server))	US-PGPUB; USPAT; EPO	OR	ON	2015/09/21 08:46
S252	21038	(local autonomous independent) near2 (controller control device) near2 (operate operat$4 adjust drive move close)	US-PGPUB; USPAT; EPO	OR	ON	2015/09/21 08:46
S253	891	S237 and S250	US-PGPUB; USPAT; EPO	OR	ON	2015/09/21 08:46
S254	452	S253 and S251	US-PGPUB; USPAT; EPO	OR	ON	2015/09/21 08:46
S255	430	S236 and S252	US-PGPUB; USPAT; EPO	OR	ON	2015/09/21 08:46
S256	10	S254 and S255	US-PGPUB; USPAT; EPO	OR	ON	2015/09/21 08:46
S257	17	S236 and S252 and S235	US-PGPUB; USPAT; EPO	OR	ON	2015/09/21 08:46
S258	692562	(remote internet network) near2 (control monitor	US-	OR	ON	2015/09/21

		control$4 monitor$4 command)	PGPUB; USPAT; EPO			08:46
S259	12566	S258 and S236	US-PGPUB; USPAT; EPO	OR	ON	2015/09/21 08:46
S260	153	S259 and S252	US-PGPUB; USPAT; EPO	OR	ON	2015/09/21 08:46
S261	210	S238 S239 S240 S241 S243 S244 S249 S256 S257 S260	US-PGPUB; USPAT; EPO	OR	ON	2015/09/21 08:46
S262	210	S261	US-PGPUB; USPAT; EPO	OR	ON	2015/09/21 08:46
S263	210	S262	US-PGPUB; USPAT; EPO	OR	ON	2015/09/21 08:46
S264	2965	G05D7/0676;G05B9/02;E21B47/00;G05B2219/23472.cpc.	US-PGPUB; USPAT; EPO	OR	ON	2015/09/21 08:46
S265	752	S264 and S236	US-PGPUB; USPAT; EPO	OR	ON	2015/09/21 08:46
S266	523	S265 and (oil near2 well)	US-PGPUB; USPAT; EPO	OR	ON	2015/09/21 08:46
S267	16	S266 and (oil near2 level)	US-PGPUB; USPAT; EPO	OR	ON	2015/09/21 08:46
S268	18	S264 and S252 and S251	US-PGPUB; USPAT; EPO	OR	ON	2015/09/21 08:46
S269	239	S267 S268 S263	US-PGPUB; USPAT; EPO	OR	ON	2015/09/21 08:46
S270	239	S269	US-PGPUB; USPAT; EPO	OR	ON	2015/09/21 08:46
S271	239	S270	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2015/09/21 08:46
S276	6137	700/1,282,275,281,42.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2016/12/07 16:13

S277	7043	702/6,13,183,188.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2016/12/07 16:13
S278	26619	709/224.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2016/12/07 16:13
S279	1160	166/336,363,250.1.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2016/12/07 16:13
S280	554	340/853.3,853.2,856.3.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2016/12/07 16:13
S281	41214	S276 S277 S278 S279 S280	US-PGPUB; USPAT; EPO	OR	ON	2016/12/07 16:13
S282	223345	(oil hydrocarbon (hydro adj2 carbon) gas) near2 (well site disposal station)	US-PGPUB; USPAT; EPO	OR	ON	2016/12/07 16:13
S283	2986529	(controller control device) near2 (operate operat$4 adjust drive move close)	US-PGPUB; USPAT; EPO	OR	ON	2016/12/07 16:13
S284	60	((AARON) near2 (PHILLIPS)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2016/12/07 16:13
S285	5	((AARON) near2 (PHILLIPS)).INV.	EPO; JPO; DERWENT	OR	ON	2016/12/07 16:13
S286	7	(AMPLISINE adj2 LABS).as.	EPO; JPO; DERWENT	OR	ON	2016/12/07 16:13
S287	7	real-time and onsite and internet and communication	EPO; JPO; DERWENT	OR	ON	2016/12/07 16:13
S288	20	(US-20040262008-$ or US-20120316658-$ or US-20080208475-$ or US-20060271299-$ or US-20060240818-$ or US-20050092523-$ or US-20040231851-$ or US-20040088115-$ or US-20030182463-$ or US-20020169645-$ or US-20020112860-$).did. or (US-7148812-$ or US-7958938-$ or US-7967066-$ or US-7845404-$ or US-6913083-$ or US-5732776-$ or US-4052703-$ or US-8179279-$).did. or (WO-2008124765-$).did.	US-PGPUB; USPAT; EPO	OR	ON	2016/12/07 16:13
S289	0	S288 and (oil near2 water near2 separation)	US-PGPUB; USPAT; EPO	OR	ON	2016/12/07 16:13
S290	7	S288 and (oil near2 water)	US-PGPUB; USPAT; EPO	OR	ON	2016/12/07 16:13
S291	6407	(oil near2 water near2 separation)	US-PGPUB; USPAT; EPO	OR	ON	2016/12/07 16:13
S292	3258	S291 and pump	US-	OR	ON	2016/12/07

			PGPUB; USPAT; EPO			16:13
S293	1220	S292 and (oil near2 well)	US-PGPUB; USPAT; EPO	OR	ON	2016/12/07 16:13
S294	338	S293 and (oil near2 level)	US-PGPUB; USPAT; EPO	OR	ON	2016/12/07 16:13
S295	6	S294 and ("700"/$.ccls. "702"/$.ccls.)	US-PGPUB; USPAT; EPO	OR	ON	2016/12/07 16:13
S296	2046	S281 and S282	US-PGPUB; USPAT; EPO	OR	ON	2016/12/07 16:13
S297	2802086	(internet network (web adj2 server))	US-PGPUB; USPAT; EPO	OR	ON	2016/12/07 16:13
S298	24197	(local autonomous independent) near2 (controller control device) near2 (operate operat$4 adjust drive move close)	US-PGPUB; USPAT; EPO	OR	ON	2016/12/07 16:13
S299	976	S283 and S296	US-PGPUB; USPAT; EPO	OR	ON	2016/12/07 16:13
S300	511	S299 and S297	US-PGPUB; USPAT; EPO	OR	ON	2016/12/07 16:13
S301	499	S282 and S298	US-PGPUB; USPAT; EPO	OR	ON	2016/12/07 16:13
S302	15	S300 and S301	US-PGPUB; USPAT; EPO	OR	ON	2016/12/07 16:13
S303	22	S282 and S298 and S281	US-PGPUB; USPAT; EPO	OR	ON	2016/12/07 16:13
S304	788452	(remote internet network) near2 (control monitor control$4 monitor$4 command)	US-PGPUB; USPAT; EPO	OR	ON	2016/12/07 16:13
S305	14396	S304 and S282	US-PGPUB; USPAT; EPO	OR	ON	2016/12/07 16:13
S306	185	S305 and S298	US-PGPUB; USPAT; EPO	OR	ON	2016/12/07 16:13
S307	262	S284 S285 S286 S287 S289 S290 S295 S302 S303 S306	US-	OR	ON	2016/12/07

			PGPUB; USPAT; EPO			16:13
S308	262	S307	US-PGPUB; USPAT; EPO	OR	ON	2016/12/07 16:13
S309	262	S308	US-PGPUB; USPAT; EPO	OR	ON	2016/12/07 16:13
S310	3692	G05D7/0676;G05B9/02;E21B47/00;G05B2219/23472.cpc.	US-PGPUB; USPAT; EPO	OR	ON	2016/12/07 16:13
S311	1005	S310 and S282	US-PGPUB; USPAT; EPO	OR	ON	2016/12/07 16:13
S312	680	S311 and (oil near2 well)	US-PGPUB; USPAT; EPO	OR	ON	2016/12/07 16:13
S313	20	S312 and (oil near2 level)	US-PGPUB; USPAT; EPO	OR	ON	2016/12/07 16:13
S314	22	S310 and S298 and S297	US-PGPUB; USPAT; EPO	OR	ON	2016/12/07 16:13
S315	293	S313 S314 S309	US-PGPUB; USPAT; EPO	OR	ON	2016/12/07 16:13
S316	293	S315	US-PGPUB; USPAT; EPO	OR	ON	2016/12/07 16:13
S317	293	S316	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2016/12/07 16:13
S318	293	S317	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2016/12/07 16:13
S319	81003	(G05D7/0676 or H04L67/02 or G05B19/0428 or G06F3/0484 or E21B47/00 or G05B9/02 or G05B2219/24015 or G05B2219/25204 or G05B2219/31369 or G05B2219/23472).cpc.	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2016/12/07 16:13
S320	46	(US-20040262008-$ or US-20020161685-$ or US-20090055029-$ or US-20120316658-$ or US-20080208475-$ or US-20060271299-$ or US-20060240818-$ or US-20050092523-$ or US-20040231851-$ or US-20040088115-$ or US-20030182463-$ or US-20020169645-$ or US-20020112860-$ or US-20090149969-$ or US-	US-PGPUB; USPAT; EPO	OR	ON	2016/12/07 16:13

		20100147510-$ or US-20050096846-$ or US-20110231024-$ or US-20120310582-$ or US-20010032518-$ or US-20140163749-$).did. or (US-7289994-$ or US-6801135-$ or US-7148812-$ or US-7958938-$ or US-7967066-$ or US-7845404-$ or US-6913083-$ or US-5732776-$ or US-4052703-$ or US-8179279-$ or US-5149443-$ or US-8386059-$ or US-8131510-$ or US-8373418-$ or US-8312320-$ or US-8290737-$ or US-7931090-$ or US-7921916-$ or US-6061603-$ or US-6192980-$ or US-6435022-$ or US-4823749-$ or US-8208478-$ or US-7347271-$ or US-5959547-$).did. or (WO-2008124765-$).did.				
S321	4	S320 and (network adj2 (address addresses))	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2016/12/07 16:19
S322	2	("20020018399").PN.	US-PGPUB; USPAT; FPRS; EPO	OR	OFF	2016/12/07 16:26
S323	13	("5941305" | "5959547" | "5978749" | "6061603" | "6670880").PN. OR ("6801135").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2016/12/07 16:27
S324	47	(US-20120316658-$ or US-20080208475-$ or US-20060271299-$ or US-20060240818-$ or US-20050092523-$ or US-20040231851-$ or US-20040088115-$ or US-20030182463-$ or US-20020169645-$ or US-20040262008-$ or US-20020112860-$ or US-20090149969-$ or US-20100147510-$ or US-20050096846-$ or US-20110231024-$ or US-20020161685-$ or US-20120310582-$ or US-20010032518-$ or US-20140163749-$ or US-20090055029-$ or US-20020018399-$).did. or (US-7148812-$ or US-7958938-$ or US-7967066-$ or US-7845404-$ or US-6913083-$ or US-5732776-$ or US-4052703-$ or US-8179279-$ or US-5149443-$ or US-8386059-$ or US-8131510-$ or US-7289994-$ or US-8373418-$ or US-8312320-$ or US-8290737-$ or US-7931090-$ or US-7921916-$ or US-6061603-$ or US-6192980-$ or US-6435022-$ or US-4823749-$ or US-8208478-$ or US-7347271-$ or US-5959547-$ or US-5941305-$).did. or (WO-2008124765-$).did.	US-PGPUB; USPAT; EPO	OR	ON	2016/12/07 16:28
S325	29	S324 and (cell cellular wireless)	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2016/12/07 16:28
S326	12	S325 and (web html)	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2016/12/07 16:29
S327	2	("7096092").PN.	US-PGPUB; USPAT; FPRS; EPO	OR	OFF	2016/12/07 16:29
S328	1	("6967589").PN.	US-PGPUB;	OR	OFF	2016/12/07 16:31

			USPAT; FPRS; EPO			
S329	91	("5438329" | "5717718" | "5963650" | "6062095" | "6169488" | "6305471" | "6356205" | "6369715" | "6574652" | "6693553" | "6795319").PN. OR ("6967589").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2016/12/07 16:32
S330	47	S329 and (cell cellular wireless)	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2016/12/07 16:33
S331	23	S330 and (web html)	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2016/12/07 16:33
S332	2	("20090055029").PN.	US-PGPUB; USPAT; FPRS; EPO	OR	OFF	2016/12/07 16:34
S333	2	("20100033318").PN.	US-PGPUB; USPAT; FPRS; EPO	OR	OFF	2016/12/07 16:35
S334	51	(US-20120316658-$ or US-20080208475-$ or US-20060271299-$ or US-20060240818-$ or US-20050092523-$ or US-20040231851-$ or US-20040088115-$ or US-20030182463-$ or US-20020169645-$ or US-20040262008-$ or US-20020112860-$ or US-20090149969-$ or US-20100147510-$ or US-20050096846-$ or US-20110231024-$ or US-20020161685-$ or US-20120310582-$ or US-20010032518-$ or US-20140163749-$ or US-20090055029-$ or US-20020018399-$ or US-20100033318-$).did. or (US-7148812-$ or US-7958938-$ or US-7967066-$ or US-7845404-$ or US-6913083-$ or US-5732776-$ or US-4052703-$ or US-8179279-$ or US-5149443-$ or US-8386059-$ or US-8131510-$ or US-7289994-$ or US-8373418-$ or US-8312320-$ or US-8290737-$ or US-7931090-$ or US-7921916-$ or US-6061603-$ or US-6192980-$ or US-6435022-$ or US-4823749-$ or US-8208478-$ or US-7347271-$ or US-5959547-$ or US-5941305-$ or US-7096092-$).did. or (US-6967589-$ or US-6356205-$).did. or (WO-2008124765-$).did.	US-PGPUB; USPAT; EPO	OR	ON	2016/12/08 12:05
S335	20	S334 and (cell cellular)	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2016/12/08 12:05
S336	13	S335 and (address addresses)	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2016/12/08 12:22
S337	48	(US-20120029661-$ or US-20080077512-$ or US-20100179669-$ or US-20040125141-$ or US-20040075689-$ or US-20040064205-$ or US-20120041570-$ or US-20050027377-$ or US-	US-PGPUB; USPAT	OR	ON	2016/12/08 12:28

		20050027376-$ or US-20110173556-$ or US-20080208380-$ or US-20070179641-$ or US-20050120288-$ or US-20040186927-$ or US-20030233438-$ or US-20030225650-$ or US-20030107591-$ or US-20090327942-$ or US-20080189638-$ or US-20080125877-$ or US-20080065706-$ or US-20080034047-$ or US-20070239291-$).did. or (US-6931288-$ or US-7515977-$ or US-8677262-$ or US-8533619-$ or US-8356257-$ or US-7680546-$ or US-7526794-$ or US-6889096-$ or US-8516383-$ or US-7971151-$ or US-7783370-$ or US-7729792-$ or US-7526347-$ or US-7152072-$ or US-7117052-$ or US-7043311-$ or US-6834370-$ or US-6735596-$ or US-6442512-$ or US-6434500-$ or US-5631825-$ or US-6445963-$ or US-6522934-$ or US-6247020-$).did.				
S338	24	S337 and (address addresses)	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2016/12/08 13:31
S339	17	S337 and (cell cellular)	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2016/12/08 13:31
S340	13	S338 and S339	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2016/12/08 13:32
S341	2230	(web html) near4 (control controlling) near4 (actuator controller valve)	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2016/12/08 13:48
S342	6137	700/1,282,275,281,42.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2016/12/08 13:48
S343	7043	702/6,13,183,188.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2016/12/08 13:48
S344	26619	709/224.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2016/12/08 13:48
S345	1160	166/336,363,250.1.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2016/12/08 13:48
S346	554	340/853.3,853.2,856.3.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2016/12/08 13:48
S347	41214	S342 S343 S344 S345 S346	US-PGPUB; USPAT; EPO	OR	ON	2016/12/08 13:48
S348	81068	(G05D7/0676 or H04L67/02 or G05B19/0428 or	US-	OR	ON	2016/12/08

		G06F3/0484 or E21B47/00 or G05B9/02 or G05B2219/24015 or G05B2219/25204 or G05B2219/31369 or G05B2219/23472).cpc.	PGPUB; USPAT; FPRS; EPO			13:48
S349	120388	S348 S347	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2016/12/08 13:48
S350	155	S341 and 700/$.ccls.	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2016/12/08 13:49
S351	145	S349 and S341	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2016/12/08 13:53
S352	387	((web html) near4 (control controlling) near4 (actuator controller valve)).ab.	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2016/12/08 13:53
S353	20	S349 and S352	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2016/12/08 13:54
S354	19	S352 and 700/$.ccls.	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2016/12/08 13:54
S355	34	S353 S354	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2016/12/08 13:54
S356	2	("20020018399").PN.	US-PGPUB; USPAT; FPRS; EPO	OR	OFF	2016/12/08 14:01
S357	1	("5805926").PN.	US-PGPUB; USPAT; FPRS; EPO	OR	OFF	2016/12/09 08:48
S358	2	("20030052180").PN.	US-PGPUB; USPAT; FPRS; EPO	OR	OFF	2016/12/09 08:55
S359	1	("6967589").PN.	US-PGPUB; USPAT; FPRS; EPO	OR	OFF	2016/12/09 10:24
S360	54	(US-20120316658-$ or US-20080208475-$ or US-20060271299-$ or US-20060240818-$ or US-	US-PGPUB;	OR	ON	2016/12/09 11:51

		20050092523-$ or US-20040231851-$ or US-20040088115-$ or US-20030182463-$ or US-20020169645-$ or US-20040262008-$ or US-20020112860-$ or US-20090149969-$ or US-20100147510-$ or US-20050096846-$ or US-20110231024-$ or US-20020161685-$ or US-20120310582-$ or US-20010032518-$ or US-20140163749-$ or US-20090055029-$ or US-20020018399-$ or US-20100033318-$ or US-20080077512-$ or US-20030052180-$).did. or (US-7148812-$ or US-7958938-$ or US-7967066-$ or US-7845404-$ or US-6913083-$ or US-5732776-$ or US-4052703-$ or US-8179279-$ or US-5149443-$ or US-8386059-$ or US-8131510-$ or US-7289994-$ or US-8373418-$ or US-8312320-$ or US-8290737-$ or US-7931090-$ or US-7921916-$ or US-6061603-$ or US-6192980-$ or US-6435022-$ or US-4823749-$ or US-8208478-$ or US-7347271-$ or US-5959547-$ or US-5941305-$ or US-7096092-$).did. or (US-6967589-$ or US-6356205-$ or US-5805926-$).did. or (WO-2008124765-$).did.	USPAT; EPO			
S361	2	S360 and thread	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2016/12/09 11:51
S362	2	S360 and (leak adj4 sensor)	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2016/12/09 11:51
S363	8	S360 and (private)	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2016/12/09 11:52
S364	6	S360 and (carrier)	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2016/12/09 11:52
S365	2	S360 and (validity)	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2016/12/09 11:52
S366	1	("20020156837").PN.	US-PGPUB; USPAT; FPRS; EPO	OR	OFF	2016/12/09 12:11
S367	1	("6799195").PN.	US-PGPUB; USPAT; FPRS; EPO	OR	OFF	2016/12/09 12:15
S368	2	("20110051645").PN.	US-PGPUB; USPAT; FPRS; EPO	OR	OFF	2016/12/09 12:34
S369	3	("5546301").PN.	US-	OR	OFF	2016/12/09

			PGPUB; USPAT; FPRS; EPO			12:55
S370	127	("5247447" | "5272642" | "5353229").PN. OR ("5546301").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2016/12/09 12:55
S371	21	S370 and thread	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2016/12/09 12:55
S372	38793	(thread near4 (actuator sensor gui synchronize data))	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2016/12/09 13:00
S373	6873	(thread near4 (actuator sensor gui synchronize data)).ab.	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2016/12/09 13:00
S374	6416	(thread near4 (actuator sensor gui synchronize data)).clm.	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2016/12/09 13:00
S375	38793	S372 S373 S374	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2016/12/09 13:00
S376	11652	S373 S374	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2016/12/09 13:01
S377	625	S375 and 700/$.ccls.	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2016/12/09 13:01
S378	157	S376 and 700/$.ccls.	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2016/12/09 13:01
S379	0	(thread near4 (actuator and sensor and synchronize and data))	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2016/12/09 13:02
S380	144	(thread near4 (actuator and sensor))	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2016/12/09 13:02
S381	10	S380 and 700/$.ccls.	US-PGPUB; USPAT;	OR	ON	2016/12/09 13:02

