

Nicolas Vargas

Search history

- Search PN=(WO2016181374) (Results 1)
1:
Search fn=(62613563) (Results 1)
2:
Search [SP]: telemetry transmission device for meters, arranged in the ground and powered by a solar cell dispositif de transmission de telemesure de compteurs au sol alimentes par une cellule solaire dispositivo de transmision de telemetria de medidores en piso con alimentacion por celda solar the invention relates to a telemetry transmission device for flowmeters with power supplied by a solar cell and a unit set in the ground with an inclined outer frame, which operates as an emitter and receiver of information and actions by radiofrequency, forming part of a structural unit secured in the ground and with electromechanical coupling to the meter.l'invention concerne un dispositif de transmission de telemesure de compteurs de flux alimentes par cellule solaire et une unite incrustee dans le sol presentant un cadre exterieur incline, qui fait office d'emetteur et de recepteur d'informations et d'actions par radiofrequences, qui fait partie d'une unite structurale fixee au sol et a accouplement electromecanique au compteur.la invencion se refiere a un dispositivo de transmision de telemetria de medidores de flujo con alimentacion por celda solar y una unidad incrustada en el piso con un marco exterior inclinado, que se ejecuta como emisor y receptor de informacion y acciones por radiofrecuencia, que forma parte de una unidad estructural fijada el piso y con acoplamiento electromecanico al medidor. (Results 0)
Search TAC=(flow meter* and telemetry) (Results 80)
4:
Search 4 and gas and electricity and water (Results 7)
5:

1) Family number: 30190026 (US6612186B)

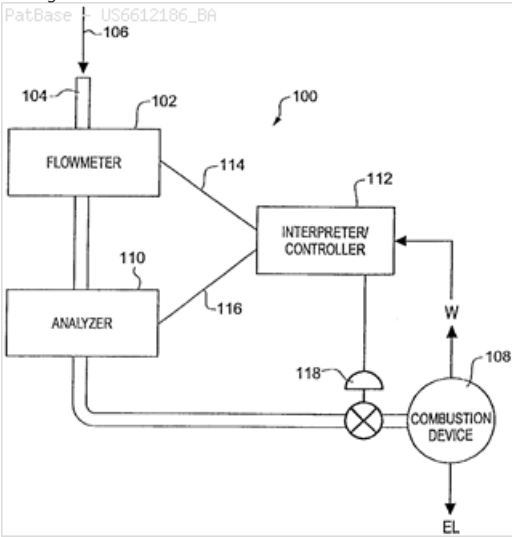
© PatBase

Title: Mass fraction metering device

Abstract: An energy metering device includes a volumetric flow meter or mass flow meter in combination with a gas analyzer that provides telemetry regarding the constituents of a natural gas flow stream. An interpreter analyzes this information and provides a real time output corresponding to the enthalpy of combustion for the gas stream. This output is used to adjust or throttle the gas flow stream for purposes of delivering the flow stream according to a preselected parameter, which is related to desired operating conditions for a combustion device including a boiler or an engine.

Classifications:

International (ipc 8-9): F23K5/00 G01F G01F1/00 G01F1/76 G01F1/84 G01F1/86 G01K17/00 G01K17/06 G01N G01N25/22 G01N33/22 G01N33/28 (Advanced/Invention); G01F1/84 G01N30/86 (Advanced/Non-invention); F23K5/00 G01F1/76 G01K17/00 G01N25/20 G01N33/22 G01N33/26 (Core/Invention)
International (ipc 1-7): F23K5/00 G01F1/00 G01F1/74 G01F1/76 G01F1/84 G01F1/86 G01K17/00 G01N033/22 G01N25/22 G01N33/22
CPC: G01F1/84 G01N33/225
European: G01F1/84 G01N33/22C
US: 73/861 73/861.04



Family:

Publication number	Publication date	Application number	Application date
AR027333 AA	20030326	AR2001P100425	20010130
AT355509 E	20060315	AT20010908602T	20010111
AU2001236451 AA	20010827	AU20010236451	20010111
AU2001236451 BB	20040708	AU20010236451	20010111
AU200136451 A1	20010827	AU20010036451	20010111
AU200136451 A5	20010827	AU20010036451	20010111
BRPI0108286 A	20021029	BR2001PI08286	20010111
BRPI0108286 B1	20130507	BR2001PI08286	20010111
CA2398119 AA	20020722	CA20012398119	20010111
CA2398119 C	20080805	CA20012398119	20010111
CN1180227 C	20041215	CN20018005175	20010111

CN1401071 A	20030305	CN20018005175	20010111
DE60126916 D1	20070412	DE20016026916	20010111
DE60126916 D1	20070412	DE20016026916T	20010111
DE60126916 T2	20070628	DE20016026916T	20010111
DK1255967 T3	20070618	DK20010908602T	20010111
EP1255967 A1	20021113	EP20010908602	20010111
EP1255967 B1	20070228	EP20010908602	20010111
HK1052967 A1	20050916	HK20030105147	20030716
HK1052967 B	20050916	HK20030105147	20030716
IN204226 B	20070629	IN2002CN01415	20020906
JP2003523508 T2	20030805	JP20010560631T	20010111
JP4338927 B2	20091007	JP20010560631T	20010111
KR100528818 B1	20051122	KR20027010683	20010111
KR20020086544 A	20021118	KR20027010683	20010111
MXPA02007830 A1	20030210	MX2002PA07830	20010111
PL198147 B1	20080530	PL20010356440	20010111
PL356440 A1	20040628	PL20010356440	20010111
RU2002124609 A	20040327	RU20020124609	20010111
RU2251082 C2	20050427	RU20020124609	20010111
US6612186 BA	20030902	US20000505276	20000216
WO0161285 A1	20010823	WO2001US01005	20010111

Priority:

US20000505276 20000216 US20010505276 20010111 WO2001US01005 20010111
KR20027010683 20020816

Probable Assignee: MICRO MOTION INC

Assignee(s): (std): MICRO MOTION ; MICRO MOTION INC ; MIRCO MOTION INC

Assignee(s): O BANION THOMAS A ; PATTEN ANDREW T ; VALENTINE JULIE ANN ; MICRO MOTION INC 7070 WINCHESTER CIRCLE BOULDER COLORADO 80301 UNITED

Inventor(s): (std): BANIENT T A O ; O BANION THOMAS A ; PATTEN A T ; PATTEN ANDREW T ; VALENTINE J A ; VALENTINE JULIE ANN ; VALENTIN ZHJULI EHNN ; O BANION TOMAS A ; O BANIENT T A ; JULIE ANN VALENTINE ; JA VALENTINE ; AT PATTEN ; PEHTTEN EHNDRIJ T

Inventor(s): O'BANION TOMAS A. ; ANDREW T PATTEN ; T A O BANIENT ; J A VALENTINE ; A T PATTEN ; THOMAS A O BANION ; TA O BANIENT

Agent(s): DAVIES COLLISON CAVE PTY LTD; DAVIES COLLISON CAVE; BORDEN LADNER GERVAIS LLP; CHINA PATENT AGENT HK LTD 22 F GREAT EAGLE CENTRE 23 HARBOUR ROAD WANCHAI; MASUI CHUJI; TOMITA HIROYUKI; SHAMOTO ICHIO; KOBAYASHI YASUSHI; CHIBA AKIO; TANAKA HIDEO

Designated states: AT AU BE BR CA CH CN CY DE DK ES FI FR GB GR ID IE IN IT JP KR LI LU MC MX NL PL PT RU SE SG TR

2) Family number: 43836157 (US2009282822A)

© PatBase

Title: SYSTEMS AND METHODS FOR ENERGY STORAGE AND RECOVERY USING COMPRESSED **GAS**

Abstract: The invention relates to methods and systems for the storage and recovery of energy using open-air hydraulic-pneumatic accumulator and intensifier arrangements that combine at least one accumulator and at least one intensifier in communication with a high-pressure **gas** storage reservoir on a **gas**-side of the circuits and a combination fluid motor/pump, coupled to a combination electric generator/motor on the fluid side of the circuits.

