

Search query (2): [SP]: An apparatus for controlling a dynamic time pressure profile associated with a perforation event, the apparatus comprising: a downhole tool comprising: a controller; a pressure sensor in communication with the controller to provide feedback to the controller; and a first pressure generator in communication with the controller; wherein the first pressure generator, the pressure sensor, and the controller provide a feedback control loop.

Results: 11

Search history

- Search [SP]: A method of perforating a casing string that extends within a wellbore, the method comprising: measuring downhole pressure within the casing string; firing a perforation gun that is positioned within the casing string to increase the downhole pressure within the casing string; and adjusting the downhole pressure based on the measured downhole pressure; wherein adjusting the downhole pressure comprises actuating a first pressure generator. (Results 353)
- Search [SP]: An apparatus for controlling a dynamic time pressure profile associated with a perforation event, the apparatus comprising: a downhole tool comprising: a controller; a pressure sensor in communication with the controller to provide feedback to the controller; and a first pressure generator in communication with the controller; wherein the first pressure generator, the pressure sensor, and the controller provide a feedback control loop. (Results 11)

1) Family number: 33543003 (US2004231840A)

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Title: CONTROLLING TRANSIENT PRESSURE CONDITIONS IN A WELLBORE

Priority: US20000186500P 20000302 US20000187900P 20000308 US20000252754P 20001122
US20010797209 20010301 US20020316614 20021211 US20030667011 20030919
US20040710564 20040721

Family:

Publication number	Publication date	Application number	Application date
US2004231840 AA	20041125	US20040710564	20040721
US7284612 BB	20071023	US20040710564	20040721

Probable Assignee: SCHLUMBERGER TECHNOLOGY CORP

Assignee(s):(std): SCHLUMBERGER TECHNOLOGY CORP

Inventor(s):(std): RATANASIRIGULCHAI WANCHAI ; BEHRMANN LAWRENCE A ; MARTIN ANDREW J ; GOODMAN KENNETH R

Agent(s): DAN C ; BRYAN P ; KEVIN B

International class (IPC 8-9): E21B21/00 E21B37/08 E21B43/04 E21B43/11 E21B43/117 E21B43/119 E21B43/26
E21B49/08 (Advanced/Invention);
E21B34/00 (Advanced/Non-invention);
E21B (Subclass/Invention)

International class (IPC 1-7): E21B43/24

CPC: E21B21/00 E21B37/00 E21B37/08 E21B43/04 E21B43/11 E21B43/117 E21B43/119 E21B43/1195 E21B43/26
E21B49/08 E21B49/087 E21B2021/006 E21B2034/002 F42B3/02 F42D5/045

European class: E21B21/00 E21B37/00 E21B37/08 E21B43/04 E21B43/11 E21B43/117 E21B43/119 E21B43/119D E21B43/26
E21B49/08 E21B49/08T F42B3/02 F42D5/045 P21B21/00U P21B34/00B