			FPRS; EPO			
S382	10	("6249241" | "5819271" | "6810386" | "5805082" | "5875305" | "6208938").PN.	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2017/03/23 12:39
S383	1	("6665568").PN.	US-PGPUB; USPAT; FPRS; EPO	OR	OFF	2017/03/23 14:01
S384	10	("5973696" | "5982362" | "6138150" | "6170007" | "6201996" | "6311101").PN. OR ("6665568").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2017/03/23 14:15
S385	6148	700/1,282,275,281,42.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2017/03/23 14:18
S386	7044	702/6,13,183,188.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2017/03/23 14:18
S387	26644	709/224.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2017/03/23 14:18
S388	1160	166/336,363,250.1.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2017/03/23 14:18
S389	554	340/853.3,853.2,856.3.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2017/03/23 14:18
S390	41251	S385 S386 S387 S388 S389	US-PGPUB; USPAT; EPO	OR	ON	2017/03/23 14:18
S391	227637	(oil hydrocarbon (hydro adj2 carbon) gas) near2 (well site disposal station)	US-PGPUB; USPAT; EPO	OR	ON	2017/03/23 14:18
S392	3060500	(controller control device) near2 (operate operat$4 adjust drive move close)	US-PGPUB; USPAT; EPO	OR	ON	2017/03/23 14:18
S393	62	((AARON) near2 (PHILLIPS)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2017/03/23 14:18
S394	5	((AARON) near2 (PHILLIPS)).INV.	EPO; JPO; DERWENT	OR	ON	2017/03/23 14:18
S395	9	(AMPLISINE adj2 LABS).as.	EPO; JPO; DERWENT	OR	ON	2017/03/23 14:18
S396	8	real-time and onsite and internet and communication	EPO; JPO; DERWENT	OR	ON	2017/03/23 14:18
S397	20	(US-20040262008-$ or US-20120316658-$ or US-	US-	OR	ON	2017/03/23

		20080208475-$ or US-20060271299-$ or US-20060240818-$ or US-20050092523-$ or US-20040231851-$ or US-20040088115-$ or US-20030182463-$ or US-20020169645-$ or US-20020112860-$).did. or (US-7148812-$ or US-7958938-$ or US-7967066-$ or US-7845404-$ or US-6913083-$ or US-5732776-$ or US-4052703-$ or US-8179279-$).did. or (WO-2008124765-$).did.	PGPUB; USPAT; EPO			14:18
S398	0	S397 and (oil near2 water near2 separation)	US-PGPUB; USPAT; EPO	OR	ON	2017/03/23 14:18
S399	7	S397 and (oil near2 water)	US-PGPUB; USPAT; EPO	OR	ON	2017/03/23 14:18
S400	6555	(oil near2 water near2 separation)	US-PGPUB; USPAT; EPO	OR	ON	2017/03/23 14:18
S401	3329	S400 and pump	US-PGPUB; USPAT; EPO	OR	ON	2017/03/23 14:18
S402	1245	S401 and (oil near2 well)	US-PGPUB; USPAT; EPO	OR	ON	2017/03/23 14:18
S403	342	S402 and (oil near2 level)	US-PGPUB; USPAT; EPO	OR	ON	2017/03/23 14:18
S404	6	S403 and ("700"/$.ccls. "702"/$.ccls.)	US-PGPUB; USPAT; EPO	OR	ON	2017/03/23 14:18
S405	2046	S390 and S391	US-PGPUB; USPAT; EPO	OR	ON	2017/03/23 14:18
S406	2883167	(internet network (web adj2 server))	US-PGPUB; USPAT; EPO	OR	ON	2017/03/23 14:18
S407	24993	(local autonomous independent) near2 (controller control device) near2 (operate operat$4 adjust drive move close)	US-PGPUB; USPAT; EPO	OR	ON	2017/03/23 14:18
S408	976	S392 and S405	US-PGPUB; USPAT; EPO	OR	ON	2017/03/23 14:18
S409	511	S408 and S406	US-PGPUB; USPAT; EPO	OR	ON	2017/03/23 14:18
S410	514	S391 and S407	US-PGPUB; USPAT; EPO	OR	ON	2017/03/23 14:18

S411	15	S409 and S410	US-PGPUB; USPAT; EPO	OR	ON	2017/03/23 14:18
S412	22	S391 and S407 and S390	US-PGPUB; USPAT; EPO	OR	ON	2017/03/23 14:18
S413	812457	(remote internet network) near2 (control monitor control$4 monitor$4 command)	US-PGPUB; USPAT; EPO	OR	ON	2017/03/23 14:18
S414	14890	S413 and S391	US-PGPUB; USPAT; EPO	OR	ON	2017/03/23 14:18
S415	190	S414 and S407	US-PGPUB; USPAT; EPO	OR	ON	2017/03/23 14:18
S416	269	S393 S394 S395 S396 S398 S399 S404 S411 S412 S415	US-PGPUB; USPAT; EPO	OR	ON	2017/03/23 14:18
S417	3859	G05D7/0676;G05B9/02;E21B47/00;G05B2219/23472.cpc.	US-PGPUB; USPAT; EPO	OR	ON	2017/03/23 14:18
S418	22	S417 and S407 and S406	US-PGPUB; USPAT; EPO	OR	ON	2017/03/23 14:18
S419	46	(US-20040262008-$ or US-20020161685-$ or US-20090055029-$ or US-20120316658-$ or US-20080208475-$ or US-20060271299-$ or US-20060240818-$ or US-20050092523-$ or US-20040231851-$ or US-20040088115-$ or US-20030182463-$ or US-20020169645-$ or US-20020112860-$ or US-20090149969-$ or US-20100147510-$ or US-20050096846-$ or US-20110231024-$ or US-20120310582-$ or US-20010032518-$ or US-20140163749-$).did. or (US-7289994-$ or US-6801135-$ or US-7148812-$ or US-7958938-$ or US-7967066-$ or US-7845404-$ or US-6913083-$ or US-5732776-$ or US-4052703-$ or US-8179279-$ or US-5149443-$ or US-8386059-$ or US-8131510-$ or US-8373418-$ or US-8312320-$ or US-8290737-$ or US-7931090-$ or US-7921916-$ or US-6061603-$ or US-6192980-$ or US-6435022-$ or US-4823749-$ or US-8208478-$ or US-7347271-$ or US-5959547-$).did. or (WO-2008124765-$).did.	US-PGPUB; USPAT; EPO	OR	ON	2017/03/23 14:18
S420	4	S419 and (network adj2 (address addresses))	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2017/03/23 14:18
S421	47	(US-20120316658-$ or US-20080208475-$ or US-20060271299-$ or US-20060240818-$ or US-20050092523-$ or US-20040231851-$ or US-20040088115-$ or US-20030182463-$ or US-20020169645-$ or US-20040262008-$ or US-20020112860-$ or US-20090149969-$ or US-	US-PGPUB; USPAT; EPO	OR	ON	2017/03/23 14:18

		20100147510-$ or US-20050096846-$ or US-20110231024-$ or US-20020161685-$ or US-20120310582-$ or US-20010032518-$ or US-20140163749-$ or US-20090055029-$ or US-20020018399-$).did. or (US-7148812-$ or US-7958938-$ or US-7967066-$ or US-7845404-$ or US-6913083-$ or US-5732776-$ or US-4052703-$ or US-8179279-$ or US-5149443-$ or US-8386059-$ or US-8131510-$ or US-7289994-$ or US-8373418-$ or US-8312320-$ or US-8290737-$ or US-7931090-$ or US-7921916-$ or US-6061603-$ or US-6192980-$ or US-6435022-$ or US-4823749-$ or US-8208478-$ or US-7347271-$ or US-5959547-$ or US-5941305-$).did. or (WO-2008124765-$).did.				
S422	29	S421 and (cell cellular wireless)	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2017/03/23 14:18
S423	12	S422 and (web html)	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2017/03/23 14:18
S424	51	(US-20120316658-$ or US-20080208475-$ or US-20060271299-$ or US-20060240818-$ or US-20050092523-$ or US-20040231851-$ or US-20040088115-$ or US-20030182463-$ or US-20020169645-$ or US-20040262008-$ or US-20020112860-$ or US-20090149969-$ or US-20100147510-$ or US-20050096846-$ or US-20110231024-$ or US-20020161685-$ or US-20120310582-$ or US-20010032518-$ or US-20140163749-$ or US-20090055029-$ or US-20020018399-$ or US-20100033318-$).did. or (US-7148812-$ or US-7958938-$ or US-7967066-$ or US-7845404-$ or US-6913083-$ or US-5732776-$ or US-4052703-$ or US-8179279-$ or US-5149443-$ or US-8386059-$ or US-8131510-$ or US-7289994-$ or US-8373418-$ or US-8312320-$ or US-8290737-$ or US-7931090-$ or US-7921916-$ or US-6061603-$ or US-6192980-$ or US-6435022-$ or US-4823749-$ or US-8208478-$ or US-7347271-$ or US-5959547-$ or US-5941305-$ or US-7096092-$).did. or (US-6967589-$ or US-6356205-$).did. or (WO-2008124765-$).did.	US-PGPUB; USPAT; EPO	OR	ON	2017/03/23 14:18
S425	20	S424 and (cell cellular)	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2017/03/23 14:18
S426	48	(US-20120029661-$ or US-20080077512-$ or US-20100179669-$ or US-20040125141-$ or US-20040075689-$ or US-20040064205-$ or US-20120041570-$ or US-20050027377-$ or US-20050027376-$ or US-20110173556-$ or US-20080208380-$ or US-20070179641-$ or US-20050120288-$ or US-20040186927-$ or US-20030233438-$ or US-20030225650-$ or US-20030107591-$ or US-20090327942-$ or US-20080189638-$ or US-20080125877-$ or US-20080065706-$ or US-20080065705-$ or US-20080034047-$ or US-20070239291-$).did. or (US-6931288-$ or US-7515977-$ or US-8677262-$ or US-8533619-$ or US-8356257-$ or US-7680546-$ or US-	US-PGPUB; USPAT	OR	ON	2017/03/23 14:18

		7526794-$ or US-6889096-$ or US-8516383-$ or US-7971151-$ or US-7783370-$ or US-7729792-$ or US-7526347-$ or US-7152072-$ or US-7117052-$ or US-7043311-$ or US-6834370-$ or US-6735596-$ or US-6442512-$ or US-6434500-$ or US-5631825-$ or US-6445963-$ or US-6522934-$ or US-6247020-$).did.				
S427	24	S426 and (address addresses)	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2017/03/23 14:18
S428	17	S426 and (cell cellular)	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2017/03/23 14:18
S429	13	S427 and S428	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2017/03/23 14:18
S430	6148	700/1,282,275,281,42.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2017/03/23 14:18
S431	7044	702/6,13,183,188.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2017/03/23 14:18
S432	26644	709/224.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2017/03/23 14:18
S433	1160	166/336,363,250.1.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2017/03/23 14:18
S434	554	340/853.3,853.2,856.3.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2017/03/23 14:18
S435	41251	S430 S431 S432 S433 S434	US-PGPUB; USPAT; EPO	OR	ON	2017/03/23 14:18
S436	86021	(G05D7/0676 or H04L67/02 or G05B19/0428 or G06F3/0484 or E21B47/00 or G05B9/02 or G05B2219/24015 or G05B2219/25204 or G05B2219/31369 or G05B2219/23472).cpc.	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2017/03/23 14:18
S437	125354	S436 S435	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2017/03/23 14:18
S438	394	((web html) near4 (control controlling) near4 (actuator controller valve)).ab.	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2017/03/23 14:18
S439	20	S437 and S438	US-	OR	ON	2017/03/23

			PGPUB; USPAT; FPRS; EPO			14:18
S440	19	S438 and 700/$.ccls.	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2017/03/23 14:18
S441	34	S439 S440	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2017/03/23 14:18
S442	54	(US-20120316658-$ or US-20080208475-$ or US-20060271299-$ or US-20060240818-$ or US-20050092523-$ or US-20040231851-$ or US-20040088115-$ or US-20030182463-$ or US-20020169645-$ or US-20040262008-$ or US-20020112860-$ or US-20090149969-$ or US-20100147510-$ or US-20050096846-$ or US-20110231024-$ or US-20020161685-$ or US-20120310582-$ or US-20010032518-$ or US-20140163749-$ or US-20090055029-$ or US-20020018399-$ or US-20100033318-$ or US-20080077512-$ or US-20030052180-$).did. or (US-7148812-$ or US-7958938-$ or US-7967066-$ or US-7845404-$ or US-6913083-$ or US-5732776-$ or US-4052703-$ or US-8179279-$ or US-5149443-$ or US-8386059-$ or US-8131510-$ or US-7289994-$ or US-8373418-$ or US-8312320-$ or US-8290737-$ or US-7931090-$ or US-7921916-$ or US-6061603-$ or US-6192980-$ or US-6435022-$ or US-4823749-$ or US-8208478-$ or US-7347271-$ or US-5959547-$ or US-5941305-$ or US-7096092-$).did. or (US-6967589-$ or US-6356205-$ or US-5805926-$).did. or (WO-2008124765-$).did.	US-PGPUB; USPAT; EPO	OR	ON	2017/03/23 14:18
S443	2	S442 and (leak adj4 sensor)	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2017/03/23 14:18
S444	8	S442 and (private)	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2017/03/23 14:18
S445	6	S442 and (carrier)	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2017/03/23 14:18
S446	2	S442 and (validity)	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2017/03/23 14:18
S447	129	("5247447" | "5272642" | "5353229").PN. OR ("5546301").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2017/03/23 14:18
S448	21	S447 and thread	US-	OR	ON	2017/03/23

			PGPUB; USPAT; FPRS; EPO			14:18
S449	0	(thread near4 (actuator and sensor and synchronize and data))	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2017/03/23 14:18
S450	146	(thread near4 (actuator and sensor))	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2017/03/23 14:18
S451	10	S450 and 700/$.ccls.	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2017/03/23 14:18
S452	405	S416 S449 S451 S448 S443 S444 S445 S446 S441 S440 S439 S429 S428 S427 S425 S420 S422 S423 S418	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2017/03/23 14:18
S453	6153	700/1,282,275,281,42.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2017/09/26 08:06
S454	7048	702/6,13,183,188.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2017/09/26 08:06
S455	26662	709/224.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2017/09/26 08:06
S456	1163	166/336,363,250.1.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2017/09/26 08:06
S457	554	340/853.3,853.2,856.3.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2017/09/26 08:06
S458	41281	S453 S454 S455 S456 S457	US-PGPUB; USPAT; EPO	OR	ON	2017/09/26 08:06
S459	235216	(oil hydrocarbon (hydro adj2 carbon) gas) near2 (well site disposal station)	US-PGPUB; USPAT; EPO	OR	ON	2017/09/26 08:06
S460	3192542	(controller control device) near2 (operate operat$4 adjust drive move close)	US-PGPUB; USPAT; EPO	OR	ON	2017/09/26 08:06
S461	65	((AARON) near2 (PHILLIPS)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2017/09/26 08:06

S462	5	((AARON) near2 (PHILLIPS)).INV.	EPO; JPO; DERWENT	OR	ON	2017/09/26 08:06
S463	11	(AMPLISINE adj2 LABS).as.	EPO; JPO; DERWENT	OR	ON	2017/09/26 08:06
S464	8	real-time and onsite and internet and communication	EPO; JPO; DERWENT	OR	ON	2017/09/26 08:06
S465	20	(US-20040262008-$ or US-20120316658-$ or US-20080208475-$ or US-20060271299-$ or US-20060240818-$ or US-20050092523-$ or US-20040231851-$ or US-20040088115-$ or US-20030182463-$ or US-20020169645-$ or US-20020112860-$).did. or (US-7148812-$ or US-7958938-$ or US-7967066-$ or US-7845404-$ or US-6913083-$ or US-5732776-$ or US-4052703-$ or US-8179279-$).did. or (WO-2008124765-$).did.	US-PGPUB; USPAT; EPO	OR	ON	2017/09/26 08:06
S466	0	S465 and (oil near2 water near2 separation)	US-PGPUB; USPAT; EPO	OR	ON	2017/09/26 08:06
S467	7	S465 and (oil near2 water)	US-PGPUB; USPAT; EPO	OR	ON	2017/09/26 08:06
S468	6830	(oil near2 water near2 separation)	US-PGPUB; USPAT; EPO	OR	ON	2017/09/26 08:06
S469	3457	S468 and pump	US-PGPUB; USPAT; EPO	OR	ON	2017/09/26 08:06
S470	1296	S469 and (oil near2 well)	US-PGPUB; USPAT; EPO	OR	ON	2017/09/26 08:06
S471	352	S470 and (oil near2 level)	US-PGPUB; USPAT; EPO	OR	ON	2017/09/26 08:06
S472	6	S471 and ("700"/$.ccls. "702"/$.ccls.)	US-PGPUB; USPAT; EPO	OR	ON	2017/09/26 08:06
S473	2051	S458 and S459	US-PGPUB; USPAT; EPO	OR	ON	2017/09/26 08:06
S474	3028538	(internet network (web adj2 server))	US-PGPUB; USPAT; EPO	OR	ON	2017/09/26 08:06
S475	26427	(local autonomous independent) near2 (controller control device) near2 (operate operat$4 adjust drive move close)	US-PGPUB; USPAT; EPO	OR	ON	2017/09/26 08:06
S476	977	S460 and S473	US-PGPUB; USPAT; EPO	OR	ON	2017/09/26 08:06
S477	513	S476 and S474	US-	OR	ON	2017/09/26

			PGPUB; USPAT; EPO			08:06
S478	540	S459 and S475	US-PGPUB; USPAT; EPO	OR	ON	2017/09/26 08:06
S479	15	S477 and S478	US-PGPUB; USPAT; EPO	OR	ON	2017/09/26 08:06
S480	22	S459 and S475 and S458	US-PGPUB; USPAT; EPO	OR	ON	2017/09/26 08:06
S481	855191	(remote internet network) near2 (control monitor control$4 monitor$4 command)	US-PGPUB; USPAT; EPO	OR	ON	2017/09/26 08:06
S482	15715	S481 and S459	US-PGPUB; USPAT; EPO	OR	ON	2017/09/26 08:06
S483	201	S482 and S475	US-PGPUB; USPAT; EPO	OR	ON	2017/09/26 08:06
S484	283	S461 S462 S463 S464 S466 S467 S472 S479 S480 S483	US-PGPUB; USPAT; EPO	OR	ON	2017/09/26 08:06
S485	4113	G05D7/0676;G05B9/02;E21B47/00;G05B2219/23472.cpc.	US-PGPUB; USPAT; EPO	OR	ON	2017/09/26 08:06
S486	22	S485 and S475 and S474	US-PGPUB; USPAT; EPO	OR	ON	2017/09/26 08:06
S487	46	(US-20040262008-$ or US-20020161685-$ or US-20090055029-$ or US-20120316658-$ or US-20080208475-$ or US-20060271299-$ or US-20060240818-$ or US-20050092523-$ or US-20040231851-$ or US-20040088115-$ or US-20030182463-$ or US-20020169645-$ or US-20020112860-$ or US-20090149969-$ or US-20100147510-$ or US-20050096846-$ or US-20110231024-$ or US-20120310582-$ or US-20010032518-$ or US-20140163749-$).did. or (US-7289994-$ or US-6801135-$ or US-7148812-$ or US-7958938-$ or US-7967066-$ or US-7845404-$ or US-6913083-$ or US-5732776-$ or US-4052703-$ or US-8179279-$ or US-5149443-$ or US-8386059-$ or US-8131510-$ or US-8373418-$ or US-8312320-$ or US-8290737-$ or US-7931090-$ or US-7921916-$ or US-6061603-$ or US-6192980-$ or US-6435022-$ or US-4823749-$ or US-8208478-$ or US-7347271-$ or US-5959547-$).did. or (WO-2008124765-$).did.	US-PGPUB; USPAT; EPO	OR	ON	2017/09/26 08:06
S488	4	S487 and (network adj2 (address addresses))	US-PGPUB; USPAT;	OR	ON	2017/09/26 08:06