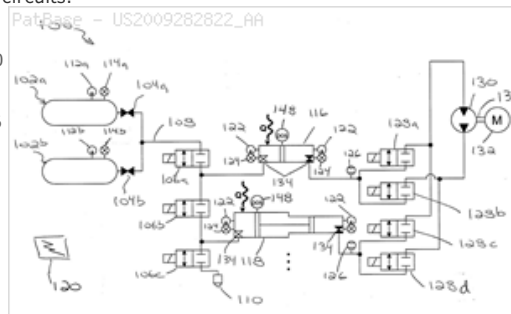
Classifications:

International (IPC 8-9): B60K6/12 B66F7/18 E03B5/00 F01B1/00 F01B23/10 F01B29/00 F01B5/00 F01B7/16 F01B9/00 F01B9/02 F01D15/00 F01D15/08 F01D15/10 F01K1/00 F01K13/00 F01K21/02 F01K21/04 F01K25/02 F01K27/00 F01K3/00 F01K7/00 F02B23/04 F02B71/04 F02C1/02 F02C1/04 F02G1/02 F02G1/04 F02G1/043 F02G1/053 F02G1/06 F03B17/06 F03G3/00 F03G6/00 F03G7/00 F03G7/04 F04B17/00 F04B17/04 F04B35/00 F04B35/04 F04B49/00 F04B7/00 F04D13/06 F04D15/00 F15B1/02 F15B1/027 F15B11/072 F15B13/00 F15B13/042 F15B15/00 F15B21/00 F15B21/04 F16D31/00 F16D31/02 F17C5/00 F17C7/00 F28D20/02 H02J15/00 H02K7/18 (Advanced/Invention); F03B17/00 F15B1/02 (Advanced/Non-invention); B60K6/00 B66F7/10 F01K25/00 F02B71/00 F02C1/00 F02G1/00 F03G6/00 F03G7/00 F15B1/00 F15B11/00 F16D31/02 F17C5/00 F17C7/00 H02J15/00 (Core/Invention)

CPC: B60K6/12 B60Y2400/14 F01K27/00 F15B11/0725 Y02T10/6208 F15B2201/42 F03G7/04 F02C6/16 F03G6/00 Y02E10/46 Y02E60/15 Y02T10/16 Y02E20/14 F02G1/02 F15B15/00 F15B1/02 F01K7/00 F02B23/04 Y10T137/86051 F15B1/024 Y02P80/13 F15B11/032 F15B21/08 F15B21/14 F15B2211/20569 F15B2211/212 F15B2211/214 F15B2211/216 F15B2211/30505 F15B2211/3057 F15B2211/30575 F15B2211/3058 F15B2211/3111 F15B2211/31594 F15B2211/327 F15B2211/40515 F15B2211/41509 F15B2211/41554 F15B2211/426 F15B2211/45 F15B2211/50581 F15B2211/5153 F15B2211/62 F15B2211/6309 F15B2211/7058 H02J15/006 Y02E10/28 Y02P90/50 Y02T10/125 F04B17/03

European: F02C6/16 F03G6/00 F03G7/04 F04B17/03 F15B1/02D F15B11/032 F15B21/08 H02J15/00D R15B2211/205D40 R15B2211/210B R15B2211/210D R15B2211/210F R15B2211/305B R15B2211/305H10B R15B2211/305H10D R15B2211/305H10F R15B2211/310B10 R15B2211/315H40 R15B2211/320D R15B2211/405D R15B2211/415B R15B2211/415F R15B2211/420D R15B2211/450 R15B2211/505F20 R15B2211/515D R15B2211/620 R15B2211/630B10B R15B2211/705D T02J15/00D Y02E10/10 Y02E10/20 Y02E10/46 Y02E20/14 Y02E60/14D Y02E60/15

Family:



Publication number	Publication date	Application number	Application date
CN102498638 A	20120613	CN201080023654	20100402
CN102498638 B	20151125	CN201080023654	20100402
EP2280841 A2	20110209	EP20090729953	20090409
EP2415141 A1	20120208	EP20100728466	20100402
KR101493126 B1	20150212	KR20117026187	20100402
KR20120005489 A	20120116	KR20117026187	20100402
KR20140113746 A	20140924	KR20147023884	20100402
US2009282822 AA	20091119	US20090421057	20090409
US2009301089 AA	20091210	US20090481235	20090609
US2010089063 AA	20100415	US20090639703	20091216
US2010139277 AA	20100610	US20100712799	20100225
US2010205960 AA	20100819	US20100690513	20100120
US2011056193 AA	20110310	US20100945398	20101112
US2011056368 AA	20110310	US20100879595	20100910
US2011079010 AA	20110407	US20100966776	20101213
US2011083438 AA	20110414	US20100966773	20101213
US2011107755 AA	20110512	US20100966855	20101213
US2011131966 AA	20110609	US20110026677	20110214
US2011167813 AA	20110714	US20110012610	20110124
US2011219760 AA	20110915	US20110012323	20110124
US2011219763 AA	20110915	US20110009409	20110119
US2011232281 AA	20110929	US20110108325	20110516
US2011266810 AA	20111103	US20100938853	20101103
US2011283690 AA	20111124	US20110094960	20110427
US2011296823 AA	20111208	US20110154996	20110607
US2011314803 AA	20111229	US20110105986	20110512
US2012000557 AA	20120105	US20110080910	20110406
US2012006013 AA	20120112	US20110221559	20110830
US2012036851 AA	20120216	US20110234239	20110916
US2012047884 AA	20120301	US20110221563	20110830
US2012119513 AA	20120517	US20120351367	20120117
US2012279209 AA	20121108	US20120488787	20120605
US2012297776 AA	20121129	US20120564430	20120801
US2012299310 AA	20121129	US20120532474	20120625
US2013160437 AA	20130627	US20120727015	20121226
US2013269330 AA	20131017	US20130871758	20130426
US2013298760 AA	20131114	US20130911536	20130606
US2013327029 AA	20131212	US20130910643	20130605
US2013327033 AA	20131212	US20130909730	20130604
US2014047825 AA	20140220	US20130048253	20131008
US2014234123 AA	20140821	US20130107731	20131216
US7802426 BB	20100928	US20090481235	20090609
US7832207 BB	20101116	US20090421057	20090409
US7874155 BB	20110125	US20100712799	20100225
US7900444 BA	20110308	US20100945398	20101112
US7958731 BB	20110614	US20100690513	20100120
US8037678 BB	20111018	US20100879595	20100910
US8109085 BB	20120207	US20100966855	20101213
US8117842 BB	20120221	US20110026677	20110214
US8122718 BB	20120228	US20100966773	20101213
US8209974 BB	20120703	US20110012323	20110124
US8225606 BB	20120724	US20090639703	20091216
US8234862 BB	20120807	US20110108325	20110516
US8240140 BB	20120814	US20110221559	20110830
US8240146 BA	20120814	US20100870307	20100827
US8250863 BB	20120828	US20110094960	20110427
US8359856 BB	20130129	US20110009409	20110119
US8448433 BB	20130528	US20110154996	20110607
US8468815 BB	20130625	US20120351367	20120117
US8474255 BB	20130702	US20110105986	20110512
US8479505 BB	20130709	US20110080910	20110406
US8627658 BB	20140114	US20110012610	20110124
US8677744 BB	20140325	US20110234239	20110916
US8713929 BB	20140506	US20120488787	20120605
US8733094 BB	20140527	US20120532474	20120625
US8733095 BB	20140527	US20120727015	20121226
US8763390 BB	20140701	US20120564430	20120801
WO09126784 A2	20091015	WO2009US40027	20090409
WO09126784 A3	20091203	WO2009US40027	20090409
WO09152141 A2	20091217	WO2009US46725	20090609
WO09152141 A3	20100204	WO2009US46725	20090609
WO10115112 A1	20101007	WO2010US29795	20100402
WO11056855 A1	20110512	WO2010US55279	20101103

Priority:

US20080043630P	20080409	US20080059964P	20080609	US20090145864P	20090120
US20090145860P	20090120	US20090146432P	20090122	US20090148481P	20090130
US20090148691P	20090130	US20090151332P	20090210	US20090166448P	20090403
US20090421057	20090409	WO2009US40027	20090409	US20090184166P	20090604
US20090184191P	20090604	US20090481235	20090609	US20090222286P	20090701
US20090223564P	20090707	US20090227222P	20090721	US20090241568P	20090911
US20090242526P	20090915	US20090251965P	20091015	US20090256576P	20091030
US20090256484P	20091030	US20090257583P	20091103	US20090264317P	20091125
US20090266758P	20091204	US20090639703	20091216	US20090287938P	20091218
US20100690513	20100120	US20100712799	20100225	US20100310070P	20100303
US20100318060P	20100326	WO2010US29795	20100402	US20100322115P	20100408
US20100326453P	20100421	US20100328345P	20100427	US20100328408P	20100427
US20100334722P	20100514	US20100349009P	20100527	US20100794237	20100604
US20100363072P	20100709	US20100375398P	20100820	US20100870307	20100827
US20100378108P	20100830	US20100879595	20100910	US20100384814P	20100921
US20100393725P	20101015	US20100407798P	20101028	US20100938853	20101103
US20100945398	20101112	US20100412959P	20101112	US20100421964P	20101210
US20100966776	20101213	US20100966773	20101213	US20100966855	20101213
US20110433016P	20110114	US20110009409	20110119	US20110012610	20110124
US20110012323	20110124	US20110026677	20110214	US20110080910	20110406
US20110094960	20110427	US20110105986	20110512	US20110108325	20110516
US20110486550P	20110516	US20110154996	20110607	US20110494473P	20110608
US20110513215P	20110729	US20110221559	20110830	US20110221563	20110830
US20110234239	20110916	US20120351367	20120117	US20120488787	20120605
US20120532474	20120625	US20120564430	20120801	US20120727015	20121226
US20130871758	20130426	US20130909730	20130604	US20130910643	20130605
US20130911536	20130606	US20130048253	20131008	US20130107731	20131216