US class: 166/259 166/297 166/311 166/63 166/63S 175/4.54 175/45.4

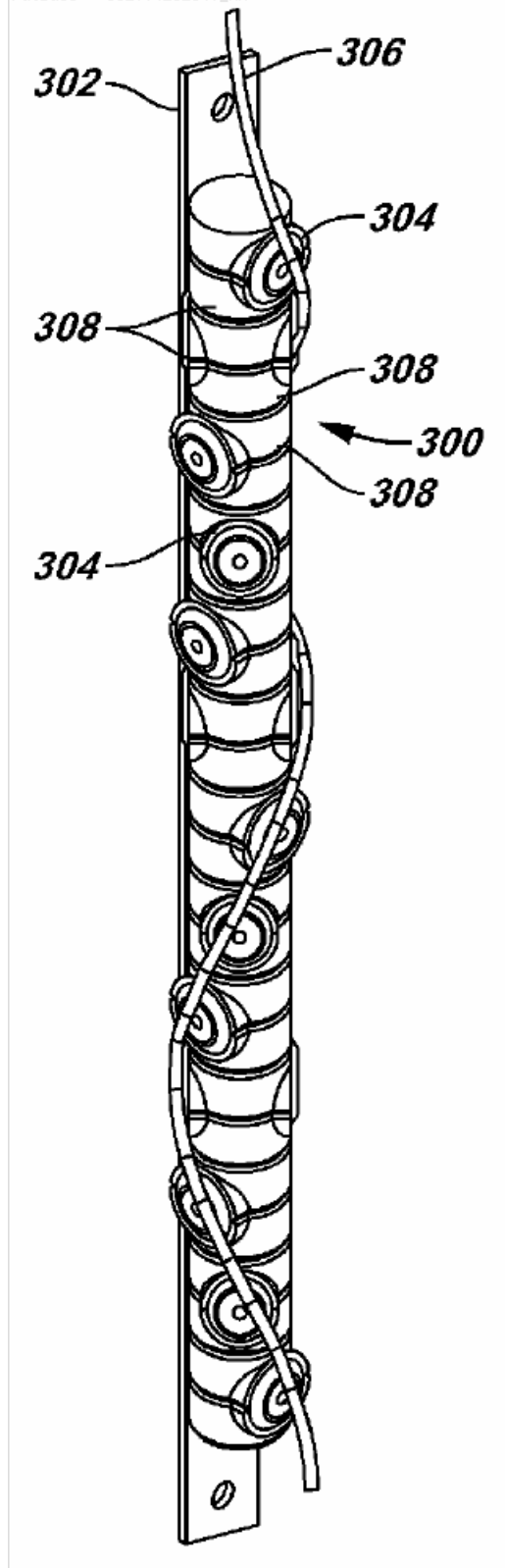
[Classification Explorer](#)

Cited documents: WO9942696 A1, WO0125595 A1, WO0001924 A1, US6527050 BA, US6336506 BB, US6220355 BA, US6206100 BA, US6173783 BA, US6173783 B1, US6158511 A, US6098707 A, US6082450 A, US6062310 A, US5635636 A, US5355802 A, US5318126 A, US5295545 A, US5228508 A, US5135051 A, US5131472 A, US5103912 A, US5088557 A, US4805726 A, US4804044 A, US4650010 A, US4621692 A, US4619325 A, US4576233 A, US4515217 A, US4484632 A, US4391337 A, US4372384 A, US4253523 A, US4175042 A, US3760878 A, US3528511 A, US2005045334 AA, SU1771508 D, RU2211313 C1, RU2162514 C1, RU2131512 C1, RU1771508, GB617817 A, GB2406114 A1, GB2396175 A1, GB2379687 A1, EP0615053 A2,

Forward Citations: WO17131659, WO15152907, WO14168699, WO14168699, WO10141401, US9915137, US9835428, US9759048, US9650851, US9631468, US9617194, US9593924, US9488456, US9476685, US9394767, US9371719, US9243474, US9238953, US9140109, US9080430, US9027641, US8950487, US8807003, US8794326, US8794153, US8741191, US8739673, US8734960, US8726996, US8555764, US8522863, US8505632, US8449798, US8381652, US8336437, US8302688, US8276674, US8136608, US8127832, US8056632, US8006762, US7905285, US7861784, US7810569, US7712532, US7571768, US7533722, US7243725, US2013220613, US2013008655, US2013000979, US2012181031, US2012181026, US2012018156, US2011219978, US2011209871, US2011174487, US2011132608, US2011011587, US2011000669, US2010258292, US2010147587, US2010147519, US2010071895, US2009272527, US2009159285, US2009151952, US2009151589, US2009078420, US2008271894, US2008264289, US2008105430, US2007240873, US2005247449, US10329890, US10294767, US10273792, US10246982, US10184331, RU2567877, NO343111, NO20161576, EP2802840, EP2802736, EP2802735, EP2282003, CN102200005, CN102200005, AU2012200070,

Abstract:

A method and apparatus for use in a wellbore includes running a tool string to an interval of the wellbore, and activating a first component in the tool string to create a transient underbalance pressure condition in the wellbore interval. Additionally, a second component in the tool string is activated to create a transient overbalance pressure condition in the wellbore interval, or vice versa.