			FPRS; EPO			
S489	47	(US-20120316658-$ or US-20080208475-$ or US-20060271299-$ or US-20060240818-$ or US-20050092523-$ or US-20040231851-$ or US-20040088115-$ or US-20030182463-$ or US-20020169645-$ or US-20040262008-$ or US-20020112860-$ or US-20090149969-$ or US-20100147510-$ or US-20050096846-$ or US-20110231024-$ or US-20020161685-$ or US-20120310582-$ or US-20010032518-$ or US-20140163749-$ or US-20090055029-$ or US-20020018399-$).did. or (US-7148812-$ or US-7958938-$ or US-7967066-$ or US-7845404-$ or US-6913083-$ or US-5732776-$ or US-4052703-$ or US-8179279-$ or US-5149443-$ or US-8386059-$ or US-8131510-$ or US-7289994-$ or US-8373418-$ or US-8312320-$ or US-8290737-$ or US-7931090-$ or US-7921916-$ or US-6061603-$ or US-6192980-$ or US-6435022-$ or US-4823749-$ or US-8208478-$ or US-7347271-$ or US-5959547-$ or US-5941305-$).did. or (WO-2008124765-$).did.	US-PGPUB; USPAT; EPO	OR	ON	2017/09/26 08:06
S490	29	S489 and (cell cellular wireless)	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2017/09/26 08:06
S491	12	S490 and (web html)	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2017/09/26 08:06
S492	51	(US-20120316658-$ or US-20080208475-$ or US-20060271299-$ or US-20060240818-$ or US-20050092523-$ or US-20040231851-$ or US-20040088115-$ or US-20030182463-$ or US-20020169645-$ or US-20040262008-$ or US-20020112860-$ or US-20090149969-$ or US-20100147510-$ or US-20050096846-$ or US-20110231024-$ or US-20020161685-$ or US-20120310582-$ or US-20010032518-$ or US-20140163749-$ or US-20090055029-$ or US-20020018399-$ or US-20100033318-$).did. or (US-7148812-$ or US-7958938-$ or US-7967066-$ or US-7845404-$ or US-6913083-$ or US-5732776-$ or US-4052703-$ or US-8179279-$ or US-5149443-$ or US-8386059-$ or US-8131510-$ or US-7289994-$ or US-8373418-$ or US-8312320-$ or US-8290737-$ or US-7931090-$ or US-7921916-$ or US-6061603-$ or US-6192980-$ or US-6435022-$ or US-4823749-$ or US-8208478-$ or US-7347271-$ or US-5959547-$ or US-5941305-$ or US-7096092-$).did. or (US-6967589-$ or US-6356205-$).did. or (WO-2008124765-$).did.	US-PGPUB; USPAT; EPO	OR	ON	2017/09/26 08:06
S493	20	S492 and (cell cellular)	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2017/09/26 08:06
S494	48	(US-20120029661-$ or US-20080077512-$ or US-20100179669-$ or US-20040125141-$ or US-20040075689-$ or US-20040064205-$ or US-20120041570-$ or US-20050027377-$ or US-20050027376-$ or US-20110173556-$ or US-	US-PGPUB; USPAT	OR	ON	2017/09/26 08:06

		20080208380-$ or US-20070179641-$ or US-20050120288-$ or US-20040186927-$ or US-20030233438-$ or US-20030225650-$ or US-20030107591-$ or US-20090327942-$ or US-20080189638-$ or US-20080125877-$ or US-20080065706-$ or US-20080065705-$ or US-20080034047-$ or US-20070239291-$).did. or (US-6931288-$ or US-7515977-$ or US-8677262-$ or US-8533619-$ or US-8356257-$ or US-7680546-$ or US-7526794-$ or US-6889096-$ or US-8516383-$ or US-7971151-$ or US-7783370-$ or US-7729792-$ or US-7526347-$ or US-7152072-$ or US-7117052-$ or US-7043311-$ or US-6834370-$ or US-6735596-$ or US-6442512-$ or US-6434500-$ or US-5631825-$ or US-6445963-$ or US-6522934-$ or US-6247020-$).did.				
S495	24	S494 and (address addresses)	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2017/09/26 08:06
S496	17	S494 and (cell cellular)	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2017/09/26 08:06
S497	13	S495 and S496	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2017/09/26 08:06
S498	6153	700/1,282,275,281,42.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2017/09/26 08:06
S499	7048	702/6,13,183,188.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2017/09/26 08:06
S500	26662	709/224.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2017/09/26 08:06
S501	1163	166/336,363,250.1.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2017/09/26 08:06
S502	554	340/853.3,853.2,856.3.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2017/09/26 08:06
S503	41281	S498 S499 S500 S501 S502	US-PGPUB; USPAT; EPO	OR	ON	2017/09/26 08:06
S504	92435	(G05D7/0676 or H04L67/02 or G05B19/0428 or G06F3/0484 or E21B47/00 or G05B9/02 or G05B2219/24015 or G05B2219/25204 or G05B2219/31369 or G05B2219/23472).cpc.	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2017/09/26 08:06
S505	131779	S504 S503	US-PGPUB;	OR	ON	2017/09/26 08:06

			USPAT; FPRS; EPO			
S506	401	((web html) near4 (control controlling) near4 (actuator controller valve)).ab.	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2017/09/26 08:06
S507	21	S505 and S506	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2017/09/26 08:06
S508	19	S506 and 700/$.ccls.	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2017/09/26 08:06
S509	35	S507 S508	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2017/09/26 08:06
S510	54	(US-20120316658-$ or US-20080208475-$ or US-20060271299-$ or US-20060240818-$ or US-20050092523-$ or US-20040231851-$ or US-20040088115-$ or US-20030182463-$ or US-20020169645-$ or US-20040262008-$ or US-20020112860-$ or US-20090149969-$ or US-20100147510-$ or US-20050096846-$ or US-20110231024-$ or US-20020161685-$ or US-20120310582-$ or US-20010032518-$ or US-20140163749-$ or US-20090055029-$ or US-20020018399-$ or US-20100033318-$ or US-20080077512-$ or US-20030052180-$).did. or (US-7148812-$ or US-7958938-$ or US-7967066-$ or US-7845404-$ or US-6913083-$ or US-5732776-$ or US-4052703-$ or US-8179279-$ or US-5149443-$ or US-8386059-$ or US-8131510-$ or US-7289994-$ or US-8373418-$ or US-8312320-$ or US-8290737-$ or US-7931090-$ or US-7921916-$ or US-6061603-$ or US-6192980-$ or US-6435022-$ or US-4823749-$ or US-8208478-$ or US-7347271-$ or US-5959547-$ or US-5941305-$ or US-7096092-$).did. or (US-6967589-$ or US-6356205-$ or US-5805926-$).did. or (WO-2008124765-$).did.	US-PGPUB; USPAT; EPO	OR	ON	2017/09/26 08:06
S511	2	S510 and (leak adj4 sensor)	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2017/09/26 08:06
S512	8	S510 and (private)	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2017/09/26 08:06
S513	6	S510 and (carrier)	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2017/09/26 08:06
S514	2	S510 and (validity)	US-	OR	ON	2017/09/26

			PGPUB; USPAT; FPRS; EPO			08:06
S515	130	("5247447" | "5272642" | "5353229").PN. OR ("5546301").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2017/09/26 08:06
S516	22	S515 and thread	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2017/09/26 08:06
S517	0	(thread near4 (actuator and sensor and synchronize and data))	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2017/09/26 08:06
S518	152	(thread near4 (actuator and sensor))	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2017/09/26 08:06
S519	10	S518 and 700/$.ccls.	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2017/09/26 08:06
S520	421	S484 S517 S519 S516 S511 S512 S513 S514 S509 S508 S507 S497 S496 S495 S493 S488 S490 S491 S486	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2017/09/26 08:06
S521	421	S520	US-PGPUB; USPAT; FPRS; EPO	OR	ON	2017/09/26 08:06

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S141	0	(translating plurality commands translated commands encoded plurality protocols different from the first protocol each translated command being translated into a protocol among the plurality of protocols suitable for a fluid handling device to which the respective command is directed the at least some of the translated command being operative to cause a local controller of the given fluid-handling device to drive the given fluid-handling device to the plurality of different target states the local controller being responsive to the translated commands and feedback from the given fluid handling device indicative of whether the given fluid handling device is in a targeted state).clm.	US-PGPUB; USPAT	AND	ON	2013/10/25 13:15
S142	0	(translating plurality commands translated commands encoded plurality protocols different from the first protocol each translated command being translated into a protocol among the	US-PGPUB; USPAT	AND	ON	2013/10/25 13:16

		plurality of protocols suitable for a fluid handling device to which the respective command is directed the at least some of the translated command being operative to cause a local controller of the given fluid-handling device).clm.				
S143	0	(sending the translated commands to respective local controllers of the respective fluid handling devices to which the respective commands are directed).clm.	US-PGPUB; USPAT	AND	ON	2013/10/25 13:16
S272	0	(obtaining a target state of at least one of the fluid handling devices based on at least some of the plurality of instructions wherein obtaining a target state of at least one of the fluid handling devices based on at least some of the plurality of instructions comprises after receiving the instructions determining a plurality of different target states of the at least one of the fluid handling devices, the plurality of different states each corresponding to different times after determining the plurality of different target states translating each received instructions into one or more translated instructions encoded in the selected respective protocol or protocols the one or more translated instructions including the determined plurality of different target states).clm.	US-PGPUB; USPAT	AND	ON	2015/09/21 08:51
S273	0	(obtaining a target state of at least one of the fluid handling devices based on at least some of the plurality of instructions wherein obtaining a target state of at least one of the fluid handling devices based on at least some of the plurality of instructions comprises after receiving the instructions determining a plurality of different target states of the at least one of the fluid handling devices).clm.	US-PGPUB; USPAT	AND	ON	2015/09/21 08:51
S274	0	(obtaining a target state of at least one of the fluid handling devices based on at least some of the plurality of instructions wherein obtaining a target state).clm.	US-PGPUB; USPAT	AND	ON	2015/09/21 08:51
S275	0	(the plurality of different states each corresponding to different times after determining the plurality of different target states translating each received instructions into one or more translated instructions encoded in the selected respective protocol or protocols the one or more translated instructions including the determined plurality of different target states).clm.	US-PGPUB; USPAT	AND	ON	2015/09/21 08:51
S522	0	(a computer-implemented web interface module modules configured to send instructions to present control interfaces in web browsers executing on user computing devices logged in to the accounts and to receive commands to control actuators from the user computing devices wherein the system is configured to receive with the web-interface module or modules a user command to actuate an actuator entered via a presented control interface identify a network address in the datastore corresponding to a facility at which the actuator is located and send instructions with the facility-interface module modules to the facility to	US-PGPUB; USPAT	AND	ON	2017/09/26 08:20

		actuate the actuator wherein the plurality of accounts include a first account a second account a third account and a fourth account the first account corresponds to a first group of oil gas facilities users of the first account being authorized to send commands to remotely control fluid handling devices at the first group of oil gas facilities the second account corresponds to a second group of oil gas facilities the first group being different from the second group users of the second account being authorized to send commands to remotely control fluid handling devices at the second group of oil gas facilities the third account corresponds to the first group of oil or gas facilities users of the third account being authorized to view reports of data from fluid handling devices at the first group of oil gas facilities the fourth account corresponds to the second group of oil gas facilities users of the fourth account being authorized to view reports of data from fluid handling devices at the second group of oil gas facilities).clm.				
S523	0	(a computer-implemented web interface module modules configured to send instructions to present control interfaces in web browsers executing on user computing devices logged in to the accounts and to receive commands to control actuators from the user computing devices wherein the system is configured to receive with the web-interface module or modules a user command to actuate an actuator entered via a presented control interface identify a network address in the datastore corresponding to a facility at which the actuator is located and send instructions with the facility-interface module modules to the facility to actuate the actuator wherein the plurality of accounts include a first account a second account a third account and a fourth account the first account corresponds to a first group of oil gas facilities users of the first account being authorized to send commands to remotely control fluid handling devices at the first group of oil gas facilities the second account corresponds to a second group of oil gas facilities the first group being different from the second group users of the second account being authorized to send commands to remotely control fluid handling devices at the second group of oil gas facilities the third account corresponds to the first group of oil gas facilities users of the third account being authorized to view reports of data from fluid handling devices at the first group of oil gas facilities the fourth account corresponds to the second group of oil gas facilities users of the fourth account being authorized to view reports of data from fluid handling devices at the second group of oil gas facilities).clm.	US-PGPUB; USPAT	AND	ON	2017/09/26 08:20
S524	0	(actuate an actuator entered via a presented control interface identify a network address in the datastore corresponding to a facility at which the actuator is located and send instructions with the facility-interface module modules to the	US-PGPUB; USPAT	AND	ON	2017/09/26 08:20

		facility to actuate the actuator wherein the plurality of accounts include a first account a second account a third account and a fourth account the first account corresponds to a first group of oil gas facilities users of the first account being authorized to send commands to remotely control fluid handling devices at the first group of oil gas facilities the second account corresponds to a second group of oil gas facilities the first group being different from the second group users of the second account being authorized to send commands to remotely control fluid handling devices at the second group of oil gas facilities the third account corresponds to the first group of oil gas facilities users of the third account being authorized to view reports of data from fluid handling devices at the first group of oil gas facilities the fourth account corresponds to the second group of oil gas facilities users of the fourth account being authorized to view reports of data from fluid handling devices at the second group of oil gas facilities).clm.				
S525	0	(a computer-implemented web interface module modules configured to send instructions to present control interfaces in web browsers executing on user computing devices logged in to the accounts and to receive commands to control actuators from the user computing devices wherein the system is configured to receive with the web-interface module or modules a user command to actuate an actuator entered via a presented control interface identify a network address in the datastore corresponding to a facility at which the actuator is located and send instructions with the facility-interface module modules to the facility to actuate the actuator wherein the plurality of accounts include a first account a second account a third account and a fourth account the first account corresponds to a first group of oil gas facilities users of the first account being authorized to send commands to remotely control fluid handling devices at the first group of oil gas facilities the second account corresponds to a second group of oil gas facilities the first group being different from the second group users of the second account being authorized to send commands to remotely control fluid handling devices at the second group of oil gas facilities the third account corresponds to the first).clm.	US-PGPUB; USPAT	AND	ON	2017/09/26 08:20

2/25/2019 11:15:39 AM
C:\Users\ceverett\Documents\EAST\Workspaces\15867077-RemoteControlOilGas.wsp

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/867,077	Phillips, Aaron
	Examiner	Art Unit
	CHRISTOPHER E EVERETT	2116

CPC - Searched*		
Symbol	Date	Examiner
(G05D7/0676 or H04L67/02 or G05B19/0428 or G06F3/0484 or E21B47/00 or G05B9/02 or G05B2219/24015 or G05B2219/25204 or G05B2219/31369 or G05B2219/23472)	02/25/2019	CEE

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

Search Notes		
Search Notes	Date	Examiner
Search of DAV using inventor search	02/25/2019	CEE
Search of EAST using inventor, assignee, and text searches	02/25/2019	CEE
Search of (G05D7/0676 or H04L67/02 or G05B19/0428 or G06F3/0484 or E21B47/00 or G05B9/02 or G05B2219/24015 or G05B2219/25204 or G05B2219/31369 or G05B2219/23472) using text searches	02/25/2019	CEE
Search of 700/1, 282, 275, 281, 42 using text searches	02/25/2019	CEE
Review of search history for parent application nos. 13/708557, 14/147,190, and 14/984,422	02/25/2019	CEE

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner

/Christopher E. Everett/ Primary Examiner, Art Unit 2116	

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SitePro, Inc. v. WaterBridge Resources, LLC, et al
IPR2024-00741-U.S. Patent No. 10,488,871

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/867,077	Phillips, Aaron
	Examiner	**Art Unit**
	CHRISTOPHER E EVERETT	2116

/Christopher E. Everett/ Primary Examiner, Art Unit 2116	

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SitePro, Inc. v. WaterBridge Resources, LLC, et al
IPR2024-00741-U.S. Patent No. 10,488,871

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/867,077	Phillips, Aaron
	Examiner	Art Unit
	CHRISTOPHER E EVERETT	2116

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

CLAIMS

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	02/25/2019								
	1	-								
	2	-								
	3	-								
	4	-								
	5	-								
	6	-								
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	38	✓								
	39	✓								
	40	✓								
	41	✓								
	42	✓								

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SitePro, Inc. v. WaterBridge Resources, LLC, et al
IPR2024-00741-U.S. Patent No. 10,488,871

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/867,077	Phillips, Aaron
	Examiner	**Art Unit**
	CHRISTOPHER E EVERETT	2116

CLAIM		DATE								
Final	Original	02/25/2019								
	43	✓								
	44	✓								
	45	✓								
	46	✓								
	47	✓								
	48	✓								
	49	✓								
	50	✓								
	51	✓								
	52	✓								
	53	✓								
	54	✓								

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IPR2024-00741-U.S. Patent No. 10,488,871

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/867,077	01/10/2018	Aaron Phillips	034392-0456380	8753

909 7590 03/01/2019

Pillsbury Winthrop Shaw Pittman, LLP
PO Box 10500
McLean, VA 22102

EXAMINER	
EVERETT, CHRISTOPHER E	

ART UNIT	PAPER NUMBER
2116	

NOTIFICATION DATE	DELIVERY MODE
03/01/2019	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

docket_ip@pillsburylaw.com

The Integration Group of The Americas, Ex. 1004-Page 200
SitePro, Inc. v. WaterBridge Resources, LLC, et al
IPR2024-00741-U.S. Patent No. 10,488,871

Office Action Summary	Application No. 15/867,077	Applicant(s) Phillips, Aaron	
	Examiner CHRISTOPHER E EVERETT	Art Unit 2116	AIA Status No

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☑ Responsive to communication(s) filed on 1/10/2018.

☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2a)☐ This action is **FINAL.** 2b) ☑ This action is non-final.

3)☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

4)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5) ☑ Claim(s) 21-51 is/are pending in the application.

5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6) ☐ Claim(s) _____ is/are allowed.

7) ☑ Claim(s) 21-54 is/are rejected.

8) ☐ Claim(s) _____ is/are objected to.

9) ☐ Claim(s) _____ are subject to restriction and/or election requirement

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to **PPHfeedback@uspto.gov.**

Application Papers

10)☐ The specification is objected to by the Examiner.

11)☑ The drawing(s) filed on 1/10/2018 is/are: a)☑ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

a)☐ All b)☐ Some** c)☐ None of the:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☑ Notice of References Cited (PTO-892)

2) ☐ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date _____.

3) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date _____.

4) ☐ Other: _____.

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IPR2024-00741-U.S. Patent No. 10,488,871

DETAILED ACTION

1. Claims 21-54 are pending.

Notice of Pre-AIA or AIA Status

2. The present application is being examined under the pre-AIA first to invent provisions.

3. In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

Double Patenting

4. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van*

Ornum, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on nonstatutory double patenting provided the reference application or patent either is shown to be commonly owned with the examined application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement. See MPEP § 717.02 for applications subject to examination under the first inventor to file provisions of the AIA as explained in MPEP § 2159. See MPEP §§ 706.02(l)(1) - 706.02(l)(3) for applications not subject to examination under the first inventor to file provisions of the AIA. A terminal disclaimer must be signed in compliance with 37 CFR 1.321(b).