Probable Assignee: SUSTAINX INC

Assignee(s): (std): FAIRFAX STEPHEN A ; FAIRFAX STEVEN ; FAIRFAX STEVEN A ; SUSTAINX INC ; MCBRIDE TROY O ; RICHTER HORST ; MAGARI PATRICK ; IZENSON MICHAEL ; SHANG ANDREW ; SCOTT MICHAEL N ; SCOTT MICHEAL N ; SCOTT MICHAEL NEIL ; KEPSHIRE DAX ; SCHAEFER MICHAEL ; MODDERNO JEFFREY ; MAGARI PATRICK J ; SHAEFER MICHAEL ; SCOTT MICHEAL NEIL ; BELL ALEXANDER ; BOLLINGER BENJAMIN ; BOLLINGER BENJAMIN R ; CAMERON BENJAMIN ; CHEN WEIBO ; COOK ROBERT ; DOYLE LEE ; DESERRANNO DIMITRI ; CHMIEL DAVID ; MCBRIDE TROY O ; WILSON TIMOTHY ; SUSTAIOX INC

Assignee(s): ENERGY UNITED STATES DEPARTMENT OF ; COMERICA BANK ; CREARE INC ; OCCHIUTI AND ROHLICEK LLP ; GENERAL COMPRESSION INC ; NRSTOR INC

Inventor(s): (std): RICHTER HORST ; COOK ROBERT ; CHEN WEIBO ; MAGARI PATRICK ; CAMERON BENJAMIN ; IZENSON MICHAEL ; SCOTT MICHEAL N ; FAIRFAX STEPHEN A ; FAIRFAX STEVEN ; FAIRFAX STEVEN A ; MCBRIDE TROY O ; SHAEFER MICHAEL ; MAGARI PATRICK J ; HORST RICHTER ; WEIBO CHEN ; SCOTT MICHEAL NEIL ; MODDERNO JEFFREY ; BOLLINGER BENJAMIN ; SCHAEFER MICHAEL ; KEPSHIRE DAX ; SCOTT MICHAEL NEIL ; SCOTT MICHAEL N ; SHANG ANDREW ; DESERRANNO DIMITRI ; DOYLE LEE ; WILSON TIMOTHY ; CHMIEL DAVID ; BELL ALEXANDER ; ROBERT COOK ; MICHAEL IZENSON ; PATRICK MAGARI ; BENJAMIN CAMERON ; MCBRIDE TROY O ; BOLLINGER BENJAMIN R

Agent(s): HACKETT SEAN JAMES ; SOMERVELL THOMAS RICHARD ; GOODWIN PROCTER LLP,PATENT ADMINISTRATOR ; GOODWIN PROCTER LLP PATENT ADMINISTRATOR ; GOODWIN PROCTER LLP ; BINGHAM MCCUTCHEN LLP ; OCCHIUTI AND ROHLICEK LLP ; FORCIER JOHN V ET AL ; FORCIER JOHN V ; CURRIE MATTHEW T

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

3) Family number: 53701351 (US2013271066A)

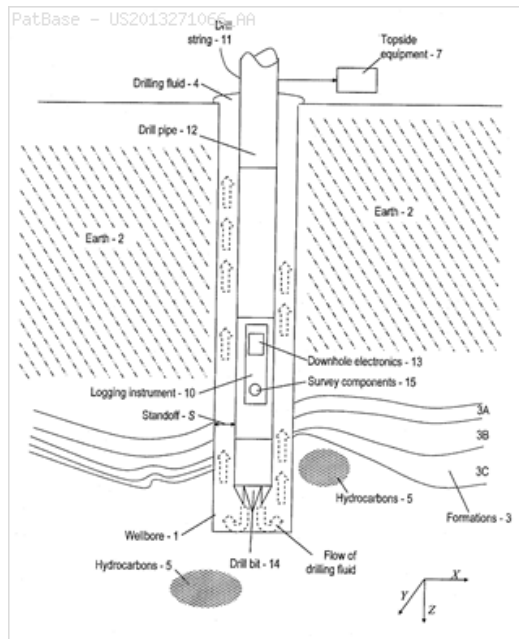
© PatBase

Title: PRODUCTION LOGGING INSTRUMENT

Abstract: A logging system and method for operating a logging system are typically used in a wellbore. The logging system may include a logging instrument including a rechargeable energy storage and logging electronics, and a cable configured to trickle charge the rechargeable energy storage. The rechargeable energy storage may include an ultracapacitor. The rechargeable energy storage may be trickle charged through the cable from a remote power source.

Classifications:

International (IPC 8-9): E21B17/00 E21B41/00 E21B44/00 E21B47/00
E21B47/01 E21B47/017 E21B47/04 E21B47/12 E21B47/13 E21B47/26
E21B49/00 G01V11/00 H01G11/04 H01M6/14
H02J7/00 (Advanced/Invention);
G01V11/00 (Advanced/Non-invention)
CPC: E21B47/011 E21B47/122 G01V11/002 H01G11/04 E21B41/0085
E21B47/00 H02J7/0045 H02J7/007 H02J7/345 E21B17/003 H01M6/14
E21B49/00 H01G11/28 H01G11/32 H01G11/52 H01G11/80 H01M2220/10
H02J7/0042
US: 166/244.1 166/53 166/65.1 320/107



Family:

Publication number	Publication date	Application number	Application date
BR112014010635 A2	20170425	BR20141110635	20121105
CA2854404 AA	20140501	CA20122854404	20121105
CN104024573 A	20140903	CN201280065843	20121105
CN104024573 B	20180515	CN201280065843	20121105
CN108868747 A	20181123	CN201810340464	20121105
EA201490916 A1	20141030	EA20140090916	20121105
EP2776673 A1	20140917	EP20120846480	20121105
EP2776673 A4	20160928	EP20120846480	20121105
US2013271066 AA	20131017	US20120669396	20121105
US2015096744 AA	20150409	US20140572352	20141216
US2018171777 AA	20180621	US20160370821	20161206
US9515499 BB	20161206	US20120669396	20121105
US9683441 BB	20170620	US20140572352	20141216
WO13067540 A1	20130510	WO2012US63621	20121105

Priority:

US20110555100P 20111103	US20120624080P 20120413	CN201280065843 20121105
US20120669396 20121105	WO2012US63621 20121105	US20120669396 20121121
US20130916526P 20131216	US20140572352 20141216	US20160370821 20161206

Probable Assignee: FASTCAP SYSTEMS CORP

Assignee(s): (std): COOLEY JOHN J ; FASTCAP SYSTEMS CORP ; MCGRATH JENNA ; SIGNORELLI RICCARDO ; GREEN MORRIS ; KUTTIPIILLAI PADMANABAN SASTHAN ; TURNER IRA M ; SIGNORELLI RICARDO

Assignee(s): WINDSAIL CREDIT FUND LP AGENT AS ; WINDSAIL CREDIT FUND LP ADMINISTRATIVE AGENT AS ; FASTCAP SYSTEMS CORP21 DRYDOCK AVENUE8TH FLOORBOSTONMA02210US ; DEANE CHRISTOPHER JOHN SIBBALD

Inventor(s): (std): CHRISTOPHER JOHN SIBBALD DEANE ; COOLEY JOHN J ; COOLEY JOHN JACOB ; DEANE CHRISTOPHER JOHN SIBBALD ; GREEN MORRIS ; IRA M TURNER ; JENNA MCGRATH ; JOHN J COOLEY ; KUTTIPIILLAI PADMANABAN SASTHAN ; MORRIS GREEN ; PADMANABAN SASTHAN KUTTIPIILLAI ; RICCARDO SIGNORELLI ; SIGNORELLI RICCARDO ; MCGRATH JENNA ; TURNER IRA M ; SIGNORELLI RICARDO ; IRAM M TURNER