2) Family number: 66525040 (US2018148995A)

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Title: AUTONOMOUS PRESSURE CONTROL ASSEMBLY WITH STATE-CHANGING VALVE SYSTEM
Priority: US20160015089 20160127 WO2016US15089 20160127 US20160514124 20161201
 WO2016US64330 20161201

Family:	Publication number	Publication date	Application number	Application date
	AU2016389004 AA	20180607	AU20160389004	20160127
	AU2016389046 AA	20180809	AU20160389046	20161201

BR112018011837 A2	20181127	BR20181111837	20160127
BR112018015423 A2	20181218	BR20181115423	20161201
CA3012627 AA	20180725	CA20163012627	20161201
CO20180005812 A2	20180920	CO20180005812	20160127
DE112016006317 T5	20181018	DE201611006317T	20161201
FR3059701 A1	20180608	FR20170060142	20171027
GB201812164 A0	20180912	GB20180012164	20161201
GB2561786 A1	20181024	GB20180012164	20161201
MX2018009215 A1	20180828	MX20180009215	20161201
US2018148995 AA	20180531	US20160514124	20161201
WO17131659 A1	20170803	WO2016US15089	20160127
WO17131856 A1	20170803	WO2016US64330	20161201

Probable Assignee: HALLIBURTON CO

Assignee(s):(std): HALLIBURTON CO ; HALLIBURTON ENERGY SERVICES INC

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Inventor(s):(std): ROBEY RICHARD ELLIS ; CHEN KUO CHIANG ; BARKER JAMES MARSHALL ; BURKY THOMAS EARL ; HAGGERTY DENNIS J ; JAMES MARSHALL BARKER ; THOMAS EARL BURKY ; DENNIS J HAGGERTY ; RICHARD ELLIS ROBEY ; KUO CHIANG CHEN

Agent(s): PHILLIPS ORMONDE FITZPATRICK; PARLEE MCLAWS LLP; GEVERS AND ORES; SUAREZ VERA L; SUAREZ VERA L 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 JP KE KG KM KN KP KR KW 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

International class (IPC 8-9): E21B29/00 E21B29/12 E21B34/06 E21B43/11 E21B43/114 E21B43/117 E21B43/119 E21B43/12 E21B47/06 F16K31/00 (Advanced/Invention)

International class (IPC 1-7): E21B29/00 E21B29/12 E21B34/06 E21B43/11 E21B43/114 E21B43/12 E21B47/06

CPC: E21B2034/007 F15B15/19 F16K31/00 E21B43/117 E21B43/119 E21B34/06 E21B47/06 E21B43/12

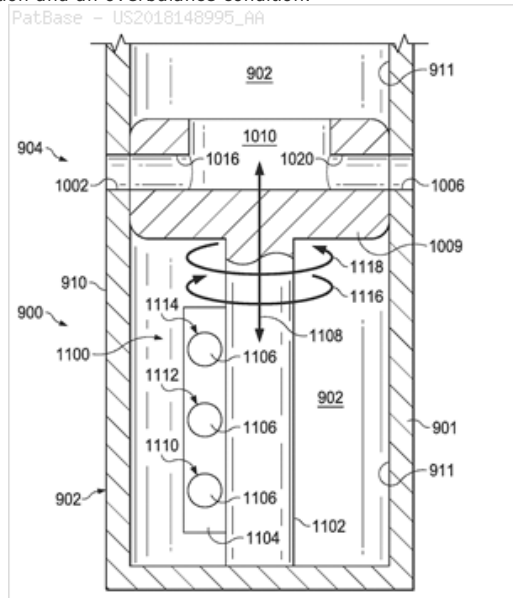
US class: 166/373

[Classification Explorer](#)

Cited documents: US2015285063 AA, US2014216763 AA, US2013327536 AA, US2013008655 AA, US2012125627 AA, US2012037380 AA, US2011132608 AA, US2009084552 AA, US2005247449 AA, US2004231840 AA,

Abstract:

A method and apparatus are provided for controlling wellbore pressure within a wellbore during a perforation event by changing a state of a valve system multiple times. Information generated about the wellbore pressure within the wellbore may be received. A state of the valve system, which is positioned relative to a chamber within the wellbore, may be changed multiple times based on the information received to create a plurality of pressure conditions that substantially match a reference pressure profile. Each of the plurality of pressure conditions is selected from one of an underbalance condition and an overbalance condition.