The USPTO Internet website contains terminal disclaimer forms which may be used. Please visit www.uspto.gov/patent/patents-forms. The filing date of the application in which the form is filed determines what form (e.g., PTO/SB/25, PTO/SB/26, PTO/AIA/25, or PTO/AIA/26) should be used. A web-based eTerminal Disclaimer may be filled out completely online using web-screens. An eTerminal Disclaimer that meets all requirements is auto-processed and approved immediately upon submission. For more information about eTerminal Disclaimers, refer to www.uspto.gov/patents/process/file/efs/guidance/eTD-info-I.jsp.

5. Claims 21-54 are rejected on the ground of nonstatutory double patenting as being unpatentable over claims 1-23 of U.S. Patent No. 9,898,014. Although the claims at issue are not identical, they are not patentably distinct from each other as outlined below.

U.S. Patent Application No. 15/867,077	**U.S. Patent No. 9,898,014**
21. (and corresponding claim 38) A hosted, networked, remote industrial monitoring and control system for geographically distributed fluid-handling facilities, the system comprising:	1. A hosted, web-based, remote industrial monitoring and control system for geographically distributed facilities in oil and gas fields, the system comprising:
a computer-implemented datastore storing:	a computer-implemented datastore storing:
a plurality of accounts, each account corresponding to an entity operating one or more geographically distributed fluid-handling facilities, the accounts associating different fluid-handling facilities with different entities;	a plurality of accounts, each account corresponding to an entity operating one or more geographically distributed oil or gas facilities, the accounts associating different oil or gas facilities with different entities; and
and addresses by which industrial monitoring or control equipment at the facilities is accessible via network connections, the monitoring or control equipment including sensors configured to measure fluid handled at respective fluid-handling facilities and actuators configured to manipulate fluid flow at respective fluid-handling facilities, at least some of the fluid-handling facilities	network addresses by which industrial monitoring or control equipment at the facilities is accessible via cellular network connections, the monitoring or control equipment including sensors or actuators;

including both a plurality of the sensors and a plurality of the actuators;	
a computer-implemented facility-interface module or modules configured to obtain data from the sensors at the facilities and send commands to the actuators at the facilities via the network connections;	a computer-implemented facility-interface module or modules configured to obtain data from the sensors at the facilities and send commands to the actuators at the facilities via the cellular network connections; and
and a computer-implemented user-interface module or modules configured to send respective instructions to present respective control interfaces on respective user-computing devices logged in to respective ones of the accounts and to receive respective commands to control respective actuators from the respective user computing devices,	a computer-implemented web-interface module or modules configured to send instructions to present control interfaces in web browsers executing on user computing devices logged in to the accounts and to receive commands to control actuators from the user computing devices,
wherein the system is configured to receive, with the user-interface module or modules, a user command to actuate an actuator entered via a presented control interface, identify an address in the datastore corresponding to a facility at which the actuator is located, and send instructions with the facility-interface	wherein the system is configured to receive, with the web-interface module or modules, a user command to actuate an actuator entered via a presented control interface, identify a network address in the datastore corresponding to a facility at which the actuator is located, and send instructions with the facility-interface

module or modules to the facility to actuate the actuator, and wherein:	module or modules to the facility to actuate the actuator, and wherein:
the plurality of accounts include a first account, a second account, a third account, and a fourth account;	the plurality of accounts include a first account, a second account, a third account, and a fourth account;
the first account corresponds to a first group of fluid-handling facilities, one or more users of the first account being authorized to send commands to remotely control fluid handling devices at the first group of fluid-handling facilities;	the first account corresponds to a first group of oil or gas facilities, users of the first account being authorized to send commands to remotely control fluid handling devices at the first group of oil or gas facilities;
the second account corresponds to a second group of fluid-handling facilities, the first group being different from the second group, one or more users of the second account being authorized to send commands to remotely control fluid handling devices at the second group of fluid-handling facilities;	the second account corresponds to a second group of oil or gas facilities, the first group being different from the second group, users of the second account being authorized to send commands to remotely control fluid handling devices at the second group of oil or gas facilities;
the third account corresponds to the first group of fluid-handling facilities, one or more users of the third account being authorized to view reports of data from fluid	the third account corresponds to the first group of oil or gas facilities, users of the third account being authorized to view reports of data from fluid handling devices at the first group of oil or gas facilities; and

handling devices at the first group of fluid-handling facilities;	
and the fourth account corresponds to the second group of fluid-handling facilities, one or more users of the of the fourth account being authorized to view reports of data from fluid handling devices at the second group of fluid-handling facilities.	the fourth account corresponds to the second group of oil or gas facilities, users of the fourth account being authorized to view reports of data from fluid handling devices at the second group of oil or gas facilities.
23. (and corresponding claim 40) The system of claim 21, wherein:the sensors include a tank level sensor of a tank at one of the facilities; the datastore includes a record associating the tank with the facility, data from the tank being unavailable to users without an account associated with the tank; andthe accounts designate a plurality of fluid-handling facilities to which a given user is authorized to send user commands to actuate actuators, wherein at least some users of the third account are not authorized by the third account to issue commands to fluid handling devices at the first group of fluid-handling facilities.	2. The system of claim 1, wherein the sensors include a tank level sensor of a tank at one of the facilities, and wherein the datastore includes a record associating the tank with the facility, data from the tank being unavailable to users without an account associated with the tank, and wherein the accounts: designate oil or gas facilities to which a given user is authorized to send the user command to actuate the actuator.

22. (and corresponding claim 39) The system of claim 21, wherein:at least some of the fluid-handling facilities are oil-or-gas related fluid-handling facilities and include petro-water disposal facilities or re-injection facilities; and the sensors include a level sensor of an oil/water separation tank at one of the facilities configured to indicate a level at which oil meets water, and wherein the datastore includes a record associating the tank with the facility	3. The system of claim 1, wherein the sensors include a level sensor of an oil/water separation tank at one of the facilities configured to indicate a level at which oil meets water, and wherein the datastore includes a record associating the tank with the facility.
24. (and corresponding claim 41) The system of claim 21, wherein the sensors include:a level sensor of a tank at a given one of the facilities and wherein the datastore includes a record associating the tank with the given facility; and a leak detector at the given facility, and wherein the datastore includes a record associating the leak detector with the given facility.	4. The system of claim 1, wherein the sensors include a leak detector at one of the facilities, and wherein the datastore includes a record associating the leak detector with the facility.
25. (and corresponding claim 42) The system of claim 21, wherein:the user-interface module or modules comprises a web server;	5. The system of claim 1, wherein: the web-interface module or modules comprises a web server; and the facility-interface module or

and the facility-interface module or modules comprises a site server distinct from the web server; the web server is configured to communicate with user devices via a first network port of a computing device executing the web server; the site server is configured to communicate with facilities via a second network port of the computing device, the second network port being different from the first network port; and the data store is configured to store subscription information associated with at least some of the accounts.	modules comprises a site server distinct from the web server. 6. The system of claim 5, wherein: the web server communicates with user devices via a first network port of a computing device executing the web server; and the site server communicates with facilities via a second network port of the computing device, the second network port being different from the first network port. 7. The system of claim 1, wherein: the data store stores subscription information associated with at least some of the accounts.
26. (and corresponding claim 43) The system of claim 21, wherein:the facility-interface module or modules comprise means for interfacing with a plurality of site controllers associated with the facilities; and the user-interface module or modules comprise means for sending instructions to present a control interface on the user devices.	8. The system of claim 1, wherein the facility-interface module or modules comprise: means for interfacing with a plurality of site controllers associated with the facilities. 9. The system of claim 1, wherein the web-interface module or modules comprise: means

	for sending instructions to present a control interface on the user devices.
27. (and corresponding claim 44) The system of claim 21, wherein the datastore stores accounts for more than one thousand facilities, and the user-interface module or modules are configured interface with more than one thousand user devices.	10. The system of claim 1, wherein the datastore stores accounts for more than one hundred facilities, and the web-interface module or modules are configured interface with more than one hundred user devices.
28. (and corresponding claim 45) The system of claim 21, wherein the facility-interface module or modules are configured to send pull requests to facilities to retrieve data buffered at the facilities.	11. The system of claim 1, wherein the facility-interface module or modules are configured to send pull requests to facilities to retrieve data buffered at the facilities.
31. (new) The system of claim 21, comprising:a controller at one of the facilities communicatively coupled to an actuator or a sensor.	12. The system of claim 1, comprising: a controller at one of the facilities communicatively coupled to an actuator or a sensor.
29. (and corresponding claim 46) The system of claim 21, wherein the system is configured to instantiate at least three of the following as distinct threads from one another:a thread configured to sends and receive data requests; a thread configured to	13. The system of claim 12, wherein the system is configured to instantiate at least four of the following as distinct threads from one another: a thread configured to sends and receive data requests; a thread configured to synchronize other threads with updated

synchronize other threads with updated information; a thread configured to set a target state of actuators; a thread configured to obtain updated sensor readings; a thread configured to process user interactions; and a thread that eliminates other threads upon detecting a problem with the eliminated threads.	information; a thread configured to set a target state of actuators; a thread configured to obtain updated sensor readings; a thread configured to process user interactions; and a thread that eliminates other threads upon detecting a problem with the eliminated threads.
30. (and corresponding claim 47) The system of claim 21, wherein the system is configured to instantiate each and every of the following as distinct threads from one another:a thread configured to sends or receive data request; a thread configured to synchronize other threads with updated information; a thread configured to set a target state of actuators; a thread configured to obtain updated sensor readings; a thread configured to process user interactions; and a thread that eliminates other threads upon detecting a problem with the eliminated threads.	14. The system of claim 12, wherein the system is configured to instantiate at least two of the following as distinct threads from one another: a thread configured to sends or receive data request; a thread configured to synchronize other threads with updated information; a thread configured to set a target state of actuators; a thread configured to obtain updated sensor readings; a thread configured to process user interactions; and a thread that eliminates other threads upon detecting a problem with the eliminated threads.

31. (and corresponding claim 48) The system of claim 21, comprising:a controller at one of the facilities communicatively coupled to an actuator or a sensor.	15. The system of claim 12, wherein the controller is communicatively coupled to the actuator or sensor via a private local area network.
32. (and corresponding claim 49) The system of claim 31, wherein the controller is communicatively coupled to the actuator and the sensor via a private local area network, the system comprising a respective fluid-handling facility having the controller, the system further comprising the actuator, the sensor, and the private local area network, and wherein controller is communicatively coupled to the actuator or sensor via a frame-based carrier-sense multiple access protocol with collision detection.	16. The system of claim 12, wherein controller is communicatively coupled to the actuator or sensor via a frame-based carrier-sense multiple access protocol with collision detection.
33. (and corresponding claim 50) The system of claim 31, wherein controller is configured to push buffered data to the facility-interface module or modules.	17. The system of claim 12, wherein controller is configured to periodically push buffered data to the facility-interface module or modules.
34. (and corresponding claim 51) The system of claim 31, comprising:means for ensuring	18. The system of claim 12, comprising: means for ensuring at least some data is not lost if network access ceases intermittently.

at least some data is not lost if network access ceases intermittently.	
35. (and corresponding claim 52) The system of claim 31, comprising:means for translating a command for an actuator from an input format to a format configured to effectuate changes in the actuator.	19. The system of claim 12, comprising: means for translating a command for an actuator from an input format to a format configured to effectuate changes in the actuator.
36. The system of claim 31, comprising:means for executing control routines implicated by translated commands on an individual actuator or sensor. 53. The method of claim 48, comprising:steps for loosening a stuck valve. 54. The method of claim 48, comprising:steps for mitigating shocks to up-stream or down-stream fluid-handling devices.	20. The system of claim 19, comprising: means for executing control routines implicated by translated commands on an individual actuator or sensor.
37. The system of claim 31, comprising:means for transmitting data to the facility-interface module or modules.	21. The system of claim 12, comprising: means for transmitting data to the facility-interface module or modules.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to CHRISTOPHER E EVERETT whose telephone number is (571)272-2851. The examiner can normally be reached on Monday-Friday 8:00 am to 5:00 pm (Eastern).

Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at http://www.uspto.gov/interviewpractice.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kenneth Lo can be reached on 571-272-9774. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Christopher E. Everett/
Primary Examiner, Art Unit 2116

Bibliographic Data

Application No: 15/867,077

Foreign Priority claimed: ○ Yes ◉ No

35 USC 119 (a-d) conditions met: ☐ Yes ☑ No ☐ Met After Allowance

Verified and Acknowledged: /Christopher E. Everett/ Examiner's Signature | Initials

Title: REMOTE CONTROL OF FLUID-HANDLING DEVICES

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
01/10/2018	700	2116	034392-0456380
RULE			

APPLICANTS

AmpliSine Labs, LLC., Lubbock, TX,

INVENTORS

Aaron Phillips Lubbock, TX, UNITED STATES

CONTINUING DATA

This application is a CON of 14984422 12/30/2015 PAT 9898014

14984422 is a CON of 14147190 01/03/2014 PAT 9342078

14147190 is a CON of 13708557 12/07/2012 PAT 8649909

FOREIGN APPLICATIONS

IF REQUIRED, FOREIGN LICENSE GRANTED**

01/31/2018

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STATE OR COUNTRY

UNITED STATES

ADDRESS

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PO Box 10500

McLean, VA 22102

UNITED STATES

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Notice of References Cited	Application/Control No. 15/867,077	Applicant(s)/Patent Under Reexamination Phillips, Aaron	
	Examiner CHRISTOPHER E EVERETT	Art Unit 2116	Page 1 of 5

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*	C	US-20060271299-A1	11-2006	Ward; Simon J.	E21B43/127	702/6
*	D	US-20060240818-A1	10-2006	McCoy; Robert	H04B7/18567	455/430
*	E	US-20050092523-A1	05-2005	McCaskill, John Walton	E21B21/08	175/38
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*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	CPC Classification
	N					
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	R					
	S					
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NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
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Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

Notice of References Cited	Application/Control No. 15/867,077	Applicant(s)/Patent Under Reexamination Phillips, Aaron	
	Examiner CHRISTOPHER E EVERETT	Art Unit 2116	Page 2 of 5

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	T					

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The Integration Group of The Americas, Ex. 1004-Page 218
SitePro, Inc. v. WaterBridge Resources, LLC, et al
IPR2024-00741-U.S. Patent No. 10,488,871

Notice of References Cited	Application/Control No. 15/867,077	Applicant(s)/Patent Under Reexamination Phillips, Aaron	
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IPR2024-00741-U.S. Patent No. 10,488,871

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	Examiner CHRISTOPHER E EVERETT	Art Unit 2116	Page 4 of 5

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IPR2024-00741-U.S. Patent No. 10,488,871

Notice of References Cited	Application/Control No. 15/867,077	Applicant(s)/Patent Under Reexamination Phillips, Aaron	
	Examiner CHRISTOPHER E EVERETT	Art Unit 2116	Page 5 of 5

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SitePro, Inc. v. WaterBridge Resources, LLC, et al
IPR2024-00741-U.S. Patent No. 10,488,871

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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
15/867,077	01/10/2018	Aaron Phillips	034392-0456380

CONFIRMATION NO. 8753

909
Pillsbury Winthrop Shaw Pittman, LLP
PO Box 10500
McLean, VA 22102

PUBLICATION NOTICE

OC000000099438088

Title:REMOTE CONTROL OF FLUID-HANDLING DEVICES

Publication No.US-2018-0129230-A1
Publication Date:05/10/2018

NOTICE OF PUBLICATION OF APPLICATION

The above-identified application will be electronically published as a patent application publication pursuant to 37 CFR 1.211, et seq. The patent application publication number and publication date are set forth above.

The publication may be accessed through the USPTO's publically available Searchable Databases via the Internet at www.uspto.gov. The direct link to access the publication is currently http://www.uspto.gov/patft/.

The publication process established by the Office does not provide for mailing a copy of the publication to applicant. A copy of the publication may be obtained from the Office upon payment of the appropriate fee set forth in 37 CFR 1.19(a)(1). Orders for copies of patent application publications are handled by the USPTO's Public Records Division. The Public Records Division can be reached by telephone at (571) 272-3150 or (800) 972-6382, by facsimile at (571) 273-3250, by mail addressed to the United States Patent and Trademark Office, Public Records Division, Alexandria, VA 22313-1450 or via the Internet.

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The Integration Group of The Americas, Ex. 1004-Page 222
SitePro, Inc. v. WaterBridge Resources, LLC, et al
IPR2024-00741-U.S. Patent No. 10,488,871

PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number: 15/867,077

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY FEE($)
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	75		N/A	
SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A	330		N/A	
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	380		N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	34 minus 20 =	* 14	x 50 =	700	OR		
INDEPENDENT CLAIMS (37 CFR 1.16(h))	2 minus 3 =	*	x 230 =	0.00			
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).			0.00			
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				0.00			
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	1485		TOTAL	

APPLICATION AS AMENDED - PART II

		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY ADDITIONAL FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY ADDITIONAL FEE($)
AMENDMENT A	Total (37 CFR 1.16(i))	*	Minus	**	=	x =		OR	x =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x =		OR	x =	
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY ADDITIONAL FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY ADDITIONAL FEE($)
AMENDMENT B	Total (37 CFR 1.16(i))	*	Minus	**	=	x =		OR	x =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x =		OR	x =	
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".
The "Highest Number Previously Paid For" (Total or Independent) is the highest found in the appropriate box in column 1.

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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
15/867,077	01/10/2018	2652	1430	034392-0456380	34	2

CONFIRMATION NO. 8753

909
Pillsbury Winthrop Shaw Pittman, LLP
PO Box 10500
McLean, VA 22102

FILING RECEIPT

OC000000097115980

Date Mailed: 02/02/2018

Receipt is acknowledged of this non-provisional patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. 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)

Aaron Phillips, Lubbock, TX;

Applicant(s)

AmpliSine Labs, LLC., Lubbock, TX;

Power of Attorney: None

Domestic Priority data as claimed by applicant

This application is a CON of 14/984,422 12/30/2015 PAT 9898014
which is a CON of 14/147,190 01/03/2014 PAT 9342078
which is a CON of 13/708,557 12/07/2012 PAT 8649909

Foreign Applications for which priority is claimed (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see http://www.uspto.gov for more information.) - None.
Foreign application information must be provided in an Application Data Sheet in order to constitute a claim to foreign priority. See 37 CFR 1.55 and 1.76.

Permission to Access Application via Priority Document Exchange: Yes

Permission to Access Search Results: Yes

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The Integration Group of The Americas, Ex. 1004-Page 224
SitePro, Inc. v. WaterBridge Resources, LLC, et al
IPR2024-00741-U.S. Patent No. 10,488,871

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 15/867,077**

Projected Publication Date: 05/10/2018

Non-Publication Request: No

Early Publication Request: No
**** SMALL ENTITY ****
Title

REMOTE CONTROL OF FLUID-HANDLING DEVICES

Preliminary Class

379

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

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Document code: WFEE

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REMARKS

Applicants have canceled claims 1-20 and added new claims 21-54. These amendments do not introduce new matter and are supported by the original application.

Applicants respectfully submit that all pending claims should be in condition for allowance. However, if the Examiner believes certain amendments are necessary to clarify the present claims or if the Examiner wishes to resolve any other issues by way of a telephone conference, the Examiner is kindly invited to contact the undersigned attorney at the telephone number indicated below.

Respectfully submitted,

Date: 18 January 2018

/Joshua Tucker/

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Electronic Acknowledgement Receipt

EFS ID:	31538249
Application Number:	15867077
International Application Number:	
Confirmation Number:	8753
Title of Invention:	REMOTE CONTROL OF FLUID-HANDLING DEVICES
First Named Inventor/Applicant Name:	Aaron Phillips
Customer Number:	909
Filer:	Joshua L. Tucker/Kathryn Seeman
Filer Authorized By:	Joshua L. Tucker
Attorney Docket Number:	034392-0456380
Receipt Date:	18-JAN-2018
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Application Type:	Utility under 35 USC 111(a)

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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Preliminary Amendment	034392_0456380_Preliminary_Amendment_filed_18JAN2018.pdf	173595 a655f9dd79a77dd3fe0e7cc67e49b36303460968	no	12

Warnings:

Information:	
Total Files Size (in bytes):	173595

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New International Application Filed with the USPTO as a Receiving Office

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AMENDMENTS TO THE CLAIMS

The following is a complete listing of the claims, which replaces all previous versions and listings of the claims.