Inventor(s): TURNER IRA MUS ; MCGRATH JENNAUS ; SIGNORELLI RICCARDOUS ; KUTTIPIILLAI PADMANABAN SASTHANUS ; GREEN MORRISUS ; DEANE CHRISTOPHER JOHN SIBBALDUS ; COOLEY JOHN JUS

Agent(s): SMART AND BIGGAR; HGF LTD; WOLF GREENFIELD AND SACK PC; WOLF GREENFIELD AND SACKS LP; MCCLELLAN WILLIAM R

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

4) Family number: 70604536 (CO20170006830A)

© PatBase

Title: DISPOSITIVO DE TRANSMISION DE TELEMETRIA DE MEDIDORES EN NICHOS Y PISO CON ALIMENTACION POR CELDA SOLAR **Telemetry** transmission device in niche AND FLOOR WITH SOLAR CELL power meters (Machine translation)

Abstract: Source: CO20170006830A [ES] La presente invencion pertenece al campo de dispositivos para procesamiento de datos especialmente adaptados para fines administrativos, de gestion, ejecucion, conteo o de supervision de medidores de flujo adaptados a medidores de electricidad, **gas** o abastecimiento de agua conformados por un dispositivo de automatizacion en paralelo de conexion a nicho que recibe las lecturas de cuatro medidores simultaneamente, un dispositivo de nicho con conexion

en paralelo para cuatro medidores simultaneos ubicados en una cajuela o nicho en cada uno de los pisos y su conexion en paralelo a una unidad de techo con alimentacion por celda solar **Machine translation:** The present invention pertains to the field of devices for data processing specially adapted for administrative purposes, management, implementation, count or monitoring of **flow meters** adapted to **electricity** meters, **gas** or **water** supply formed by an automation device in parallel connection to niche that receives readings of four gauges at the same time, a niche with parallel connection for four simultaneous meters located in a trunk or niche in each of the floors and its connection in parallel to a roof with solar cell power unit

Classifications:

International (IPC 8-9): G08C 19/00 G08C 19/12 (Advanced/Invention)

Family:

Publication number	Publication date	Application number	Application date
CO20170006830 A1	20180710	CO20170006830	20170707

Priority:

CO20170006830 20170707

Probable Assignee: MEZA PARDO BENJAMIN
Assignee(s): (std): MEZA PARDO BENJAMIN
Assignee(s): BENJAMIN MEZA PARDO
Inventor(s): (std): MEZA PARDO BENJAMIN
Inventor(s): BENJAMIN MEZA PARDO
Agent(s): JOHAN SEBASTIAN GOMEZ VILLA

5) Family number: 31031593 (US2004074757A)

© PatBase

Title: METHOD AND APPARATUS FOR PHASE CHANGE ENHANCEMENT

Abstract: A method and device for enhancing distillation in an evaporator. The evaporator includes phase change chambers, such as vertically-oriented cylindrical evaporation tubes. Each chamber has an evaporation region that can be heated externally. Each chamber has an inlet for introducing liquid to the chamber and an outlet opening for allowing vapor to exit from the chamber. Packing is inserted into one or more chambers to enhance distillation. The packing may include a rod with bristles emanating from the rod. Other chamber packing may include multiple rods or a mesh.

Classifications:

International (IPC 8-9): A23L2/52 A23L2/60 A23L2/68 A23L33/10 B01D1/00 B01D1/02 B01D1/04 B01D1/06 B01D1/22 B01D1/28 B01D1/30 B01D24/48 B01D29/01 B01D29/31 B01D29/50 B01D29/52 B01D29/60 B01D29/66 B01D29/96 B01D3/00 B01D3/02 B01D3/04 B01D3/08 B01D3/10 B01D3/14 B01D3/28 B01D3/32 B01D3/34 B01D3/38 B01D3/42 B01D33/44 B01D35/12 B01D35/16 B01D35/22 B01D45/00 B01D45/08 B01D45/14 B01D5/00 B01D53/00 B67D1/00 B67D1/08 B67D7/08 C01D3/10 C02F1/00 C02F1/02 C02F1/04 C02F1/08 C02F1/16 C02F1/18 C02F1/20 C02F1/32 C02F1/46 C02F1/48 C02F1/68 C02F9/00 C12M1/12 F01B29/10 F02C9/00 F02G1/043 F02G1/044 F02G1/053 F02G1/055 F02G1/06 F02G5/00 F02G5/04 F04B35/04 F04B49/03 F04B49/04 F04C19/00 F04C29/00 F04D1/12 F04D13/06 F04D23/00 F04D25/02 F04D29/00 F04D29/02 F04D29/057 F04D29/063 F04F5/06 F04F99/00 F16J3/02 F16K1/00 F16K15/00 F16K15/03 F16K17/00 F17D3/01 F22B1/08 F22B37/18 F24H3/02 F25B1/00 F25B19/00 F25B39/00 F25B9/00 F25B9/14 F25D21/14 F28D15/00 F28D21/00 F28D7/00 F28D7/16 F28D9/00 F28F1/00 F28F1/40 F28F13/00 F28F3/00 G01D4/00 G01F9/00 G01N11/02 G01N27/10 G01N33/18 G05B15/02 G05D1/02 G05D7/00 G05D7/06 G06F11/30 G06Q50/06 H02P9/04 H04Q9/00 (Advanced/Invention); B01D1/02 B01D1/06 B01D1/28 B01D29/66 B01D3/00 B01D3/08 B01D3/10 B01D3/42 B01D45/14 B01D5/00 C02F1/08 C02F103/06 (Advanced/Non-invention); B01D1/00 B01D1/22 B01D29/01 B01D3/00 B01D3/34 B01D3/42 B01D35/00 B01D45/00 B01D5/00 B67D7/08 C02F1/04 C02F1/08 C02F1/18 C02F1/32 F01B29/00 F04C19/00 F04C29/00 F04D1/00 F16K15/02 F24H3/02 F25B1/00 F25B9/14 F28D7/00 F28D9/00 F28F1/10 H04Q9/00 (Core/Invention); B01D3/10 (Core/Non-invention)

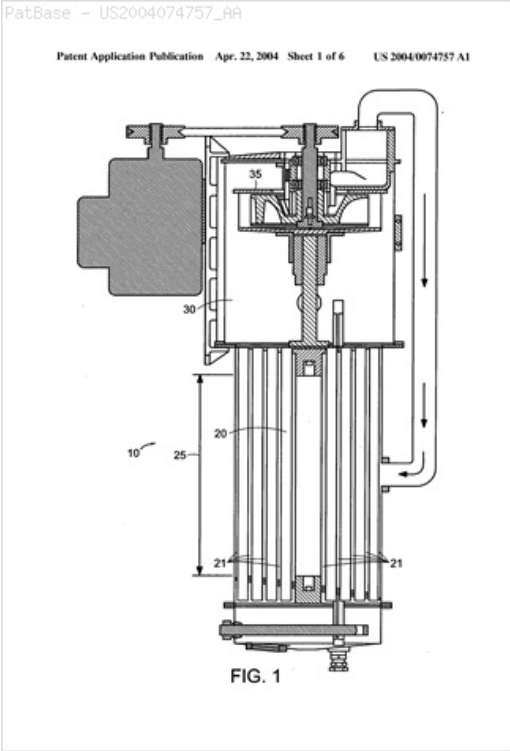
International (IPC 1-7): B01D1/06 B01D1/10 B01D1/28 B01D1/30 B01D29/66 B01D3/00 B01D3/02 B01D3/04 B01D3/10 B01D3/42 B01D35/12 B01D35/16 B01D35/22 B01D5/00 B01J19/32 C10B29/00 F04C19/00 F04F11/00 F16K1/00 F16K15/00 F16K15/03 F28D7/16 F28F1/00 F28F1/40 F28F13/00 F28F3/00 H04Q9/00

CPC: F16K17/12 F04D13/06 G01N11/02 B67D1/0014 B01D5/0006 B01D5/009 B67D1/0888 B67D2210/00015 B67D2210/0002 F22B37/18 F22B1/08 B01D3/007 C02F2301/08 C02F1/325 C02F2201/322