3) Family number: 47808068 (US2011132608A)

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Title: DEVICE FOR THE FOCUS AND CONTROL OF DYNAMIC UNDERBALANCE OR DYNAMIC OVERBALANCE IN A WELLBORE

Priority: US20090183102P 20090602 US20100790299 20100528

Family:

Publication number	Publication date	Application number	Application date
US2011132608 AA	20110609	US20100790299	20100528
US8726996 BB	20140520	US20100790299	20100528

Probable Assignee: SCHLUMBERGER TECHNOLOGY CORP

Assignee(s):(std): AL BUSAIDY ADIL M ; AL SAYED KARIM ; BAUMANN CARLOS E ; BEHRMANN LAWRENCE A ; BUSAIDY ADIL MAHALLAB AL ; SCHLUMBERGER CA LTD ; DOORNBOSCH FOKKO ; MARTIN ANDREW J ; PRAD RES AND DEV LTD ; SCHLUMBERGER SERVICES PETROL ; SCHLUMBERGER HOLDINGS ; DOORNBOSCH FOKKO H C ; WILLIAMS HARVEY ; SCHLUMBERGER TECHNOLOGY BV ; SCHLUMBERGER TECHNOLOGY CORP

Assignee(s): SERVICES PETROLIERS SCHLUMBERGER ; PRAD RESEARCH AND DEVELOPMENT LTD ; SCHLUMBERGER CANADA LTD ; SCHLUMBERGER HOLDINGS LTD

Inventor(s):(std): BEHRMANN LAWRENCE A ; BAUMANN CARLOS E ; AL SAYED KARIM ; DOORNBOSCH FOKKO ; AL BUSAIDY ADIL M ; WILLIAMS HARVEY ; MARTIN ANDREW J ; BUSAIDY ADIL MAHALLAB AL ; DOORNBOSCH FOKKO H C

Agent(s): JEFFERY R ; BRANDON S ; MCGOFF KEVIN B ET AL

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 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

International class (IPC 8-9): E21B29/00 E21B29/02 E21B33/12 E21B43/00 E21B43/11 E21B43/116 (Advanced/Invention)

CPC: E21B43/1195 E21B33/124 E21B33/1285

European class: E21B33/124 E21B33/128C E21B43/119D

US class: 166/191 166/297 166/55.2 166/55.200S 166/63 175/4.52 175/4.54

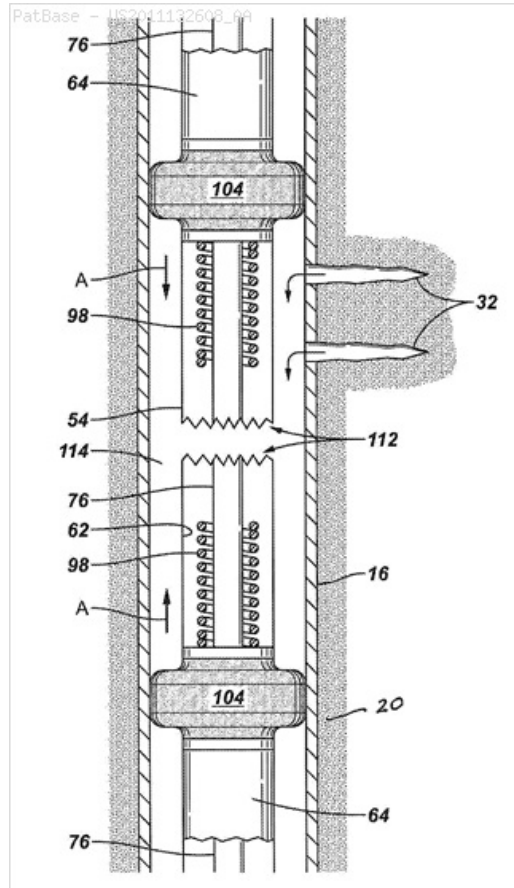
[Classification Explorer](#)