1-20. (canceled)

21. (new) A hosted, networked, remote industrial monitoring and control system for geographically distributed fluid-handling facilities, the system comprising:

a computer-implemented datastore storing:

a plurality of accounts, each account corresponding to an entity operating one or more geographically distributed fluid-handling facilities, the accounts associating different fluid-handling facilities with different entities; and

addresses by which industrial monitoring or control equipment at the facilities is accessible via network connections, the monitoring or control equipment including sensors configured to measure fluid handled at respective fluid-handling facilities and actuators configured to manipulate fluid flow at respective fluid-handling facilities, at least some of the fluid-handling facilities including both a plurality of the sensors and a plurality of the actuators;

a computer-implemented facility-interface module or modules configured to obtain data from the sensors at the facilities and send commands to the actuators at the facilities via the network connections; and

a computer-implemented user-interface module or modules configured to send respective instructions to present respective control interfaces on respective user-computing devices logged in to respective ones of the accounts and to receive respective commands to control respective actuators from the respective user computing devices,

wherein the system is configured to receive, with the user-interface module or modules, a user command to actuate an actuator entered via a presented control interface, identify an address in the datastore corresponding to a facility at which the actuator is

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located, and send instructions with the facility-interface module or modules to the facility to actuate the actuator, and

wherein:

the plurality of accounts include a first account, a second account, a third account, and a fourth account;

the first account corresponds to a first group of fluid-handling facilities, one or more users of the first account being authorized to send commands to remotely control fluid handling devices at the first group of fluid-handling facilities;

the second account corresponds to a second group of fluid-handling facilities, the first group being different from the second group, one or more users of the second account being authorized to send commands to remotely control fluid handling devices at the second group of fluid-handling facilities;

the third account corresponds to the first group of fluid-handling facilities, one or more users of the third account being authorized to view reports of data from fluid handling devices at the first group of fluid-handling facilities; and

the fourth account corresponds to the second group of fluid-handling facilities, one or more users of the of the fourth account being authorized to view reports of data from fluid handling devices at the second group of fluid-handling facilities.

22. (new) The system of claim 21, wherein:

at least some of the fluid-handling facilities are oil-or-gas related fluid-handling facilities and include petro-water disposal facilities or re-injection facilities; and

the sensors include a level sensor of an oil/water separation tank at one of the facilities configured to indicate a level at which oil meets water, and wherein the datastore includes a record associating the tank with the facility

23. (new) The system of claim 21, wherein:

the sensors include a tank level sensor of a tank at one of the facilities;

the datastore includes a record associating the tank with the facility, data from the

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tank being unavailable to users without an account associated with the tank; and

the accounts designate a plurality of fluid-handling facilities to which a given user is authorized to send user commands to actuate actuators, wherein at least some users of the third account are not authorized by the third account to issue commands to fluid handling devices at the first group of fluid-handling facilities.

24. (new) The system of claim 21, wherein the sensors include:

a level sensor of a tank at a given one of the facilities and wherein the datastore includes a record associating the tank with the given facility; and

a leak detector at the given facility, and wherein the datastore includes a record associating the leak detector with the given facility.

25. (new) The system of claim 21, wherein:

the user-interface module or modules comprises a web server; and

the facility-interface module or modules comprises a site server distinct from the web server;

the web server is configured to communicate with user devices via a first network port of a computing device executing the web server;

the site server is configured to communicate with facilities via a second network port of the computing device, the second network port being different from the first network port; and

the data store is configured to store subscription information associated with at least some of the accounts.

26. (new) The system of claim 21, wherein:

the facility-interface module or modules comprise means for interfacing with a plurality of site controllers associated with the facilities; and

the user-interface module or modules comprise means for sending instructions to present a control interface on the user devices.

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27. (new) The system of claim 21, wherein the datastore stores accounts for more than one thousand facilities, and the user-interface module or modules are configured interface with more than one thousand user devices.

28. (new) The system of claim 21, wherein the facility-interface module or modules are configured to send pull requests to facilities to retrieve data buffered at the facilities.

29. (new) The system of claim 21, wherein the system is configured to instantiate at least three of the following as distinct threads from one another:

a thread configured to sends and receive data requests;

a thread configured to synchronize other threads with updated information;

a thread configured to set a target state of actuators;

a thread configured to obtain updated sensor readings;

a thread configured to process user interactions; and

a thread that eliminates other threads upon detecting a problem with the eliminated threads.

30. (new) The system of claim 21, wherein the system is configured to instantiate each and every of the following as distinct threads from one another:

a thread configured to sends or receive data request;

a thread configured to synchronize other threads with updated information;

a thread configured to set a target state of actuators;

a thread configured to obtain updated sensor readings;

a thread configured to process user interactions; and

a thread that eliminates other threads upon detecting a problem with the eliminated threads.

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31. (new) The system of claim 21, comprising:

a controller at one of the facilities communicatively coupled to an actuator or a sensor.

32. (new) The system of claim 31, wherein the controller is communicatively coupled to the actuator and the sensor via a private local area network, the system comprising a respective fluid-handling facility having the controller, the system further comprising the actuator, the sensor, and the private local area network, and wherein controller is communicatively coupled to the actuator or sensor via a frame-based carrier-sense multiple access protocol with collision detection.

33. (new) The system of claim 31, wherein controller is configured to push buffered data to the facility-interface module or modules.

34. (new) The system of claim 31, comprising:

means for ensuring at least some data is not lost if network access ceases intermittently.

35. (new) The system of claim 31, comprising:

means for translating a command for an actuator from an input format to a format configured to effectuate changes in the actuator.

36. (new) The system of claim 31, comprising:

means for executing control routines implicated by translated commands on an individual actuator or sensor.

37. (new) The system of claim 31, comprising:

means for transmitting data to the facility-interface module or modules.

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38. (new) A method, comprising:

storing, with one or more processors, records comprising:

a plurality of accounts, each account corresponding to an entity operating one or more geographically distributed fluid-handling facilities, the accounts associating different fluid-handling facilities with different entities; and

addresses by which industrial monitoring or control equipment at the facilities is accessible via network connections, the monitoring or control equipment including sensors configured to measure fluid handled at respective fluid-handling facilities and actuators configured to manipulate fluid flow at respective fluid-handling facilities, at least some of the fluid-handling facilities including both a plurality of the sensors and a plurality of the actuators;

obtaining, with one or more processors implementing a facility-interface module or modules, data from the sensors at the facilities and send commands to the actuators at the facilities via the network connections; and

sending, with one or more processors implementing a user-interface module or modules, respective instructions to present respective control interfaces on respective user-computing devices logged in to respective ones of the accounts and to receive respective commands to control respective actuators from the respective user computing devices;

receiving, with the user-interface module or modules, a user command to actuate an actuator entered via a presented control interface;

identifying, with one or more processors, in response to the user command, an address in the datastore corresponding to a facility at which the actuator is located; and

sending, with one or more processors, instructions with the facility-interface module or modules to the facility to actuate the actuator, wherein:

the plurality of accounts include a first account, a second account, a third account, and a fourth account;

the first account corresponds to a first group of fluid-handling facilities, one or more users of the first account being authorized to send commands to remotely control fluid handling devices at the first group of fluid-handling facilities;

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the second account corresponds to a second group of fluid-handling facilities, the first group being different from the second group, one or more users of the second account being authorized to send commands to remotely control fluid handling devices at the second group of fluid-handling facilities;

the third account corresponds to the first group of fluid-handling facilities, one or more users of the of the third account being authorized to view reports of data from fluid handling devices at the first group of fluid-handling facilities; and

the fourth account corresponds to the second group of fluid-handling facilities, one or more users of the of the fourth account being authorized to view reports of data from fluid handling devices at the second group of fluid-handling facilities.

39. (new) The method of claim 38, wherein:

at least some of the fluid-handling facilities are oil-or-gas related fluid-handling facilities and include petro-water disposal facilities or re-injection facilities; and

the sensors include a level sensor of an oil/water separation tank at one of the facilities configured to indicate a level at which oil meets water, and wherein the datastore includes a record associating the tank with the facility

40. (new) The method of claim 38, wherein:

the sensors include a tank level sensor of a tank at one of the facilities;

the datastore includes a record associating the tank with the facility, data from the tank being unavailable to users without an account associated with the tank; and

the accounts designate a plurality of fluid-handling facilities to which a given user is authorized to send user commands to actuate actuators.

41. (new) The method of claim 38, wherein the sensors include:

a level sensor of a tank at a given one of the facilities and wherein the datastore includes a record associating the tank with the given facility; and

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a leak detector at the given facility, and wherein the datastore includes a record associating the leak detector with the given facility.

42. (new) The method of claim 38, wherein:

the user-interface module or modules comprises a web server; and

the facility-interface module or modules comprises a site server distinct from the web server;

the web server is configured to communicate with user devices via a first network port of a computing device executing the web server;

the site server is configured to communicate with facilities via a second network port of the computing device, the second network port being different from the first network port; and

the data store is configured to store subscription information associated with at least some of the accounts.

43. (new) The method of claim 38, comprising:

steps for interfacing with a plurality of site controllers associated with the facilities; and

steps for sending instructions to present a control interface on the user devices.

44. (new) The method of claim 38, wherein the datastore stores accounts for more than one thousand facilities, and the user-interface module or modules are configured interface with more than one thousand user devices.

45. (new) The method of claim 38, wherein the facility-interface module or modules are configured to send pull requests to facilities to retrieve data buffered at the facilities.

46. (new) The method of claim 38, comprising instantiating at least three of the following as distinct threads from one another:

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a thread configured to sends and receive data requests;

a thread configured to synchronize other threads with updated information;

a thread configured to set a target state of actuators;

a thread configured to obtain updated sensor readings;

a thread configured to process user interactions; and

a thread that eliminates other threads upon detecting a problem with the eliminated threads.

47. (new) The method of claim 38, comprising instantiating each and every of the following as distinct threads from one another:

a thread configured to sends or receive data request;

a thread configured to synchronize other threads with updated information;

a thread configured to set a target state of actuators;

a thread configured to obtain updated sensor readings;

a thread configured to process user interactions; and

a thread that eliminates other threads upon detecting a problem with the eliminated threads.

48. (new) The method of claim 38, comprising:

communicating, with a controller at one of the facilities, with an actuator or a sensor to actuate the actuator or read from the sensor.

49. (new) The method of claim 48, wherein the controller is communicatively coupled to the actuator and the sensor via a private local area network, and wherein controller is communicatively coupled to the actuator or sensor via a frame-based carrier-sense multiple access protocol with collision detection.

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50. (new) The method of claim 48, comprising buffering data from sensors with the controller and pushing, with the controller, buffered data to the facility-interface module or modules.

51. (new) The method of claim 48, comprising:

steps for ensuring at least some data is not lost if network access ceases intermittently.

52. (new) The method of claim 48, comprising:

steps for translating a command for an actuator from an input format to a format configured to effectuate changes in the actuator;

steps for executing control routines implicated by translated commands on an individual actuator or sensor; and

steps for transmitting data to the facility-interface module or modules.

53. (new) The method of claim 48, comprising:

steps for loosening a stuck valve.

54. (new) The method of claim 48, comprising:

steps for mitigating shocks to up-stream or down-stream fluid-handling devices.

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Aaron Phillips	§	Group Art Unit: 2652
	§	Confirmation No.: 8753
Serial No.: 15/867,077	§	Examiner: unassigned
Filed: January 10, 2018	§	
	§	
For: Remote Control Of Fluid-Handling Devices	§	Atty. Docket: 034392-0456380
	§	

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

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18 January 2018	/Joshua Tucker/
Date	Joshua Tucker

Commissioner:

PRELIMINARY AMENDMENT

Applicants amend and remark as follows.

Authorization for Extensions of Time and Payment of Fees

In accordance with 37 C.F.R. § 1.136, Applicants hereby provide a general authorization to treat this and any future reply requiring an extension of time as incorporating a request thereof. The Commissioner is authorized to charge any additional fees that may be required to the credit card listed on the attached PTO-2038. However, if the PTO-2038 is missing, if the amount listed thereon is insufficient, or if the amount is unable to be charged to the credit card for any other reason, the Commissioner is authorized to charge Deposit Account No. 033975, referencing the above attorney docket number.

Electronic Patent Application Fee Transmittal

Application Number:	
Filing Date:	
Title of Invention:	REMOTE CONTROL OF FLUID-HANDLING DEVICES
First Named Inventor/Applicant Name:	Aaron Phillips
Filer:	Joshua L. Tucker/Kathryn Seeman
Attorney Docket Number:	034392-0456380

Filed as Small Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
UTILITY FILING FEE (ELECTRONIC FILING)	4011	1	70	70
UTILITY SEARCH FEE	2111	1	300	300
UTILITY EXAMINATION FEE	2311	1	360	360
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
		Total in USD ($)		**730**

PATENT APPLICATION

REMOTE CONTROL OF FLUID-HANDLING DEVICES

CROSS-REFERENCE TO RELATED APPLICATIONS

[001] The present application is a continuation of U.S. Patent Application 14/984,422 filed 30 December 2015, and titled REMOTE CONTROL OF FLUID-HANDLING DEVICES, which is a continuation of 14/147,190, issued as U.S. Patent 9,342,078, filed 03 January 2014, titled REMOTE CONTROL OF FLUID-HANDLING DEVICES, which is a continuation of U.S. Patent Application 13/708,557, issued as U.S. Patent 8,649,909, filed 07 December 2012, and titled REMOTE CONTROL OF FLUID-HANDLING DEVICES, the entire contents of each of which are hereby incorporated by reference for all purposes.

BACKGROUND OF THE INVENTION

1. Field of the Invention

[002] The present invention relates generally to fluid-handling devices and, more specifically, to remote control of fluid-handling devices.

2. Description of the Related Art

[003] Fluid-handling devices, such as valves, pumps, and various other forms of process equipment, in many use cases, are widely geographically distributed. For example, when such devices are used to extract petroleum products from an oil well, the associated fluid source or receptacle may be in a relatively remote location, as oil wells are generally distributed relative to one another and located remote from metropolitan areas. Similar issues arise in relation to petro-water disposal facilities, re-injection facilities, and petroleum pumping stations, all of which tend to be geographically distributed and include fluid-handling equipment.

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[004] When monitoring or controlling such sites, it can be time-consuming and expensive for a technician to manually adjust or otherwise control fluid-handling devices, as the technician will incur costs and delays by traveling to the device to make adjustments or gather data in person. And these adjustments and inspections often occur relatively frequently, as process conditions and market demand fluctuate, thereby further increasing costs.

[005] Some systems exist for exercising remote monitoring of fluid-handling devices, such as various supervisory control and data acquisition (SCADA) systems, but many of these systems fail when a network connection is lost. Remote logic controlling such systems generally ceases to exercise control when the remote logic is disconnected in the event of a network failure. Further, some SCADA systems require the installation of special-purpose software on a computing device in order to exercise control remotely, which tends to deter users from exercising remote control of fluid-handling devices due to the burden of configuring each computer from which remote control is exercised.

SUMMARY OF THE INVENTION

[006] The following is a non-exhaustive listing of some aspects of the present techniques. These and other aspects are described in the following disclosure.

[007] In some aspects, the present techniques include a system for remotely controlling fluid-handling device of an oil well, a petro water disposal or re-injection facility, or a petroleum pumping station, the system including: an input/output module operable to communicate with a fluid-handling device; a network interface; memory; and one or more processors communicatively coupled to the input/output module, the network interface, and the memory, wherein the memory stores instructions that when executed by the processors cause the processors to effectuate steps including: receiving, via the network interface, from a remote user device, a command to change a state of the fluid-handling device to a target state; translating the received command into a translated command operative to cause a local controller of the fluid-handling device to drive the fluid-handling equipment to the target state, the local controller being responsive to the command and feedback from the fluid-handling device indicative of whether the fluid-handling device is in the target state; and sending the translated command to the local controller..

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[008] Some aspects include a tangible, non-transitory machine-readable medium storing instructions that when executed by a data processing apparatus cause the data processing apparatus to perform operations including: receiving, via the network interface, from a remote user device, a command to change a state of the fluid-handling device to a target state; translating the received command into a translated command operative to cause a local controller of the fluid-handling device to drive the fluid-handling equipment to the target state, the local controller being responsive to the command and feedback from the fluid-handling device indicative of whether the fluid-handling device is in the target state; and sending the translated command to the local controller.

[009] Some aspects include a process, including: receiving, via the network interface, from a remote user device, a command to change a state of the fluid-handling device to a target state; translating the received command into a translated command operative to cause a local controller of the fluid-handling device to drive the fluid-handling equipment to the target state, the local controller being responsive to the command and feedback from the fluid-handling device indicative of whether the fluid-handling device is in the target state; and sending the translated command to the local controller.

BRIEF DESCRIPTION OF THE DRAWINGS

[0010] The above-mentioned aspects and other aspects of the present techniques will be better understood when the present application is read in view of the following figures in which like numbers indicate similar or identical elements:

[0011] Figure 1 illustrates an example of a command-center server and site master-controller in accordance with some embodiments;

[0012] Figure 2 illustrates an example of a process by which remote control of fluid-handling devices is exercised in accordance with some embodiments; and

[0013] Figure 3 illustrates an example of a computing device by which the hardware and processes of Figures 1 and 2 may be implemented.

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[0014] While the invention is susceptible to various modifications and alternative forms, specific embodiments thereof are shown by way of example in the drawings and will herein be described in detail. The drawings may not be to scale. It should be understood, however, that the drawings and detailed description thereto are not intended to limit the invention to the particular form disclosed, but to the contrary, the intention is to cover all modifications, equivalents, and alternatives falling within the spirit and scope of the present invention as defined by the appended claims.

DETAILED DESCRIPTION OF CERTAIN EMBODIMENTS

[0015] Figure 1 illustrates a computing environment 10 having a control system 12 that, in some implementations, addresses some or all of the above-mentioned deficiencies in certain SCADA systems for exercising remote control of fluid-handling devices. As explained in greater detail below, the control system 12 of this embodiment includes a command-center server 14 and site master-controllers 16 (specifically, in this example, three such site master-controllers 18, 20, and 22) that cooperate to facilitate remote control at a fluid-handling site 24 from user devices 26 or 28 via the Internet 30. Each site master-controller 16 may be co-located with a corresponding fluid-handling site 24 and, in some embodiments, may include logic that implements remotely issued commands, such that once a command is issued from user devices 26 or 28 and received at a site master-controller 16, the site master-controller 16, in some embodiments, executes the command to completion, even if Internet access is lost before the command is fully executed. Further, the site master-controller 16 of some embodiments may be operative to translate commands into various device-specific protocols, such that a single implementation of the site master-controller 16 is relatively versatile regardless of the type of fluid-handling device being controlled. And in some implementations, the command-center server 14 may be operative to present a command interface and receive commands via a web interface in a web browser on user devices 26 and 28, such that fluid-handling devices can be controlled remotely without the need to install special-purpose software on the computing device through which remote control is exercised. It should be noted, however, that not all embodiments provide all of these benefits, as various engineering and cost trade-offs are envisioned, and some embodiments may provide other or none of these benefits.

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[0016] In some embodiments, the command-center server 14 includes a web server 32, a data store 34, and a site server 36. The command-center server 14 may act as a central node through which any of a plurality of user devices, such as user devices 26 and 28 (e.g., laptops, tablets, desktop computers, smartphones, and the like), issue commands to any of a plurality site master-controller 16, provided that such access is authorized. Only two user devices and three site master-controllers are shown for simplicity of explanation, but implementations including substantially more of each are envisioned, such as more than several hundred or several thousand user devices and more than several hundred or several thousand site master-controllers, for example. That said, embodiments are also consistent with a single user device and a single site master-controller.