C02F2307/10 B01D29/52 B01D29/96 G01D4/004 G06Q50/06 Y02B90/242 Y04S20/322 Y10S203/08 Y10S203/21 F04D1/12 C02F2103/06 G05D7/0629 G05B15/02 B01D1/0035 B01D5/0003 B01D5/0039 C02F2201/009 C02F2209/008 F02G1/043 F02G1/06 F02G2243/00 C02F2303/10 C02F2303/04 B01D1/22 B01D1/2818 B01D1/305 B01D5/0012 C02F1/042 C02F1/18 B67D1/0862 C02F2209/005 C02F2209/05 C02F2209/40 Y10T137/0318 Y10T137/87917 G01N27/10 G01N33/1893 F17D3/01 B01D1/2896 B01D1/0058 G01F9/00 C02F1/041 B01D1/0082 C02F1/042 B01D1/02 B01D3/00 C02F1/04 C02F1/008 Y02A20/212 Y02A20/109 B01D29/66 F28F13/00 B01D1/06 B01D1/065 B01D1/221 B01D1/2887 B01D1/289 B01D1/2893 B01D3/10 B01D3/42 B01D5/0015 B01D29/01 B01D35/12 F04C19/004 F04C19/005 F04C19/008 F04C29/0085 F04C2270/86 F28D7/0066 F28D7/1669 F28D9/005 F28D9/0093 F28F1/40 B01D5/00 B01D1/28 B01D5/006 B01D45/08 C02F1/048 C02F1/16 F04C19/002 F04D23/008 F04D25/026 F04D29/023 F04D29/057 F04D29/063 F05D2300/43 F05D2300/512 Y02W10/37 Y02E20/14 Y10T137/7764 Y10T137/7848 Y10T137/7903

European: B01D1/00B4B B01D1/00D B01D1/02 B01D1/06 B01D1/06B B01D1/22 B01D1/22B B01D1/28 B01D1/28B8 B01D1/28J B01D1/28L B01D1/28L2 B01D1/30B B01D29/01 B01D3/42 B01D35/12 B01D45/08 B01D5/00B10 B01D5/00B14 B01D5/00B16 B01D5/00H10 B01D5/00K16 B67D1/08J C02F1/04E C02F1/04Z C02F1/08 C02F1/16 C02F1/18 F04C19/00D F04C19/00F F04C19/00H F04C19/00H4 F04C29/00D6 F04D1/12 F22B1/08 F22B37/18 F28D7/00K F28D7/16F6 F28D9/00F4B F28D9/00P F28F1/40 F28F13/00 G01D4/00R1 G06Q50/06 L01D3/10 L67D210/00B4B L67D210/00B4F R04C270/86 Y02B90/24B2 Y04S20/32B

US: 1/1 137/1 137/489 137/489S 137/513.5 137/527.8 137/613 15/398 15/88 159/13.2 159/13.4 159/14 159/24.1 159/24.2



159/26.1 159/27.1 159/28.6 159/42 159/44 159/46 159/47.1 159/47.3 159/49 159/49P 159/DIG.008 159/DIG.015 159/DIG.15
 159/DIG.15S 159/DIG.2 159/DIG.20 159/DIG.32 159/DIG.4 159/DIG.40 159/DIG.6 159/DIG.8 159/DIG.8S 165/104.19
 165/104.190P 165/115 165/121 165/121S 165/140 165/140S 165/144 165/164 165/184 165/184S 202/155 202/158 202/158S
 202/16 202/160 202/172 202/172S 202/176 202/177 202/180 202/181 202/182 202/185.1 202/185.100P 202/185.2 202/185.3
 202/185.300P 202/186 202/187 202/197 202/200 202/202 202/205 202/206 202/206S 202/232 202/234 202/235 202/236
 202/237 202/238 202/242 202/262 202/262S 202/267.1 202/267.100P 202/267.100S 202/269 203/1 203/10 203/100 203/10S
 203/11 203/11P 203/1P 203/1S 203/2 203/21 203/22 203/22S 203/23 203/24 203/24S 203/25 203/26 203/26S 203/27 203/2S
 203/3 203/34 203/34S 203/3P 203/4 203/40 203/40S 203/50 203/57 203/61 203/87 203/87S 203/89 203/89S 203/91
 203/DIG.008 203/DIG.18 203/DIG.2 203/DIG.20 203/DIG.8 203/DIG.8S 210/103 210/108 210/137 210/313 210/333.01
 210/333.1 210/411 210/483 210/710 210/739 210/744 210/748.1 210/766 210/774 210/774S 210/85 210/96.1 222/52 290/1R
 415/169.3 417/200 417/208 417/297.5 417/410.1 417/410.100S 417/423.12 417/54 417/54S 417/572 417/66 417/66S 417/68
 417/68P 417/69 417/69S 417/72 417/72S 55/404 55/405 55/405P 55/434.2 60/39.2 60/517 60/517S 60/525 60/660 60/783
 62/285 62/291 62/291CD 62/498 62/498S 62/6 62/6P 621/291 700/20 700/275 700/282 700/287 700/302 702/188 702/188P
 702/50 702/50S 702/61 702/61P 705/412 705/412S 95/1 95/39

Family:

Publication number	Publication date	Application number	Application date
AU2003255244 AA	20040225	AU20030255244	20030807
AU2003291547 AA	20040603	AU20030291547	20031113
AU2003291547 AH	20040603	AU20030291547	20031113
AU2003294497 AA	20050629	AU20030294497	20031124
AU2012284251 AA	20130124	AU20120284251	20120713
AU2012284251 BB	20180201	AU20120284251	20120713
BR112014001036 A2	20170214	BR20141101036	20120713
CA2506269 AA	20050513	CA20032506269	20031113
CA2506269 C	20120814	CA20032506269	20031113
CA2545526 AA	20060510	CA20032545526	20031124
CA2545526 C	20120501	CA20032545526	20031124
CA2689931 AA	20081218	CA20082689931	20080606
CA2689931 C	20170228	CA20082689931	20080606
CA2841743 AA	20140114	CA20122841743	20120713
CA2959009 AA	20081218	CA20082959009	20080606
CN100531841 C	20090826	CN200380108662	20031113
CN101658740 A	20100303	CN200910151361	20031113
CN101658740 B	20140604	CN200910151361	20031113
CN101765563 A	20100630	CN200880101158	20080606
CN101765563 B	20121024	CN200880101158	20080606
CN103553163 A	20140205	CN201210339322	20080606
CN103553163 B	20160525	CN201210339322	20080606
CN103781523 A	20140507	CN201280043609	20120713
CN103781523 B	20171215	CN201280043609	20120713
CN1738668 A	20060222	CN200380108662	20031113
DE602004045880 D1	20141106	DE200460045880T	20040728
DE602004052239 D1	20180125	DE200460052239T	20040728
DE60349200 D1	20160908	DE20036049200	20031113
EP1562686 A2	20050817	EP20030768953	20031113
EP1649717 A1	20060426	EP20040779401	20040728
EP1649717 B1	20140924	EP20040779401	20040728
EP1690008 A1	20060816	EP20030789982	20031124
EP2158161 A2	20100303	EP20080770399	20080606
EP2476471 A1	20120718	EP20120163481	20031113
EP2476471 B1	20160727	EP20120163481	20031113
EP2731693 A2	20140521	EP20120741177	20120713
EP2819426 A1	20141231	EP20140185994	20040728
EP2819426 B1	20171227	EP20140185994	20040728
EP3331250 A1	20180606	EP20170210508	20040728
IN00346CN2006 A	20070706	IN2006CN00346	20060127
IN00908CN2005 A	20070810	IN2005CN00908	20050512
IN01087CN2014 A	20150410	IN2014CN01087	20140211
IN01637CN2006 A	20070608	IN2006CN01637	20060511
IN07192CN2009 A	20160708	IN2009CN07192	20091207
IN220087 B	20080725	IN2005CN00908	20050512
IN236982 B	20091204	IN2006CN01637	20060511
IN309566 B	20190329	IN2009CN07192	20091207
JP2006507941 T2	20060309	JP20050507175T	20031113
JP2010214372 A2	20100930	JP20100112694	20100514
JP2010528848 T2	20100826	JP20100511386T	20080606
JP2013063435 A2	20130411	JP20120255388	20121121
JP2014526960 T2	20141009	JP20140521674T	20120713
JP2015016472 A2	20150129	JP20140193618	20140924
JP2015062897 A2	20150409	JP20140223127	20141031
JP2016120493 A2	20160707	JP20160014007	20160128
JP2018034155 A2	20180308	JP20170173205	20170908
JP2018079466 A2	20180524	JP20170241449	20171218
JP2018089622 A2	20180614	JP20170241450	20171218
JP5490685 B2	20140514	JP20100511386T	20080606
JP6149021 B2	20170614	JP20140223127	20141031
KR101192899 B1	20121018	KR20057008588	20031113

KR101299747 B1	20130823	KR20127016961	20031113
KR101730962 B1	20170511	KR20107000239	20080606
KR101826452 B1	20180322	KR20167008224	20080606
KR101826492 B1	20180322	KR20177023858	20080606
KR101967001 B1	20190408	KR20137014320	20080606
KR20060015451 A	20060217	KR20057008588	20031113
KR20100041747 A	20100422	KR20107000239	20080606
KR20120091407 A	20120817	KR20127016961	20031113
KR20130082511 A	20130719	KR20137014320	20080606
KR20140070530 A	20140610	KR20147003693	20120713
KR20160040730 A	20160414	KR20167008224	20080606
KR20170101322 A	20170905	KR20177023858	20080606
MX2009013337 A1	20100118	MX20090013337	20080606
MX2011001778 A1	20110510	MX20110001778	20090814
MX2014000627 A1	20150907	MX20140000627	20120713
MX347076 B	20170410	MX20140000627	20120713
MX354085 B	20180209	MX20140010465	20090814
MXPA05005245 A1	20050908	MX2005PA05245	20031113
MXPA06001198 A1	20060411	MX2006PA01198	20040728
MY147654 A	20121231	MY20030004354	20031113
US2004074757 AA	20040422	US20030636303	20030807
US2004099521 AA	20040527	US20030713591	20031113
US2004159536 AA	20040819	US20030714683	20031113
US2005016828 AA	20050127	US20030713617	20031113
US2005112007 AA	20050526	US20030720802	20031124
US2005183832 AA	20050825	US20050073935	20050307
US2005194048 AA	20050908	US20030713644	20031113
US2005238499 AA	20051027	US20050168239	20050628
US2007017192 AA	20070125	US20060480294	20060630
US2007112530 AA	20070517	US20040566307	20040728
US2008105403 AA	20080508	US20070927823	20071030
US2008105530 AA	20080508	US20070927879	20071030
US2008105532 AA	20080508	US20070926922	20071029
US2008105533 AA	20080508	US20070927907	20071030
US2008105610 AA	20080508	US20070927812	20071030
US2008133181 AA	20080605	US20070926680	20071029
US2009025399 AA	20090129	US20080134986	20080606
US2009145737 AA	20090611	US20080135035	20080606
US2009185918 AA	20090723	US20090358373	20090123
US2010101929 AA	20100429	US20090541712	20090814
US2010326812 AA	20101230	US20100871177	20100830
US2011147194 AA	20110623	US20090541625	20090814
US2012006670 AA	20120112	US20110184169	20110715
US2012073950 AA	20120329	US20110311227	20111205
US2013206574 AA	20130815	US20130751897	20130128
US2013233695 AA	20130912	US20120645937	20121005
US2013292241 AA	20131107	US20120674559	20121112
US2013334026 AA	20131219	US20130758594	20130204
US2014021029 AA	20140123	US20130025279	20130912
US2014069800 AA	20140313	US20130080176	20131114
US2014076825 AA	20140320	US20130087397	20131122
US2014183025 AA	20140703	US20130952263	20130726
US2014190816 AA	20140710	US20130964565	20130812
US2014197023 AA	20140717	US20130974579	20130823
US2014197197 AA	20140717	US20130969200	20130816
US2014202542 AA	20140724	US20130952195	20130726
US2014244042 AA	20140828	US20140269742	20140505
US2014326592 AA	20141106	US20120982022	20120713
US2014374235 AA	20141225	US20140480196	20140908
US2015075964 AA	20150319	US20140543436	20141117
US2015224419 AA	20150813	US20130964389	20130812
US2015266749 AA	20150924	US20150714981	20150518
US2016067629 AA	20160310	US20150942275	20151116
US2016153453 AA	20160602	US20150948918	20151123
US2016185617 AA	20160630	US20160062854	20160307
US2016220921 AA	20160804	US20160095679	20160411
US2016220922 AA	20160804	US20160095696	20160411
US2017184529 AA	20170629	US20170457291	20170313
US2017197844 AA	20170713	US20170468870	20170324
US2017203975 AA	20170720	US20170477321	20170403
US2017210637 AA	20170727	US20170483457	20170410
US2018221786 AA	20180809	US20180945153	20180404
US2018304169 AA	20181025	US20180017458	20180625
US2019118112 AA	20190425	US20180222444	20181217
US7340879 BB	20080311	US20030714683	20031113
US7465375 BB	20081216	US20030713591	20031113
US7488158 BB	20090210	US20050168239	20050628

US7597784 BB	20091006	US20030713617	20031113
US7707830 BB	20100504	US20070927907	20071030
US7785448 BB	20100831	US20050073935	20050307
US8006511 BB	20110830	US20080134986	20080606
US8069676 BB	20111206	US20080135035	20080606
US8282790 BB	20121009	US20070926922	20071029
US8307887 BB	20121113	US20070927823	20071030
US8359877 BB	20130129	US20090541625	20090814
US8366883 BB	20130205	US20060480294	20060630
US8505323 BB	20130813	US20110184169	20110715
US8506762 BB	20130813	US20070927812	20071030
US8511105 BB	20130820	US20090541712	20090814
US8517052 BB	20130827	US20070927879	20071030
US8534062 BB	20130917	US20070926680	20071029
US8584472 BB	20131119	US20110311227	20111205
US8718827 BB	20140506	US20040566307	20040728
US8828192 BB	20140909	US20120645937	20121005
US8888963 BB	20141118	US20130751897	20130128
US9005393 BB	20150414	US20100871177	20100830
US9037310 BB	20150519	US20130087397	20131122
US9186598 BB	20151117	US20120674559	20121112
US9194392 BB	20151124	US20090358373	20090123
US9278868 BB	20160308	US20130025279	20130912
US9308467 BB	20160412	US20130964389	20130812
US9309104 BB	20160412	US20130969200	20130816
US9593809 BB	20170314	US20130952195	20130726
US9604858 BB	20170328	US20130952263	20130726
US9610518 BB	20170404	US20120982022	20120713
US9617167 BB	20170411	US20160062854	20160307
US9937435 BB	20180410	US20140543436	20141117
US10005001 BB	20180626	US20130080176	20131114
US10155174 BB	20181218	US20160095696	20160411
US10179298 BB	20190115	US20150942275	20151116
WO04015351 A1	20040219	WO2003US24966	20030807
WO04043566 A2	20040527	WO2003US36540	20031113
WO04043566 A3	20040826	WO2003US36540	20031113
WO05013638 A1	20050210	WO2004US24335	20040728
WO05057015 A1	20050623	WO2003US37531	20031124
WO06096738 A2	20060914	WO2006US08144	20060307
WO06096738 A3	20070628	WO2006US08144	20060307
WO08154435 A2	20081218	WO2008US66198	20080606
WO08154435 A3	20090219	WO2008US66198	20080606
WO08154435 A9	20100114	WO2008US66198	20080606
WO10019891 A2	20100218	WO2009US53898	20090814
WO10019891 A3	20100624	WO2009US53898	20090814
WO13012744 A2	20130124	WO2012US46740	20120713
WO13012744 A3	20130314	WO2012US46740	20120713
WO14018896 A1	20140130	WO2013US52335	20130726

Priority:

US20020401813P	20020807	US20020425820	20021113	US20020425820P	20021113
US20030490615	20030728	US20030490615P	20030728	US20030636303	20030807
WO2003US24966	20030807	US20030518782P	20031110	JP20050507175	20031113
EP20030768953	20031113	EP20120163481	20031113	JP20100112694	20031113
JP20140193618	20031113	JP20160014007	20031113	JP20050507175T	20031113
US20030713591	20031113	US20030714683	20031113	US20030713617	20031113
US20030713644	20031113	WO2003US36540	20031113	US20030720802	20031124
WO2003US37531	20031124	EP20040779401	20040728	EP20140185994	20040728
US20040566307	20040728	WO2004US24335	20040728	US20050073935	20050307
US20050168239	20050628	US20060566307	20060127	US20060480294	20060630
US20070933525P	20070607	US20070926922	20071029	US20070926680	20071029
US20070927823	20071030	US20070927879	20071030	US20070927812	20071030
US20070927907	20071030	CA20082689931	20080606	CN200880101158	20080606
US20080134986	20080606	US20080135035	20080606	WO2008US66198	20080606
US20080089295P	20080815	US20090358373	20090123	US20090541625	20090814
US20090541712	20090814	WO2009US53898	20090814	US20100871177	20100830
US20110184169	20110715	US20110311227	20111205	JP20140521674T	20120713
WO2012US46740	20120713	US20120982022	20120713	US20120676597P	20120727
US20120645937	20121005	US20120674559	20121112	US20130751897	20130128
US20130758594	20130204	US20130819919P	20130506	US20130952263	20130726
US20130982022	20130726	US20130952195	20130726	US20130964565	20130812
US20130964389	20130812	US20130969200	20130816	US20130974579	20130823
US20130025279	20130912	US20130080176	20131114	US20130087397	20131122
US20140982022	20140109	US20140269742	20140505	US20140480196	20140908
EP20140185994	20140923	US20140543436	20141117	US20150714981	20150518
US20150942275	20151116	US20150948918	20151123	JP20160014007	20160128
US20160062854	20160307	US20160095679	20160411	US20160095696	20160411
CA20172689931	20170302	US20170457291	20170313	US20170468870	20170324
US20170477321	20170403	US20170483457	20170410	JP20170241449	20171218
US20180945153	20180404	US20180017458	20180625	US20180222444	20181217