[0017] The illustrated web server 32 may be operative to send instructions to present a control interface on the user devices 26 and 28, for example in a web browser on an operating system executed by processors and stored by memory of the user devices 26 or 28. The web server 32 may be operative to receive a request for such an interface from one of the user devices 26 or 28, send instructions (for example HTML JavaScript, and cascading stylesheets) to the user devices 26 that when rendered in a browser of the user devices 26 or 28, presents the control interface. The control interface may include buttons, text-input fields, and the like, that when interacted with by a user (e.g., touching, clicking, keying in text, and the like) generated events handled by the control interface and which cause corresponding commands to be sent from the user devices 26 or 28 to the command-center server 14. Other embodiments may have a special-purpose application executing on the user devices 26 and 28 for presenting the control interface and sending commands to the command-center server 14, e.g., a smartphone app that communicates via a web-based application program interface. The command-center server may interact with the user devices 26 and 28 via an Internet Protocol (IP) address of the command-center server and a port, such as port 80, which may be different from a port by which the command-center server 14 communicates with the various site master-controller 16, as described below, to keep traffic from the different components separate.

[0018] The web server 32 may also be operative to send instructions to present reports, and interfaces by which such reports are selected, to the user devices 26 or 28 responsive to user requests for such information or interfaces. As explained in greater detail below, the site master-

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controller 16 may report various process data, and the web server 32 may present this process data to users upon request. This process data may be stored in the data store 34.

[0019] In the data store 34 of some embodiments, the site master-controllers 16 may be organized according to user accounts, with each site master-controller 16 corresponding to at least one user account and some user accounts corresponding to multiple site master-controllers 16, as some users may have, for example, a plurality of oil wells or other facilities which the user wishes to control or monitor. In some embodiments, the data store 34 includes a plurality of account records, each account record having one or more user names, one or more user passwords, billing information (e.g., billing address, subscription price, and invoicing data), and identifiers of one or more site master-controllers (e.g. an IP address of each site master-controller) with which users under the corresponding account are authorized to interact (e.g., issue commands or view reports of data from the site master-controller). The data store 34 may encode such arrangements of data in a variety of formats, including a relational database, program state, hierarchical key-value pairs, a flat file, or other information encoded in a tangible, non-transitory, machine-readable medium, such as a hard drive or random access memory.

[0020] The illustrated site server 36 may be operative to interface between the command-center server 14 and the site master-controllers 16 by directing commands received via the web server 32 to the site master-controller 16 to which the command is addressed and receiving process data from the respective site master-controllers to be stored in the data store 34 or presented to the users via the web server 32. In some embodiments, the site server 36 is operative to receive a command via the web server 32, identify an IP address of the site master-controller 16 to which the command is addressed, and send the command to the respective site master-controller 16, for example via an IP address of the command set center server (which may be the same as that of the web server 32 or different) and via a port of the command-center server 14 (which may be different from a port used for the web server 32, or some embodiments may use the same port).

[0021] The data store 34, web server 32, and site server 36 may be co-located, for example in a single computing device, or these components 32 and 34 may be distributed across a number of computing devices, either co-located or physically distributed. The web server 32 and site server 36 may be operative to issue queries to the data store 34 to implement requests from the user

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devices 26 or 28, and the web server 32 may communicate with the site server 36 to effectuate commands.

[0022] In some embodiments, each site master-controller 16 controls a respective fluid-handling site 24 (only one of which is shown for site master-controller 18, though each of the other site master-controllers 20 and 22 may be associated with their own, differently located fluid-handling site, or some sites may have multiple site master controllers). The site master-controller 16 may receive commands from the command-center server 14 and implement those commands to completion, for example without further feedback to, and control signals from, the command-center server 14, such that the command can be executed even if a network connection to the command-center server 14 is temporarily lost. Further, the site master-controller 16 may be operative to report process data to the command-center server 14 for storage in the data store 34 and presentation via the web server 32 on user devices 26 and 28.

[0023] In some embodiments, the site master-controllers 16 are physically located at an associated fluid-handling site 24. For example, the site master-controller 18 may be connected to the fluid-handling site via a private network through which communications are sent without passing through the public Internet, and in some cases, the site master-controller 18 may be within a mile of the fluid-handling site 24, to give one example of co-location. The site master-controllers 16 may be geographically remote from one another, the command-center server 14, and the user devices 26 and 28 (each of which may also be remote from one another). For example, each of these components may be more than 1 mile from one another or not connected to one another via a private network. In some cases, though, some sites may have multiple site master-controllers co-located at a single site or some user devices may be co-located.

[0024] To execute commands at the fluid-handling site 24, the site master-controller 18 translates the received commands into a protocol appropriate for a corresponding fluid-handling device 38 (identified individually by reference numbers 40, 42, 44, 46, and 48). Accordingly, the features of the fluid-handling site 24 are described before addressing internal components of the exemplary site master-controller 18 to explain the environment in which the site master-controller 18 operates.

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[0025] In this embodiment, the fluid-handling site 24 includes a plurality of fluid-handling devices 38 that are fluidly coupled to a fluid source 50 or a fluid receptacle 52, such that fluids (e.g., liquids or gases) can flow to, from, or through the respective fluid-handling device 38. The illustrated embodiment includes five fluid-handling devices, but other embodiments may include different numbers of such devices coupled to the various site master-controllers 16.

[0026] The fluid-handling devices may be any of a variety of different types of devices that handle fluids. For example, the fluid-handling devices may be a valve, a pump, a process chamber (for instance a oil/water separation tank), or a process filter, or level switch. In some cases, the fluid-handling device may include an actuator, for instance an electric motor or a hydraulic drive, by which fluid flow or other parameters are manipulated, a sensor 56 by which process parameters are measured, or a local controller 58 by which power to the actuator 54 is modulated. Fluid-handling devices 38 may include a variety of types of sensors, for instance, a temperature, viscosity, flowrate, fluid level, pressure, conductivity, or other parameter sensor.

[0027] The illustrated fluid-handling device 40 is shown with feedback control of the actuator 54 by the local controller 58 based on measurements from the sensor 56, but other embodiments may include an actuator with feed-forward control, including actuators controlled by an on-off switch without sensor feedback. The local controller 58 may be operative to receive a command to drive the actuator 54 from a current setpoint to a target setpoint and control the flow of power (e.g. hydraulic or electric power) to the actuator 54 to implement the requested change of state. For instance, the controller 58 may receive a command to change a speed, pressure, or flowrate of a pump and may respond by increasing or decreasing a flow of electric or hydraulic power to an electrical or hydraulic motor driving such a pump. Or the controller 58 may receive a command to open or close a valve and, in response, may increase or decrease a flow of electric or hydraulic power to a corresponding actuator that opens or closes the valve.

[0028] In some cases, the local controllers 58 may have relatively limited processing power, such that more complicated changes in state are executed responsive to multiple commands to the respective fluid-handling device 38. For example, a fluid-handling device 38 with feed-forward control may receive a command to adjust to a target setpoint, return sensor data to the site master-controller 18, and received a subsequent command to adjust further based on a

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determination made by the site master-controller 18 based on the sensor data. In another example, a stuck-valve may be loosened by a series of commands issued from the site master-controller 18 causing a local controller 58 to oscillate between states, working the stuck-valve loose. Similarly, shocks to up-stream or down-stream fluid-handling devices may be mitigated by a series of commands gradually changing the state of a given fluid-handling device, for instance gradually ramping up or down the speed of a pump or gradually opening or closing a valve. In some embodiments, an action that affects the system, yet originates from outside the system, may use logic from a controller in the local system, such as a relatively drastic or rapid reduction in a specific tank level, which may indicate that a leak in a tank may exists, and the outside logic may provide which tank is experiencing the leak.

[0029] The site master-controller 18, in some embodiments, communicates with the fluid-handling devices 38 via a plurality of control buses 60 (individually labeled as 62, 64, and 66). Each control bus 60 may be operative to convey commands to one or more of the fluid-handling devices 38 using a different protocol. In this example, control bus 66 communicates with fluid-handling devices 42 and 40, control bus 64 communicates with fluid-handling device 44, and control bus 62 communicates with fluid-handling devices 46 and 48, but this arrangement is merely exemplary, and other embodiments may include more or fewer control buses, more or fewer fluid-handling devices per control bus, and more or fewer control buses per fluid-handling device. The control buses 60 may be serial or parallel control buses conveying digital or analog signals.

[0030] In one particular implementation, intended to serve merely as an example, the control bus 66 conveys commands and data using a serial communication protocol, such as the Modbus remote terminal unit (RTU) protocol, in which commands and other data are encoded in binary signals packaged in frames having redundant bits for detecting errors. The fluid-handling devices 40 and 42 on the bus 66, in this example, each have a unique address on the bus 66 by which commands from the site master-controller 68 are addressed to specific fluid-handling devices 40 or 42, and these addresses may be stored in memory of the site master-controller 18 as described in greater detail below. In some examples, site master-controller 18 acts as a master device on the bus 66, controlling which devices are permitted to transmit signals on the bus 66 at a given point in time. In this example, the fluid-handling devices 42 and 40 may include a bus interface

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that detects when a command is addressed to the respective fluid-handling device and stores the command for further processing, for example by a local controller 58 that implements the command. For example, fluid-handling device 40 may be a pump, and the bus 66 may convey commands to the local controller 58 to increase the speed of the actuator 54, for example an electric motor speed, to increase a pumping flowrate or pressure. In another example, the site master-controller 18 may issue a command on bus 66 to fluid-handling device 40 to return a value sensed by sensor 56, for example a measured pump speed, pressure, or flowrate.

[0031] In another aspect of this particular exemplary implementation, the bus 64 conveys a single value, for example a binary on/off value encoded in a voltage or current, or an analog control signal, encoded in a current or voltage, to one fluid-handling device 44 via a single wire (or pair of wires, if a reference different from ground is used). In some cases, the value may be a voltage ranging from 0 to 5 V, or some other range, in which a relatively low voltage, below a threshold, corresponds to an off signal, and a relatively high voltage, above a threshold, corresponds to an on signal. In some cases, the same command may be conveyed to multiple fluid-handling devices connected in series or parallel, or multiple commands may be conveyed by multiple wires in parallel to a single fluid-handling device or multiple fluid-handling devices, for instance one on-off signal per fluid-handling device. As explained in greater detail below, one or more instances the bus 64 may connect to a data acquisition board of the site master-controller 18 for manipulating voltage or current to encode commands. In one example, the bus 64 conveys a binary value to a local controller for a valve actuator as a voltage-high or voltage-low signal, commanding the valve to open or close, respectively. In some cases, instances of the bus 64 may also return data to the site master-controller 18, for example as an analog signal indicating the state of a sensor. In some embodiments, instances of the bus 64 may connect to sensors on fluid-handling devices that are also connected to the bus 66 or the bus 62, e.g., returning sensor values, while the other buses convey commands.

[0032] In another aspect of this particular exemplary implementation, the bus 62 is an Ethernet bus, forming a private local area network by which the site master-controller 18 communicates with fluid-handling devices 46 and 48 via the Ethernet protocol. Examples of various forms of constraints and set point targeting that might be implemented with such communication are described below with reference to local controllers. In this example, data is conveyed in frames

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of binary data, and each of the site master-controller 18 and the fluid-handling devices 46 and 48 are associated with a respective network address that, when included in such a frame, indicates that the frame is addressed to the associated device. Frames may include redundancy to detect corrupted frames, and access to the bus 62 may be controlled in a distributed fashion, by each device sensing whether a transmission by the device caused a collision on the bus 62, e.g., using carrier-sense multiple-access techniques with collision detection. In this example, fluid-handling devices 46 and 48 may include network interfaces, such as network interface cards or integrated devices that detect frames addressed to the corresponding fluid-handling device 46 or 48, capture the frames, and store commands encoded in the frames (e.g., in a buffer) for subsequent processing by a local controller. Similarly, the fluid-handling devices 46 and 48 may return data to the site master-controller 18, for example data from sensors of the fluid-handling devices, using the Ethernet protocol.

[0033] As noted above, the site master-controller 18, in this embodiment, like the other site master-controller 20 and 22, is operative to receive commands from the command-center server 14 and translate those commands in accordance with both protocols of the respective buses 62, 64, or 66 and command formats supported by the fluid-handling devices 38 (e.g., command codes, on-off signals, application-program interfaces, and the like, depending on the device). To this end, in this embodiment, the site master-controller 18 includes a network interface 68, a site management module 70, a protocol multiplexer 72, command translators 74 (individually labeled as 76, 78, 80), controllers 82 (individually labeled as 84, 86, 88, 90, 92, and 94), and input/output modules 96 (individually labeled as 98, 100, and 102). The site master-controller 18 may also include a report buffer 104 that stores data to be reported back to the command-center server 14.

[0034] The illustrated network interface 68 is operative to communicate with the command-center server 14 via the Internet 30 (e.g., via the Internet and other networks, such as a local area network, a cellular network, or the like). In some embodiments, the site management module 70 communicates with the network interface 68 via application program interfaces of an operating system in which the site master-controller 18 is executed.

[0035] The illustrated site-management module 70 is operative to coordinate the operation of the other components of the site master-controller 18. In some cases, the site management module 70

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monitors a network socket defined by an Internet protocol address and port of the site master-controller 18 and handles events, e.g., incoming commands, from the network socket. In some embodiments, the site-management module 70 is implemented with multiple threads, in a system in which one thread sends and receives data request; one thread controls and monitors the current state of the system, causing other threads to be synced with current information; one thread writes to writeable devices (e.g., devices having memory) to set the target state of each device; one thread that handles server interaction for updating and receiving; one thread that handles user interaction (e.g., presenting interfaces on an local display, receiving user input, and handling events from such input); and one thread that eliminates threads that become problematic.

[0036] The site manager module 70 may also be operative to transmit data with the network socket, using the network interface 68, to the command-center server 14. For example, the site manager module 70 may periodically retrieve data from the report buffer 104, such as alarms, measurements from sensors, and other data associated with the fluid-handling site 24, and push this data to the command-center server 14. Or the site management module 70 may be operative to receive requests for such data being pulled from the command-center server 14, and retrieve the corresponding data from the report buffer 104 for transmission back to the command-center server 14. Further, the site manager module 70 may be operative to request measurements, alarms, and other data from the fluid-handling devices via the components 72, 74, 82, and 96, and store this data in the report buffer 104 for transmission to the command-center server 14.

[0037] In this embodiment, when the site management module 70 receives a command via the network interface 68, or issues its own command (e.g., to poll sensors or alarm logs), the command is conveyed to a protocol multiplexer 72, which may be operative to determine which control bus 60 and fluid-handling device 38 will receive a corresponding translated command. For example, the protocol multiplexer 72 may store in memory records for communicating with the fluid-handling devices 38. Each record may correspond to a individual fluid-handling device 38 or an individual actuator or sensor of a fluid-handling device, and each record may include a unique identifier of the corresponding device, actuator, or sensor; a control bus address of the device, actuator, or sensor (for those components on a control bus that is addressable); an identifier of the control bus 62, 64, or 66 through which the site master-controller 18

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communicates with the device, actuator, or sensor; and an identifier of the protocol through which such communication occurs.

[0038] When a command is received at the protocol multiplexer 72, in some embodiments, the command includes the identifier of the device, actuator, or sensor to which the command is directed, and using this identifier, the protocol multiplexer 72 retrieves the corresponding record from memory to identify the appropriate protocol. In this example, based on the protocol in the record, the protocol multiplexer 72 selects among the command translators 74, each of which corresponds to a different protocol. For example, the command translator 80 may correspond to a protocol of control bus 66, such as the modbus RTU protocol; the command translator 78 may corresponds to a protocol of the control bus 64, such as a binary or analog voltage or current signal conveyed via a data acquisition board; and the command translator 76 may corresponds to a protocol of the control bus 62, such as the Ethernet protocol.

[0039] The command translators 74 may be operative to translate a received command from an input format to a format configured to effectuate changes in the fluid-handling devices 38. For instance, a generic command to open a valve may be sent from the control-center server 14, and that command may be translated to differently depending on the specific protocol used to communicate with the corresponding valve at a given site, with different sites potentially employing different protocols for the task. Translating commands may abstract the details of the site-specific implementations away from those implementing the command-center server 14, facilitating relatively rapid deployment of new features or sites.

[0040] In one example of translation, the command translator 80 may receive a command to increase a pump speed, and the command translator may determine a corresponding command via calculation or look-up table, such as a modbus function code and associated data, that when conveyed via the control bus 66 causes a corresponding fluid-handling device 40 or 42 to change state. In some embodiments, prior to execution, the command is checked for validity, to ensure the current conditions of the system warrant that the commanded action occur to preventing harm to the fluid-handling devices.

[0041] For example, some embodiments may store in memory accessible to the command translator 80 system constraints describing acceptable patterns of input and output parameters.

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The system constraints may be selected to prevent damage to the system, e.g., a maximum speed for a pump, a maximum or minimum liquid height for a tank, a maximum or minimum fluid pressure, a maximum or minimum flow rate, an impermissible pattern of open valves that would leak oil outside of the system, etc. A command may be compared against these constraints to determine whether the command would cause the system to violate one of the constraints. In response to determining that the command would violate a constraint, the command may be rejected, an override confirmation may be requested from the operator, or the command may be executed to the extent permitted by the constraints, for instance.

[0042] Some embodiments may execute the translated commands in different modes. For instance, in an automatic mode, the command translator 80 may select set points to keep the system within the above-described constraints, execute a process recipe in which a collection of set points are targeted, or to target other output set points given the above described constraints. In another example, the system may operate in a mixed automatic mode in which the user selects which devices are manually controlled while other devices are automatically controlled. In a third example, a manual mode, each of the devices may be controlled manually.

[0043] In another example, the command translator 78 may be operative to determine whether a command corresponds to a particular voltage or current on an individual instance of the control bus 64. For example, a command to dislodge a stuck valve may be translated by the command translator 78 into a sequence of on and off signals conveyed via a high and low voltage on an individual wire corresponding to bus 64.

[0044] In another example, the command translator 76 may be operative to translate commands into a format configured to change the state of fluid-handling devices 46 or 48. Or in some embodiments, command translator 76 is operative to pass through and un-translated command if appropriately formatted as received from the command-center server 14.

[0045] Some embodiments may include controllers 82 operative to execute control routines implicated by the translated commands on an individual device 38, actuator 54, or sensor 56. To this end, the commands translator 74, in addition to transmitting commands, may also route the translated command to a controller 82 corresponding to the specific device, actuator, or sensor to which the command is directed. The controllers 82 may determine set points corresponding to

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(or conveyed in) the command, send control signals configured to drive the fluid-handling device to the set points, and receive feedback from the fluid-handling device 38 indicative of whether the fluid-handling device 38 has achieved the target set point. In some embodiments, the controllers 82 include proportional-integral-derivative controllers for exercising feedback control, or the controllers 82 may include feed forward control algorithms (e.g., look-up tables or formulas for calculating commands based on set points). Further, in some embodiments, the controllers 82 may change the set point over time in accordance with the received command, for example a command to gradually ramp up a motor speed, a command to gradually open a valve, or a command to oscillate the position of a valve to dislodge a stuck valve. Algorithms for changing the set point may be stored in memory accessible to the controllers 82 responsive to a translated command implicating the specific algorithm.

[0046] The illustrated input/output modules 26 include, in some embodiments, link-layer devices that accommodate the particular features of the physical medium with which control buses 62, 64, and 66 are implemented. In some cases, the input/output modules 96 also perform encoding and decoding at the network and transport layer, for example packaging data in appropriately structured frames for the respective control bus 60. In one example, the input/output module 102 includes a modbus modem, the input/output module 100 includes a data acquisition board (for example a printed circuit board having one or more digital-to-analog converters or analog-to-digital converters), and the input/output module 98 includes an Ethernet network interface card.