Probable Assignee: DEKA PRODUCTS PARTNERSHIP LTD

Assignee(s): (std): BEAVIS RUSSELL H ; BEDNAREK DAVID F ; BHAT PRASHANT ; CHARLES ROBERT ANDREW ; CLAPP OTIS L ; DEKA PRODUCTS LP ; DEKA PRODUCTS PARTNERSHIP LTD ; DEKA PRODUCTS LIMITED PARTNERSHIP ; OWENS KINGSTON ; KAMEN DEAN ; DEMERS JASON A ; LAROCQUE RYAN ; LANGENFELD CHRISTOPHER C ; SCHNELLINGER ANDREW A ; SMITH STANLEY B III ; DEKA PRODUSTS LTD PARTNERSHIP ; LAROCQUE RYAN K ; SMITH STANLEY B ; ENT STEPHEN M ; SMITH III STANLEY B ; MCGILL DAVID W ; LEONARD SCOTT A ; DUGGAN TIMOTHY P ; JACKSON JAMES L ; HEINZMANN GUSTAV ; HOELL JR JOSEPH A ; SWERDLOW JEREMY M ; COLL ANDREW ; DEAK PRODUCTS LTD PARTNERSHIP

Assignee(s): DEKA PRODUCTS LTD PARTNERSHIP MANCHESTER ; DEKA PRODUCTS PARTNERSHIP MANCHESTER LTD ; DEAK PRODUCTS PARTNERSHIP LTD ; JACKSON JAMES ; DEKA PRODUSTS PARTNERSHIP LTD ; DEKA PRODUSTS LIMITED PARTNERSHIP ; DEKA PRODUCTS LTD ; DEKA PRODUCTS PATNERSHIP LTD

Inventor(s): (std): BEDNAREK DAVE ; DAVID F BEDNAREK ; DAVID W MCGILL ; DEMERS JASON ; DEMERS JASON A ; DUGGAN TIMOTHY ; HEINZMANN GUSTAV ; HOELL JR JOSEPH A ; JACKSON JAMES L ; JAKSON JAMES ; JAMES JACKSON ; JASON A DEMERS ; KINGSTON OWENS ; LEONARD SCOTT ; LEONARD SCOTT A ; MCGILL DAVID ; OWENS KINGSTON ; TIMOTHY P DUGGAN ; SCOTT A LEONARD ; HOELL JOSEPH A JR ; BEAVIS RUSSELL H ; SWERDLOW JEREMY M ; STEPHEN M ENT ; STANLEY B SMITH III ; SMITH STANLEY B III ; SMITH STANLEY B ; SMITH III STANLEY B ; SCHNELLINGER ANDREW A ; SCHNELLINGER ANDREW ; RYAN LAROCQUE ; RYAN K LAROCQUE ; ROBERT E SMITH III ; PRASHANT BHAT ; OWENS BEDNAREK DAVID F DEMERS ; OTIS L CLAPP ; MCGILL DAVID W ; LUND JEREMY B ; LAROCQUE RYAN K ; LAROCQUE RYAN ; LANGENFELD CHRSTITOPHER C ; LANGENFELD CHRISTOPHER C ; LANGENFELD CHRIS C ; LAGENFELD CHRISTOPHER C ; KAMEN JR DEAN ; KAMEN DEAN ; JACKSON JAMES ; DUGGAN TIMOTHY P ; COLL ANDREW S ; CLAPP OTIS L ; CHRISTOPHER C LANGENFELD ; BHAY MITHUN R ; BHAT PRASHANT ; COLL ANDREW ; CHARLES ROBERT ANDREW ; CHARLES ROBERT A ; BEDNAREK DAVID F ; ANDREW A SCHNELLINGER ; LAROCQUE RYAN KEITH ; DEAN KAMEN ; HEINZMAN GUSTAV ; ENT STEPHEN M

Inventor(s): DUGGAN TIMOTHY P EPSOM ; CHARLES ROBERT ; BEDNAREK DAVID F NORTH HAMPTON ; BEDNAREK DAVID ; BEDNAREK DAVID F DEMERS JASON A DUGGAN TIMOTHY P J ; HOELL JOSEPH A ; HOELL JOSEPH ; SCOTT LEONARD ; TIMOTHY DUGGAN ; MCCGILL DAVID W ; JACKSON JAMES BROOKLINE ; HOELL JOSEPH AJR ; OWENS KINGSTON BEDFORD ; MCGILL DAVID W FORT MYERS ; OWENS KINGSTEN ; LEONARD SCOTT A BEDFORD ; JASON DEMERS ; KAMEN DEAN BEDFORD ; KAMEN DEAN L ; DEMERS JASON A MANCHESTER ; DAVID MCGILL ; DAVE BEDNAREK

Agent(s): GRIFFITH HACK ; GOWLING LAFLEUR HENDERSON LLP ; GOWLING WLG CANADA LLP ; FINNIE PETER JOHN ; CROFTS GRAHAM JOHN ; GILL JENNINGS AND EVERY LLP ; CUNDY JACK WILLIAM ; YAMASAKI YUKUZO ; AKAMATSU TOSHIKI ; BROMBERG AND SUNSTEIN LLP ; MICHELLE SAQUET TEMPLE ; TEMPLE MICHELLE SAQUET ; MICHELLE SAQUET ; TEMPLE MICHAEL SAQUET

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TH TJ TM TN TR TT TZ UA UG US VZ VC VN YU ZA ZM ZW

6) Family number: 68719742 (US2018058191A)

© PatBase

Title: PLUNGER LIFT MONITORING VIA A DOWNHOLE WIRELESS NETWORK FIELD

Abstract: A real-time system for monitoring plunger properties in a **gas** producing well is provided. The system includes a plunger comprising a substantially cylindrical body; at least one sensor disposed along a tubular body; at least one sensor communications node placed along the tubular body and affixed to a wall of the tubular body, the sensor communications node being in electrical communication with the at least one sensor and configured to receive signals therefrom; a topside communications node placed proximate a surface; a plurality of intermediate communications nodes spaced along the tubular body and attached to a wall of the tubular body; wherein the intermediate communications nodes are configured to transmit signals received from the at least one sensor communications node to the topside communications node in substantially a node-to-node arrangement; a receiver at the surface configured to receive signals from the topside communications node; and a plunger control system structured and arranged to communicate with the topside communications node. A method of monitoring plunger properties and controlling plunger performance, and a hydrocarbon well are also provided.

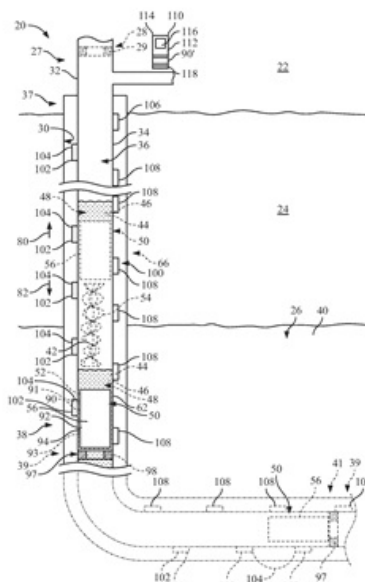
Classifications:

International (IPC 8-9): E21B19/22 E21B33/12 E21B34/06 E21B41/00 E21B43/12 E21B43/14 E21B47/00 E21B47/01 E21B47/06 E21B47/09 E21B47/10 E21B47/12 E21B47/14 E21B47/16 E21B47/18 E21B49/08 G01F5/00 G01P5/165 G01V1/44 H04B11/00 H04W52/02 H04W72/04 H04W8/14 (Advanced/Invention)

CPC: E21B47/14 H04W52/0216 H04W72/0446 H04W72/0453 E21B47/16 H04B11/00 E21B47/011 E21B47/0005 E21B47/0007 E21B43/122 E21B47/122 E21B49/08 E21B47/06 E21B47/123 G01V1/44 E21B47/09 E21B47/12 E21B33/12 E21B47/18 E21B2049/085 E21B47/065 E21B47/10 E21B34/06 G01P5/165 G01F5/005 E21B43/14 E21B47/0006 E21B41/0085 E21B37/06 E21B41/02 E21B47/091 E21B47/101 E21B49/00 H04W52/0219 H04W52/0229 E21B43/121 G01V1/22 G01V1/52 G01P5/16 E21B49/087 Y02D70/00 Y02D70/142 Y02D70/144 Y02D70/48 G01F1/56 G01F1/66 G01F1/74

US: 367/82

PatBase - US2018058191_AA



Family:

Publication number	Publication date	Application number	Application date
AR109440 AA	20181128	AR2017P102387	20170829
AR109441 AA	20181128	AR2017P102388	20170829
AR109442 AA	20181128	AR2017P102389	20170829
AR109459 AA	20181212	AR2017P102390	20170829
AR109460 AA	20181212	AR2017P102391	20170829
AR109470 AA	20181212	AR2017P102405	20170830
AU2017320734 AA	20180308	AU20170320734	20170801
AU2017320734 AA	20190411	AU20170320734	20170801
AU2017320736 AA	20190307	AU20170320736	20170801
AU2017321138 AA	20190228	AU20170321138	20170801
AU2017321139 AA	20190228	AU20170321139	20170801
AU2017321139 AA	20180308	AU20170321139	20170801
AU2017321139 AA	20180308	AU20170321139	20170801
AU2017321141 AA	20190207	AU20170321141	20170801
AU2017321142 AA	20190228	AU20170321142	20170801
CA3032665 AA	20190131	CA20173032665	20170801
CA3032860 AA	20190201	CA20173032860	20170801
CA3033363 AA	20190207	CA20173033363	20170801
CA3033986 AA	20190214	CA20173033986	20170801
CA3035206 AA	20190226	CA20173035206	20170801
CA3035370 AA	20190227	CA20173035370	20170801
CN109642457 A	20190416	CN201780053114	20170801
CN109642458 A	20190416	CN201780053129	20170801
CN109642459 A	20190416	CN201780052667	20170801
CN109642460 A	20190416	CN201780052799	20170801
CN109661503 A	20190419	CN201780052745	20170801
GC10265 A	20190421	GC2017P033882	20170824
US2018058191 AA	20180301	US20170665952	20170801
US2018058198 AA	20180301	US20170665936	20170801
US2018058202 AA	20180301	US20170666312	20170801
US2018058203 AA	20180301	US20170666324	20170801
US2018058204 AA	20180301	US20170666348	20170801
US2018058205 AA	20180301	US20170666356	20170801
US2018058206 AA	20180301	US20170665931	20170801
US2018058207 AA	20180301	US20170666292	20170801
US2018058208 AA	20180301	US20170666299	20170801
US2018058209 AA	20180301	US20170666328	20170801
US2018066510 AA	20180308	US20170689182	20170829
US10167716 BB	20190101	US20170666324	20170801
US10190410 BB	20190129	US20170666356	20170801
WO18044464 A1	20180308	WO2017US44858	20170801
WO18044469 A1	20180308	WO2017US44931	20170801
WO18044470 A1	20180308	WO2017US44935	20170801
WO18044471 A1	20180308	WO2017US44938	20170801
WO18044473 A1	20180308	WO2017US44943	20170801
WO18044474 A1	20180308	WO2017US44945	20170801

Priority:

US20160381330P 20160830	US20160381335P 20160830	US20160381926P 20160831
US20160428367P 20161130	US20160428380P 20161130	US20160428374P 20161130
US20160428385P 20161130	US20160428425P 20161130	US20160428394P 20161130
US20160433503P 20161213	US20160433510P 20161213	US20160433491P 20161213
US20170665931 20170801	US20170665936 20170801	US20170666324 20170801
US20170666348 20170801	US20170666312 20170801	US20170666356 20170801
US20170666292 20170801	US20170665952 20170801	US20170666328 20170801
US20170666299 20170801	WO2017US44943 20170801	WO2017US44935 20170801
WO2017US44945 20170801	WO2017US44938 20170801	WO2017US44931 20170801
WO2017US44858 20170801	US20170689182 20170829	

Probable Assignee: EXXON MOBIL CORP

Assignee(s): (std): BRAGG TIMOTHY R ; BURNS JAMES S ; CLAWSON SCOTT WILLIAM ; DISKO MARK M ; ERTAS MEHMET DENIZ ; EXXON MOBIL CORP ; ROMER MICHAEL C ; MORROW TIMOTHY I ; PASTUSEK PAUL E ; SMITH THOMAS M ; EXXONMOBILE UPSTREAM RES CO ; ZHANG YIBING ; WOLF HENRY ALAN ; SONG LIMIN ; WALKER KATIE M ; TOLMAN RANDY C ; EXXONMOBIL UPSTREAM RES CO

Assignee(s): EXXONMOBILE UPSTREAM RESEARCH CO ; EXXONMOBIL UPSTREAM RESEARCH CO

Inventor(s): (std): BRAGG TIMOTHY R ; BURNS JAMES S ; CLAWSON SCOTT WILLIAM ; DISKO MARK M ; ERTAS MEHMET DENIZ ; CLAWSON SCOTT ; SONG LIMIN ; ROMER MICHAEL C ; MORROW TIMOTHY I ; PASTUSEK PAUL E ; SMITH THOMAS M ; ZHANG YIBING ; WOLF HENRY ALAN ; WALKER KATIE M ; TOLMAN RANDY C ; WOLF HENRY

Inventor(s): YIBING ZHANG ; SCOTT WILLIAM CLAWSON ; LIMIN SONG ; HENRY ALAN WOLF

Agent(s): WATERMARK INTELLECTUAL PROPERTY PTY LTD; BORDEN LADNER GERVAIS LLP; SAUD M A SHAWWAF LAW OFFICE; EXXONMOBIL UPSTREAM RESEARCH CO LAW DEPARTMENT; JAMES RICK F ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JO JP KE KG KH KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: APPARATUS AND METHOD FOR A RETRIEVABLE SEMI-PERMANENT MONITORING SYSTEM

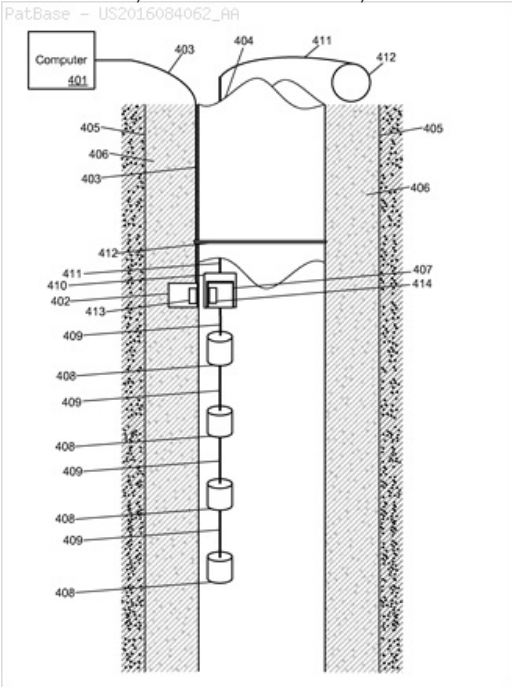
Abstract: An apparatus for retrievable semi-permanent monitoring system includes a casing for a well; a transmission system installed on the outside of the casing or in a wall of the casing; and a sensor array. The sensor array is adapted to couple with the transmission system, and where a wall of the casing is disposed between the sensor array and the transmission system.

Classifications:

International (IPC 8-9): E21B17/00 E21B33/14 E21B43/10 E21B47/00 E21B47/06 E21B47/12 E21B47/14 (Advanced/Invention)

CPC: E21B47/12 E21B47/01 E21B47/10

US: 166/250.01 166/66



Family:

Publication number	Publication date	Application number	Application date
US2016084062 AA	20160324	US20140490305	20140918

Priority:

US20140490305 20140918

Probable Assignee:

SERCEL

Assignee(s): (std):

SERCEL RECH CONST ELECT

Assignee(s):

SERCEL

Inventor(s): (std):

NEGRE JEAN ERIC