[0047] The site master-controller 18, thus, may be operative to receive commands from the site server 36 of the command-center server 14, translate those commands, identify the appropriate control bus 60 and, if needed, address on the control bus, and implement the command once received, even if network access is lost after the command is issued from the command-center server 14. Further, the site master-controller 18, in some embodiments, is operative to retrieve sensor data, alarms, and other site data, and buffer such data in the report buffer 104, before the data is periodically returned to the command-center server 14, such that buffered data is not lost if network access ceases intermittently. Accordingly, some embodiments provide control and monitoring of remote fluid handling sites 24 that is relatively robust to interruptions in network service, and some embodiments facilitate such monitoring and control via a web browser on user devices 26 and 28, such that the addition of new devices or users is relatively simple compared to

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systems that require special purpose applications. Again though, not all embodiments provide these benefits, and some embodiments may provide other benefits.

[0048] The components of the site master-controller 18 and command-center server 14 are described above with reference to discrete functional blocks and as discrete unitary components, but it should be understood that software or hardware by which these functional blocks or components are implemented may be distributed across multiple computing systems or multiple processes within a computing system, and code, stored in a tangible, non-transitory, machine-readable medium, for providing this functionality or the functionality described below may be intermingled, conjoined, divided, or otherwise differently organized than the manner in which the functional blocks are illustrated.

[0049] Figure 2 illustrates an embodiment of a process 104 for exercising remote control of a fluid-handling site. The process 104 may be performed by the above-described site master-controllers 16, though embodiments are not limited to the implementations described above. Further, embodiments may include additional steps, fewer steps, and steps in a different order from the manner in which the process 104 is illustrated, which is not to suggest that any other feature described herein is required in all embodiments or cannot be modified.

[0050] In some embodiments, the process 104 includes receiving, via a network interface, from a remote user device, (e.g., via a command-center server) a command to change a state of a fluid-handling device to a target state, as illustrated by block 106. The command may be received from, for example, the above-describes site server 36, which may have received the command from a remote user device via a web browser of the user device. Further, the command to change the fluid-handling device to a target state may include a command that changes the fluid-handling device to a plurality of different states over time, such as a command to ramp up or down a motor speed or oscillate some parameter.

[0051] In some embodiments, the process 104 includes identifying a protocol and control bus of the fluid-handling device, as illustrated by block 108. Identifying a protocol and control bus may include parsing an identifier of a device, actuator, or sensor from the received command and retrieving a corresponding record based on the identifier, the record including an identifier of the

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protocol and control bus. In some embodiments, the retrieved record may also include an identifier of a control bus address of the corresponding device, actuator, or sensor.

[0052] In some embodiments, the process 104 includes translating the received command into a translated command based on the identified protocol, as illustrated by block 110. Examples of such translation are described above with reference to the command translators 74.

[0053] The process 104 may also include sending the translated command to a local controller of the fluid-handling device via the identified control bus, as illustrated by block 112. Sending the translated command may include exercising feedback control of the fluid-handling device based on sensor data received from the fluid-handling device by adjusting a set point sent to the local controller. Or in some use cases, sending the translated command may include sending a sequence of set points that change over time.

[0054] In some embodiments, the process 104 includes receiving sensor data from the fluid-handling device confirming that the command was executed, as illustrated by block 114. As with the other features described herein, not all embodiments include this step. Using this data, some embodiments may exercise feedback control or may retrieve sensor measurements following the execution of a command for reporting to the user device. In some cases, the sensor data is retrieved regardless of whether a command was issued, for example periodically to monitor the state of the fluid-handling device. In one example, the fluid-handling device is an oil/water separation tank, and a set point of a pump is adjusted to change a fluid level in the tank, e.g., a level at which oil meets water or a level of the oil.

[0055] In some embodiments, the received sensor data is stored in local memory, as illustrated by block 116. For example, the received sensor data may be stored in the above-described report buffer 104.

[0056] In some embodiments, the process 104 further includes periodically sending the sensor data to the remote server for reporting to the user device, as illustrated by block 118. Periodically, data from the report buffer may be transmitted to the above-described command-center server 14 for compilation of reports requested by user devices 26 to 28. Similarly, alarms

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or other log data issued by fluid-handling devices may also be retrieved, stored, and transmitted to the command-center server 14 for reporting.

[0057] Thus, systems implementing the process 104, in some embodiments, offer relatively robust control and monitoring of fluid-handling devices that are geographically distributed. This is expected to lower the costs associated with operating such fluid-handling devices and facilitate the extraction of petroleum products and other processing of fluids.

[0058] Figure 3 is a diagram that illustrates an exemplary computing system 1000 in accordance with embodiments of the present technique. Various portions of systems and methods described herein, may include or be executed on one or more computer systems similar to computing system 1000. Further, processes and modules described herein may be executed by one or more processing systems similar to that of computing system 1000.

[0059] Computing system 1000 may include one or more processors (e.g., processors 1010a-1010n) coupled to system memory 1020, an input/output I/O device interface 1030 and a network interface 1040 via an input/output (I/O) interface 1050. A processor may include a single processor or a plurality of processors (e.g., distributed processors). A processor may be any suitable processor capable of executing or otherwise performing instructions. A processor may include a central processing unit (CPU) that carries out program instructions to perform the arithmetical, logical, and input/output operations of computing system 1000. A processor may execute code (e.g., processor firmware, a protocol stack, a database management system, an operating system, or a combination thereof) that creates an execution environment for program instructions. A processor may include a programmable processor. A processor may include general or special purpose microprocessors. A processor may receive instructions and data from a memory (e.g., system memory 1020). Computing system 1000 may be a uni-processor system including one processor (e.g., processor 1010a), or a multi-processor system including any number of suitable processors (e.g., 1010a-1010n). Multiple processors may be employed to provide for parallel or sequential execution of one or more portions of the techniques described herein. Processes, such as logic flows, described herein may be performed by one or more programmable processors executing one or more computer programs to perform functions by operating on input data and generating corresponding output. Processes described herein may be

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performed by, and apparatus can also be implemented as, special purpose logic circuitry, e.g., an FPGA (field programmable gate array) or an ASIC (application specific integrated circuit). Computing system 1000 may include a plurality of computing devices (e.g., distributed computer systems) to implement various processing functions.

[0060] I/O device interface 1030 may provide an interface for connection of one or more I/O devices 1060 to computer system 1000. I/O devices may include devices that receive input (e.g., from a user) or output information (e.g., to a user). I/O devices 1060 may include, for example, graphical user interface presented on displays (e.g., a cathode ray tube (CRT) or liquid crystal display (LCD) monitor), pointing devices (e.g., a computer mouse or trackball), keyboards, keypads, touchpads, scanning devices, voice recognition devices, gesture recognition devices, printers, audio speakers, microphones, cameras, or the like. I/O devices 1060 may be connected to computer system 1000 through a wired or wireless connection. I/O devices 1060 may be connected to computer system 1000 from a remote location. I/O devices 1060 located on remote computer system, for example, may be connected to computer system 1000 via a network and network interface 1040.

[0061] Network interface 1040 may include a network adapter that provides for connection of computer system 1000 to a network. Network interface may 1040 may facilitate data exchange between computer system 1000 and other devices connected to the network. Network interface 1040 may support wired or wireless communication. The network may include an electronic communication network, such as the Internet, a local area network (LAN), a wide area (WAN), a cellular communications network or the like.

[0062] System memory 1020 may be configured to store program instructions 1100 or data 1110. Program instructions 1100 may be executable by a processor (e.g., one or more of processors 1010a-1010n) to implement one or more embodiments of the present techniques. Instructions 1100 may include modules of computer program instructions for implementing one or more techniques described herein with regard to various processing modules. Program instructions may include a computer program (which in certain forms is known as a program, software, software application, script, or code). A computer program may be written in a programming language, including compiled or interpreted languages, or declarative or

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procedural languages. A computer program may include a unit suitable for use in a computing environment, including as a stand-alone program, a module, a component, a subroutine. A computer program may or may not correspond to a file in a file system. A program may be stored in a portion of a file that holds other programs or data (e.g., one or more scripts stored in a markup language document), in a single file dedicated to the program in question, or in multiple coordinated files (e.g., files that store one or more modules, sub programs, or portions of code). A computer program may be deployed to be executed on one or more computer processors located locally at one site or distributed across multiple remote sites and interconnected by a communication network.

[0063] System memory 1020 may include a tangible program carrier having program instructions stored thereon. A tangible program carrier may include a non-transitory computer readable storage medium. A non-transitory computer readable storage medium may include a machine readable storage device, a machine readable storage substrate, a memory device, or any combination thereof. Non-transitory computer readable storage medium may include, non-volatile memory (e.g., flash memory, ROM, PROM, EPROM, EEPROM memory), volatile memory (e.g., random access memory (RAM), static random access memory (SRAM), synchronous dynamic RAM (SDRAM)), bulk storage memory (e.g., CD-ROM and/or DVD-ROM, hard-drives), or the like. System memory 1020 may include a non-transitory computer readable storage medium may have program instructions stored thereon that are executable by a computer processor (e.g., one or more of processors 1010a-1010n) to cause the subject matter and the functional operations described herein. A memory (e.g., system memory 1020) may include a single memory device and/or a plurality of memory devices (e.g., distributed memory devices). In some embodiments, the program may be conveyed by a propagated signal, such as a carrier wave or digital signal conveying a stream of packets.

[0064] I/O interface 1050 may be configured to coordinate I/O traffic between processors 1010a-1010n, system memory 1020, network interface 1040, I/O devices 1060 and/or other peripheral devices. I/O interface 1050 may perform protocol, timing or other data transformations to convert data signals from one component (e.g., system memory 1020) into a format suitable for use by another component (e.g., processors 1010a-1010n). I/O interface 1050 may include support for devices attached through various types of peripheral buses, such as a variant of the

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Peripheral Component Interconnect (PCI) bus standard or the Universal Serial Bus (USB) standard.

[0065] Embodiments of the techniques described herein may be implemented using a single instance of computer system 1000, or multiple computer systems 1000 configured to host different portions or instances of embodiments. Multiple computer systems 1000 may provide for parallel or sequential processing/execution of one or more portions of the techniques described herein.

[0066] Those skilled in the art will appreciate that computer system 1000 is merely illustrative and is not intended to limit the scope of the techniques described herein. Computer system 1000 may include any combination of devices or software that may perform or otherwise provide for the performance of the techniques described herein. For example, computer system 1000 may include or be a combination of a cloud-computing system, a data center, a server rack, a server, a virtual server, a desktop computer, a laptop computer, a tablet computer, a server device, a client device, a mobile telephone, a personal digital assistant (PDA), a mobile audio or video player, a game console, a vehicle-mounted computer, or a Global Positioning System (GPS), or the like. Computer system 1000 may also be connected to other devices that are not illustrated, or may operate as a stand-alone system. In addition, the functionality provided by the illustrated components may in some embodiments be combined in fewer components or distributed in additional components. Similarly, in some embodiments, the functionality of some of the illustrated components may not be provided or other additional functionality may be available.

[0067] Those skilled in the art will also appreciate that, while various items are illustrated as being stored in memory or on storage while being used, these items or portions of them may be transferred between memory and other storage devices for purposes of memory management and data integrity. Alternatively, in other embodiments some or all of the software components may execute in memory on another device and communicate with the illustrated computer system via inter-computer communication. Some or all of the system components or data structures may also be stored (e.g., as instructions or structured data) on a computer-accessible medium or a portable article to be read by an appropriate drive, various examples of which are described above. In some embodiments, instructions stored on a computer-accessible medium separate

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from computer system 1000 may be transmitted to computer system 1000 via transmission media or signals such as electrical, electromagnetic, or digital signals, conveyed via a communication medium such as a network or a wireless link. Various embodiments may further include receiving, sending or storing instructions or data implemented in accordance with the foregoing description upon a computer-accessible medium. Accordingly, the present invention may be practiced with other computer system configurations.

[0068] It should be understood that the description and the drawings are not intended to limit the invention to the particular form disclosed, but to the contrary, the intention is to cover all modifications, equivalents, and alternatives falling within the spirit and scope of the present invention as defined by the appended claims. Further modifications and alternative embodiments of various aspects of the invention will be apparent to those skilled in the art in view of this description. Accordingly, this description and the drawings are to be construed as illustrative only and are for the purpose of teaching those skilled in the art the general manner of carrying out the invention. It is to be understood that the forms of the invention shown and described herein are to be taken as examples of embodiments. Elements and materials may be substituted for those illustrated and described herein, parts and processes may be reversed or omitted, and certain features of the invention may be utilized independently, all as would be apparent to one skilled in the art after having the benefit of this description of the invention. Changes may be made in the elements described herein without departing from the spirit and scope of the invention as described in the following claims. Headings used herein are for organizational purposes only and are not meant to be used to limit the scope of the description.

[0069] As used throughout this application, the word “may” is used in a permissive sense (i.e., meaning having the potential to), rather than the mandatory sense (i.e., meaning must). The words “include”, “including”, and “includes” and the like mean including, but not limited to. As used throughout this application, the singular forms “a”, “an” and “the” include plural referents unless the content explicitly indicates otherwise. Thus, for example, reference to “an element” or "a element" includes a combination of two or more elements, notwithstanding use of other terms and phrases for one or more elements, such as “one or more.” The term "or" is, unless indicated otherwise, non-exclusive, i.e., encompassing both "and" and "or." Terms describing conditional relationships, e.g., "in response to X, Y," "upon X, Y,", “if X, Y,” "when X, Y," and the like,

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encompass causal relationships in which the antecedent is a necessary causal condition, the antecedent is a sufficient causal condition, or the antecedent is a contributory causal condition of the consequent, e.g., "state X occurs upon condition Y obtaining" is generic to "X occurs solely upon Y" and "X occurs upon Y and Z." Such conditional relationships are not limited to consequences that instantly follow the antecedent obtaining, as some consequences may be delayed, and in conditional statements, antecedents are connected to their consequents, e.g., the antecedent is relevant to the likelihood of the consequent occurring. Further, unless otherwise indicated, statements that one value or action is "based on" another condition or value encompass both instances in which the condition or value is the sole factor and instances in which the condition or value is one factor among a plurality of factors. Unless specifically stated otherwise, as apparent from the discussion, it is appreciated that throughout this specification discussions utilizing terms such as "processing", "computing", "calculating", "determining" or the like refer to actions or processes of a specific apparatus, such as a special purpose computer or a similar special purpose electronic processing/computing device. In the context of this specification, a special purpose computer or a similar special purpose electronic processing or computing device is capable of manipulating or transforming signals, for instance signals represented as physical electronic, optical, or magnetic quantities within memories, registers, or other information storage devices, transmission devices, or display devices of the special purpose computer or similar special purpose processing or computing device.

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PTO/AIA/01 (06-12)
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DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

Title of Invention	REMOTE CONTROL OF FLUID-HANDLING DEVICES

As the below named inventor, I hereby declare that:

This declaration is directed to:

☐ The attached application, or

☒ United States application or PCT international application number 14147190

filed on 03-JAN-2014.

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

WARNING:

Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.

LEGAL NAME OF INVENTOR

Inventor: Aaron Phillips Date (Optional): _____

Signature: _____

Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form or must have been previously filed. Use an additional PTO/AIA/01 form for each additional inventor.

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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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EFS ID:	31457429
Application Number:	15867077
International Application Number:	
Confirmation Number:	8753
Title of Invention:	REMOTE CONTROL OF FLUID-HANDLING DEVICES
First Named Inventor/Applicant Name:	Aaron Phillips
Customer Number:	909
Filer:	Joshua L. Tucker/Kathryn Seeman
Filer Authorized By:	Joshua L. Tucker
Attorney Docket Number:	034392-0456380
Receipt Date:	10-JAN-2018
Filing Date:	
Time Stamp:	15:31:13
Application Type:	Utility under 35 USC 111(a)

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Payment Type	DA
Payment was successfully received in RAM	$730
RAM confirmation Number	011118INTEFSW00002239033975
Deposit Account	
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1	Application Data Sheet	034392_0456380_Application_Data_Sheet_filed_10JAN2018.pdf	1823256 6c0cad69028b019a18a13645fae2faf45c964682	no	8
Warnings:					
Information:					
2		034392_0456380_Continuation_Patent_Application_filed_10JAN2018.pdf	226457 19dbdbea31dba1a7f1e1c8da8ecedc1e1f7510fb	yes	28

Multipart Description/PDF files in .zip description

Document Description	Start	End
Specification	1	23
Claims	24	27
Abstract	28	28

Warnings:					
Information:					
3	Drawings-only black and white line drawings	034392_0456380_Continuation_Figures_filed_10JAN2018.pdf	460108 6694d4e3fac1f811f55ca6a9fe7f447992e5debe	no	3
Warnings:					
Information:					
4	Oath or Declaration filed	034392_0456380_Signed_Declaration_filed_10JAN2018.pdf	247290 0e907d164fd42df7edbc4de4dd77f407f15c942d	no	2
Warnings:					
Information:					
5	Miscellaneous Incoming Letter	034392_0456380_General_Auth_for_Payment_filed_10JAN2018.pdf	189827 aea31e5e751f69773b8cae9a54512ba837276b3e	no	1

Warnings:					
Information:					
6	Transmittal Letter	034392_0456380_No_dup_IDS_for_cons_filed_10JAN2018.pdf	192558 22d339ca3c915729fe1556cf1fc8813f821fd169	no	1
Warnings:					
Information:					
7	Fee Worksheet (SB06)	fee-info.pdf	35222 f821c73180187c1ae87c3e722a261a43dbf40e6b	no	2
Warnings:					
Information:					
			Total Files Size (in bytes):	3174718	

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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.

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New International Application Filed with the USPTO as a Receiving Office

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STATEMENT REGARDING IDS PRACTICE

Because the present application is a continuation patent application, Applicants are electing to not burden the Office with duplicate information disclosure statements to re-cite references considered with respect to the parent application. Applicants have chosen this course in view of the Manual of Patent Examination and Procedure[1] (MPEP) 609.02, which states as follows:

> When filing a continuing application that claims benefit under 35 U.S.C. 120 to a parent application (other than an international application that designated the U.S.), it will not be necessary for the applicant to submit an information disclosure statement in the continuing application that lists the prior art cited by the examiner in the parent application unless the applicant desires the information to be printed on the patent issuing from the continuing application (for continued prosecution applications filed under 37 CFR 1.53(d), see subsection A.1. below). The examiner of the continuing application will consider information which has been considered by the Office in the parent application.
>
> ...
>
> The examiner will consider information which has been considered by the Office in a parent application when examining: (A) a continuation application filed under 37 CFR 1.53(b), (B) a divisional application filed under 37 CFR 1.53(b), or (C) a continuation-in-part application filed under 37 CFR 1.53(b). A listing of the information need not be resubmitted in the continuing application unless the applicant desires the information to be printed on the patent.

Applicants understanding is that the Examiner will consider the references listed on the face of (or otherwise indicated as being considered against) parent applications.

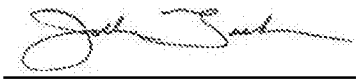
Moreover, to avoid later mischaracterizations of the examination process by accused infringers before judges or juries less familiar with the intricacies of the MPEP, Applicants wish to note on the record that, as a result of this practice of the U.S. Patent Office, the face of a patent issuing from the present application will not necessarily contain a full list of references considered. One must also review the file history of the parent applications to ascertain the full corpus of references considered against the present application.

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[1] The forward to the MPEP states as follows: "This Manual is published to provide U.S. Patent and Trademark Office (USPTO) patent examiners, applicants, attorneys, agents, and representatives of applicants with a reference work on the practices and procedures relative to the prosecution of patent applications before the USPTO. It contains instructions to examiners, as well as other material in the nature of information and interpretation, and outlines the current procedures which the examiners are required or authorized to follow in appropriate cases in the normal examination of a patent application."

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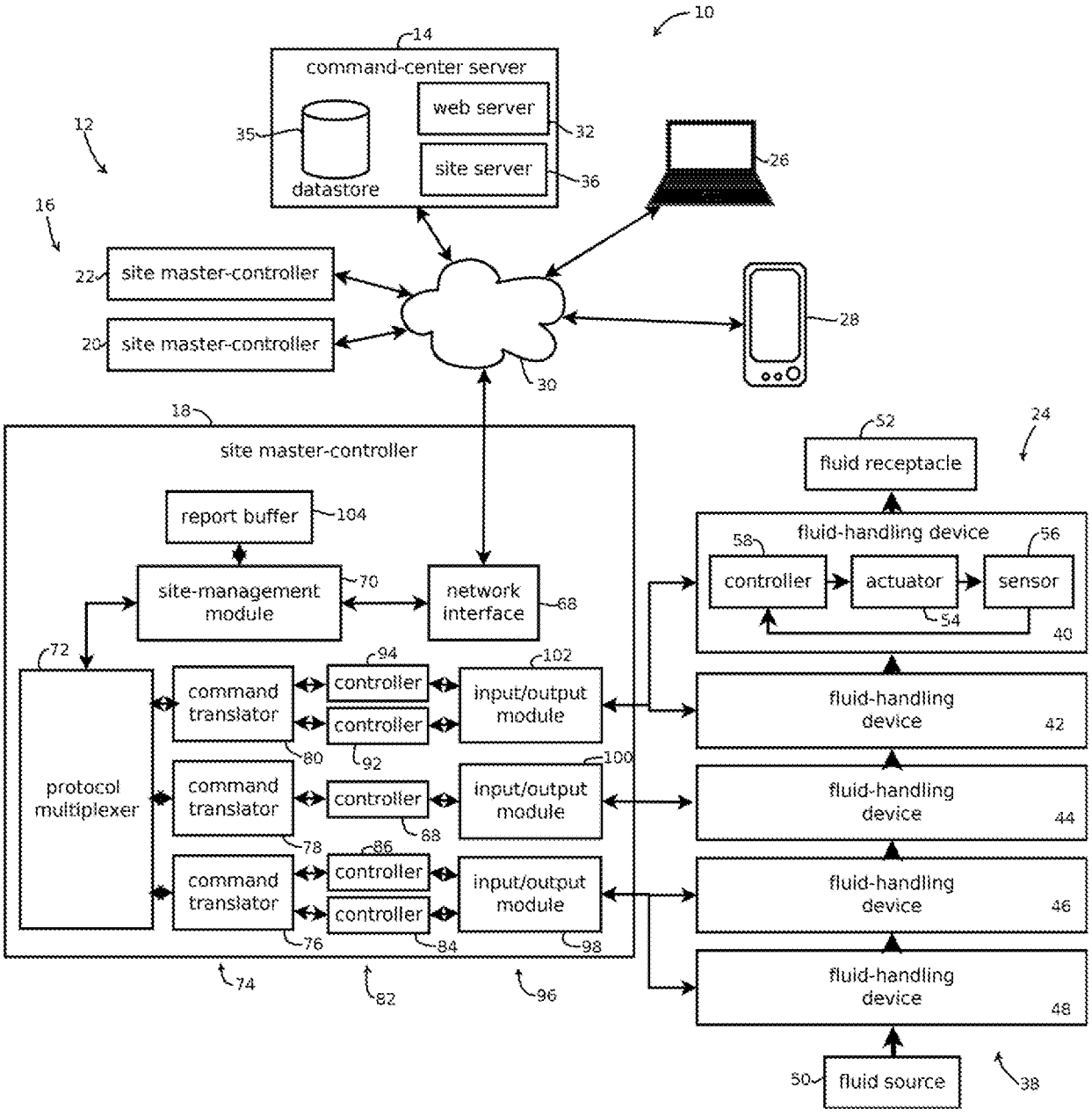

10
14
command-center server
web server
32
35
datastore
site server
36
12
26
16
22
site master-controller
20
site master-controller
28
30
18
site master-controller
report buffer
104
site-management module
70
network interface
68
72
protocol multiplexer
command translator
80
command translator
78
command translator
76
94
controller
controller
92
controller
88
controller
86
controller
84
102
input/output module
100
input/output module
98
74
82
96
24
52
fluid receptacle
fluid-handling device
58
56
controller
actuator
sensor
54
40
fluid-handling device
42
fluid-handling device
44
fluid-handling device
46
fluid-handling device
48
50
fluid source
38

FIG. 1

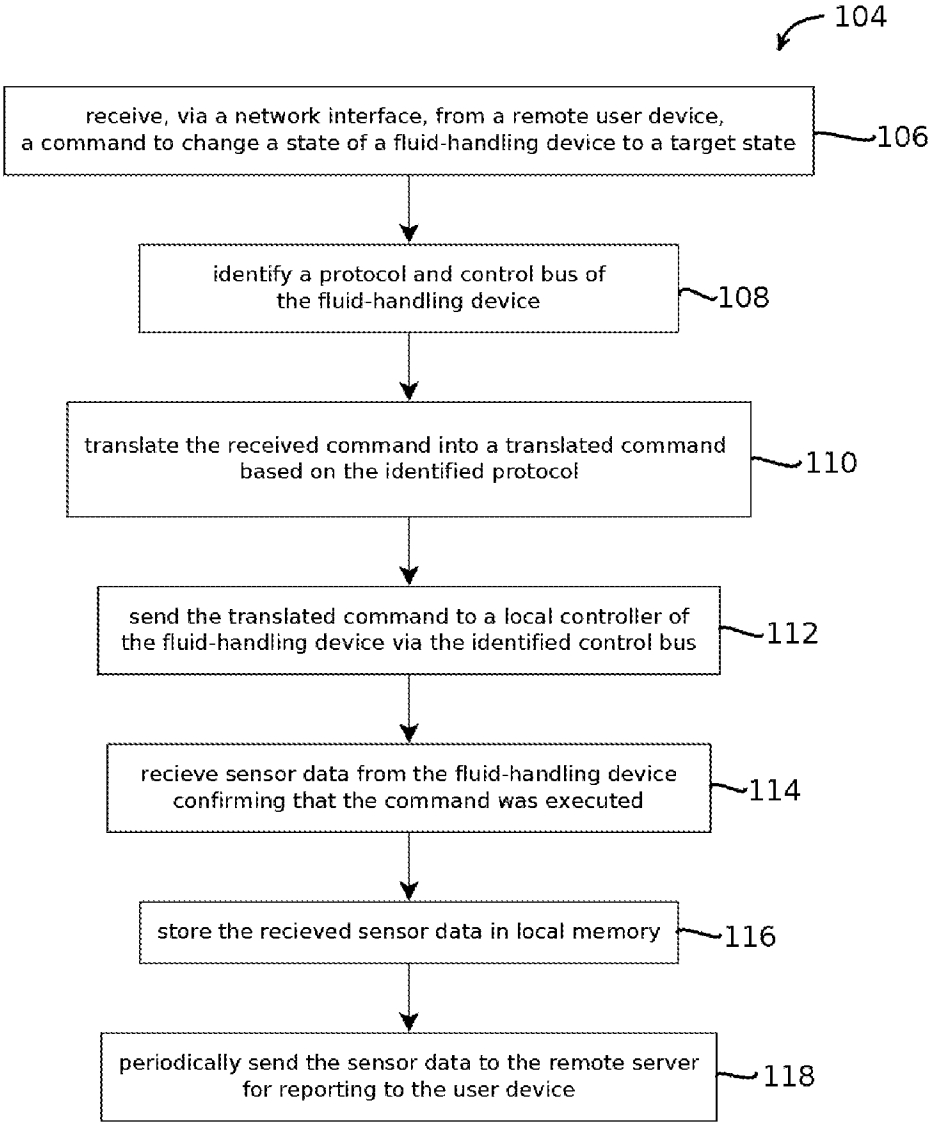

104
receive, via a network interface, from a remote user device, a command to change a state of a fluid-handling device to a target state
106
identify a protocol and control bus of the fluid-handling device
108
translate the received command into a translated command based on the identified protocol
110
send the translated command to a local controller of the fluid-handling device via the identified control bus
112
recieve sensor data from the fluid-handling device confirming that the command was executed
114
store the recieved sensor data in local memory
116
periodically send the sensor data to the remote server for reporting to the user device
118

FIG. 2

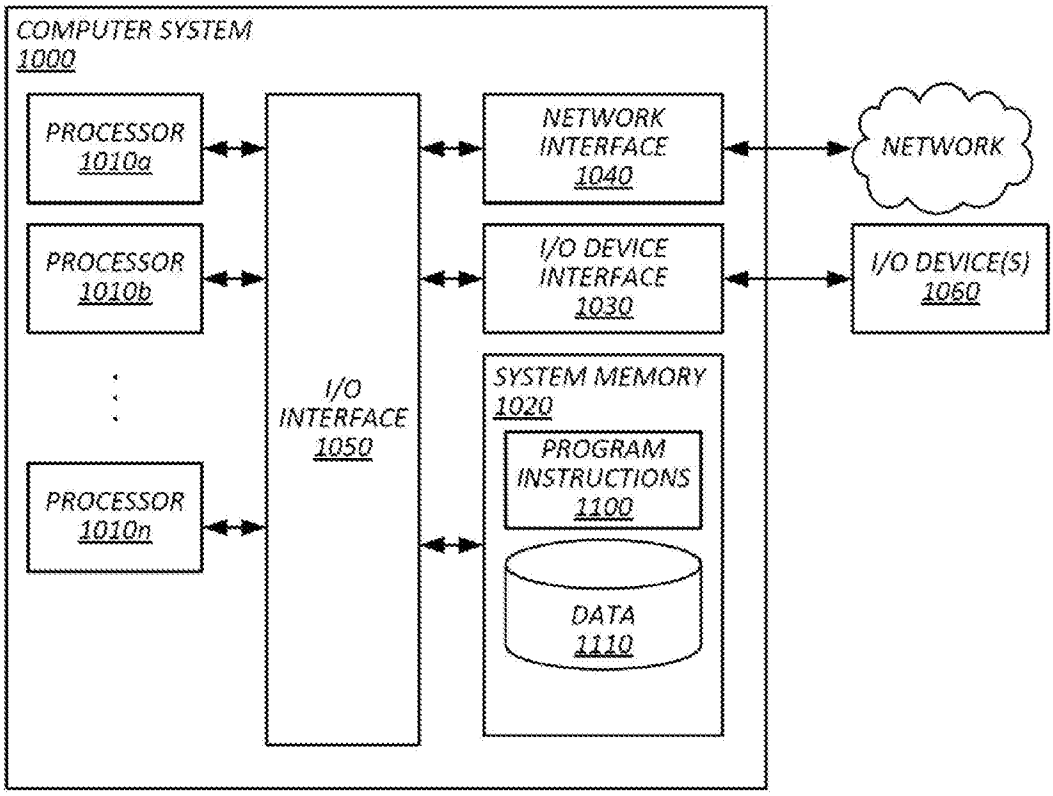

COMPUTER SYSTEM
1000
PROCESSOR
1010a
PROCESSOR
1010b
PROCESSOR
1010n
I/O
INTERFACE
1050
NETWORK
INTERFACE
1040
I/O DEVICE
INTERFACE
1030
SYSTEM MEMORY
1020
PROGRAM
INSTRUCTIONS
1100
DATA
1110
NETWORK
I/O DEVICE(S)
1060

FIG. 3

CLAIMS

What is claimed is:

1. A hosted, web-based, remote industrial monitoring and control system for geographically distributed facilities in oil and gas fields, the system comprising:

a computer-implemented datastore storing:

a plurality of accounts, each account corresponding to an entity operating one or more geographically distributed oil or gas facilities, the accounts associating different oil or gas facilities with different entities; and

network addresses by which industrial monitoring or control equipment at the facilities is accessible via cellular network connections, the monitoring or control equipment including sensors or actuators;

a computer-implemented facility-interface module or modules configured to obtain data from the sensors at the facilities and send commands to the actuators at the facilities via the cellular network connections; and

a computer-implemented web-interface module or modules configured to send instructions to present control interfaces in web browsers executing on user computing devices logged in to the accounts and to receive commands to control actuators from the user computing devices,

wherein the system is configured to receive, with the web-interface module or modules, a user command to actuate an actuator entered via a presented control interface, identify a network address in the datastore corresponding to a facility at which the actuator is located, and send instructions with the facility-interface module or modules to the facility to actuate the actuator.

2. The system of claim 1, wherein the sensors include a tank level sensor of a tank at one of the facilities, and wherein the datastore includes a record associating the tank with the facility, data from the tank being unavailable to users without an account associated with the tank.

3. The system of claim 1, wherein the sensors include a level sensor of an oil/water separation tank at one of the facilities configured to indicate a level at which oil meets water, and wherein the datastore includes a record associating the tank with the facility.

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4. The system of claim 1, wherein the sensors include a leak detector at one of the facilities, and wherein the datastore includes a record associating the leak detector with the facility.

5. The system of claim 1, wherein:

the web-interface module or modules comprises a web server; and

the facility-interface module or modules comprises a site server distinct from the web server.

6. The system of claim 5, wherein:

the web server communicates with user devices via a first network port of a computing device executing the web server; and

the site server communicates with facilities via a second network port of the computing device, the second network port being different from the first network port.

7. The system of claim 1, wherein:

the data store stores subscription information associated with at least some of the accounts.

8. The system of claim 1, wherein the facility-interface module or modules comprise:

means for interfacing with a plurality of site controllers associated with the facilities.

9. The system of claim 1, wherein the web-interface module or modules comprise:

means for sending instructions to present a control interface on the user devices.

10. The system of claim 1, wherein the datastore stores accounts for more than one hundred facilities, and the web-interface module or modules are configured interface with more than one hundred user devices.

11. The system of claim 1, wherein the facility-interface module or modules are configured to send pull requests to facilities to retrieve data buffered at the facilities.

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12. The system of claim 1, comprising:

a controller at one of the facilities communicatively coupled to an actuator or a sensor.

13. The system of claim 12, comprising at least four of the following as distinct threads from one another:

a thread configured to sends and receive data requests;

a thread configured to synchronize other threads with updated information;

a thread configured to set a target state of actuators;

a thread configured to obtain updated sensor readings;

a thread configured to process user interactions; and

a thread that eliminates other threads upon detecting a problem with the eliminated threads.

14. The system of claim 12, comprising at least two of the following as distinct threads from one another:

a thread configured to sends or receive data request;

a thread configured to synchronize other threads with updated information;

a thread configured to set a target state of actuators;

a thread configured to obtain updated sensor readings;

a thread configured to process user interactions; and

a thread that eliminates other threads upon detecting a problem with the eliminated threads.

15. The system of claim 12, wherein the controller is communicatively coupled to the actuator or sensor via a private local area network.

16. The system of claim 12, wherein controller is communicatively coupled to the actuator or sensor via a frame-based carrier-sense multiple access protocol with collision detection.

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17. The system of claim 12, wherein controller is configured to periodically push buffered data to the facility-interface module or modules.

18. The system of claim 12, comprising:

means for ensuring at least some data is not lost if network access ceases intermittently.

19. The system of claim 12, comprising:

means for translating a command for an actuator from an input format to a format configured to effectuate changes in the actuator.

20. The system of claim 19, comprising:

means for executing control routines implicated by translated commands on an individual actuator or sensor.

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PTO/AIA/14 (11-15)
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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	034392-0456380
	Application Number	
Title of Invention	REMOTE CONTROL OF FLUID-HANDLING DEVICES	

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
	Aaron		Phillips	

Residence Information (Select One) ● US Residency Non US Residency Active US Military Service

City	Lubbock	State/Province	TX	Country of Residence	US

Mailing Address of Inventor:

Address 1	2806 87th Street
Address 2	

City	Lubbock	State/Province	TX
Postal Code	79423	Country	US

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).

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

Customer Number	00909		
Email Address	docket_ip@pillsburylaw.com	Add Email	Remove Email

Application Information:

Title of the Invention	REMOTE CONTROL OF FLUID-HANDLING DEVICES		
Attorney Docket Number	034392-0456380	Small Entity Status Claimed	☒
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	3	Suggested Figure for Publication (if any)	

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	034392-0456380
	Application Number	
Title of Invention	REMOTE CONTROL OF FLUID-HANDLING DEVICES	

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	00909		

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	Pending		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
	Continuation of	14984422	2015-12-30

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IPR2024-00741-U.S. Patent No. 10,488,871

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	034392-0456380
	Application Number	
Title of Invention	REMOTE CONTROL OF FLUID-HANDLING DEVICES	

Prior Application Status	Patented	Remove

Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
14984422	Continuation of	14147190	2014-01-03	9342078	2016-05-17

Prior Application Status	Patented	Remove

Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
14147190	Continuation of	13708557	2012-12-07	8649909	2014-02-11

Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the **Add** button. Add

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).

Remove

Application Number	Country[i]	Filing Date (YYYY-MM-DD)	Access Code[i] (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	034392-0456380
	Application Number	
Title of Invention	REMOTE CONTROL OF FLUID-HANDLING DEVICES	

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)

☐ A. Applicant **DOES NOT** authorize the USPTO to permit a participating foreign IP office access to the instant application-as-filed. If this box is checked, the USPTO will not be providing a participating foreign IP office with any documents and information identified in subsection 1A above.

☐ B. Applicant **DOES NOT** authorize the USPTO to transmit to the EPO any search results from the instant patent application. If this box is checked, the USPTO will not be providing the EPO with search results from the instant application.

NOTE: Once the application has published or is otherwise publicly available, the USPTO may provide access to the application in accordance with 37 CFR 1.14.

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	034392-0456380
	Application Number	
Title of Invention	REMOTE CONTROL OF FLUID-HANDLING DEVICES	

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	

If applicant is the legal representative, indicate the authority to file the patent application, the inventor is:

Name of the Deceased or Legally Incapacitated Inventor:

If the Applicant is an Organization check here. ☒

Organization Name	AmpliSine Labs, LLC.		
Mailing Address Information For Applicant:			
Address 1	9502 HWY 87		
Address 2			
City	Lubbock	**State/Province**	TX
Country	US	Postal Code	79423
Phone Number		Fax Number	
Email Address			

Additional Applicant Data may be generated within this form by selecting the Add button. Add

Assignee Information including Non-Applicant Assignee Information:

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	034392-0456380
	Application Number	
Title of Invention	REMOTE CONTROL OF FLUID-HANDLING DEVICES	

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.

Remove

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Prefix	**Given Name**	Middle Name	**Family Name**	Suffix

Mailing Address Information For Assignee including Non-Applicant Assignee:

Address 1			
Address 2			
City		**State/Province**	
Country i		Postal Code	
Phone Number		Fax Number	
Email Address			

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Signature:

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NOTE: This Application Data Sheet must be signed in accordance with 37 CFR 1.33(b). **However, if this Application Data Sheet is submitted with the INITIAL filing of the application and either box A or B is not checked in subsection 2 of the "Authorization or Opt-Out of Authorization to Permit Access" section, then this form must also be signed in accordance with 37 CFR 1.14(c).**

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	/Joshua Tucker/			Date (YYYY-MM-DD)	2018-01-10
First Name	Joshua	Last Name	Tucker	Registration Number	63809

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	034392-0456380
	Application Number	
Title of Invention	REMOTE CONTROL OF FLUID-HANDLING DEVICES	

This collection of information is required by 37 CFR 1.76. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 23 minutes to complete, including gathering, preparing, and submitting the completed application data sheet form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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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 the Freedom of Information Act requires disclosure of these records.

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 CooperationTreaty.

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.

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.

ABSTRACT

[0070] Provided is a process, including: receiving, via the network interface, from a remote user device, a command to change a state of the fluid-handling device to a target state; translating the received command into a translated command operative to cause a local controller of the fluid-handling device to drive the fluid-handling equipment to the target state, the local controller being responsive to the command and feedback from the fluid-handling device indicative of whether the fluid-handling device is in the target state; and sending the translated command to the local controller

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