Cited documents: US7571768 BB, US7533722 BB, US7284612 BB, US6966377 BB, US6874579 BB, US5704426 A, US5390737 A, US4082298 A, US2884861 A, US2009223714 AA, US2008271894 AA, US2006249045 AA, US2006185839 AA,

Forward Citations: WO17146849, WO17131659, US9759039, US8950487, US2009078420, US10253597, US10208570, US10156126, CN109072684,

Abstract:

A downhole tool assembly for use in a wellbore includes a tubular body carrying an explosive which is selectively detonated to create a dynamic underbalance or overbalance effect in the wellbore. The tubular body has opposite ends provided with plug assemblies including plug elements movable between a normally collapsed state and an actuatable expanded state. The plug elements are adapted to be actuated to the expanded state between the tubular body and an outer extent of the wellbore before the creation of the dynamic underbalance or overbalance effect to isolate a discrete segment of the wellbore to which the dynamic underbalance or overbalance effect is confined.



Priority: GB20070020421 20071019 AU20080313433 20081017 CA20082699578 20081017
BR2008P117292 20081017 EP20080806765 20081017 EP20120171828 20081017
EP20130180475 20081017 WO2008GB50951 20081017 US20100677660 20100426
EP20120171828 20120613 EP20130180475 20130814 US20130048796 20131008
AU20140221275 20140905 CA20142699578 20141030 US20150743440 20150618
AU20160206273 20160719

Family:	Publication number	Publication date	Application number	Application date
	AU2008313433 AA	20090423	AU20080313433	20081017
	AU2008313433 BB	20141211	AU20080313433	20081017
	AU2014221275 AA	20140925	AU20140221275	20140905
	AU2014221275 BB	20160428	AU20140221275	20140905
	AU2016206273 AA	20160804	AU20160206273	20160719
	AU2016206273 BB	20170608	AU20160206273	20160719
	BR122017019449 B1	20190219	BR20171219449	20081017
	BRPI0817292 A2	20150317	BR2008P117292	20081017
	CA2699578 AA	20100312	CA20082699578	20081017
	CA2699578 C	20150623	CA20082699578	20081017
	CA2867995 AA	20090423	CA20082867995	20081017
	CA2867995 C	20170704	CA20082867995	20081017
	DE602008018770 D1	20121108	DE200860018770T	20081017
	DE602008033523 D1	20140911	DE200860033523T	20081017
	DE602008053647 D1	20180215	DE200860053647T	20081017
	EP2209967 A2	20100728	EP20080806765	20081017
	EP2209967 B1	20120912	EP20080806765	20081017
	EP2508708 A1	20121010	EP20120171828	20081017
	EP2508708 B1	20140723	EP20120171828	20081017
	EP2669468 A1	20131204	EP20130180475	20081017
	EP2669468 B1	20180103	EP20130180475	20081017
	EP3333359 A1	20180613	EP20170203157	20081017
	GB200720421 A0	20071128	GB20070020421	20071019
	GC2512 A	20130828	GC2008P011977	20081019
	US2010200244 AA	20100812	US20080677660	20081017
	US2014034291 AA	20140206	US20130048796	20131008
	US2015285063 AA	20151008	US20150743440	20150618
	US8833469 BB	20140916	US20080677660	20081017
	US9085954 BB	20150721	US20130048796	20131008
	US9359890 BB	20160607	US20150743440	20150618
	WO09050517 A2	20090423	WO2008GB50951	20081017
	WO09050517 A3	20100114	WO2008GB50951	20081017

Probable Assignee: WEATHERFORD TECHNOLOGY HOLDINGS LLC
Assignee(s):(std): PURKIS DANIEL ; WEATHERFORD TECH HOLDINGS LLC ; WEATHERFORD TECHNOLOGY HOLDINGS LLC ; PETROWELL LTD
Assignee(s): PETROWELL LTDWEATHERFORD CENTRESOUTERHEAD ROADALTENS INDUSTRIAL ESTATEAB12 3LFDYCE ABERDEENSHIREABERDEENGB ; PETROWELL LIMITED ; WEATHERFORD TECHNOLOGY HOLDINGS LLC HOUSTON
Inventor(s):(std): PURKIS DANIEL ; DANIEL PURKIS
Inventor(s): PURKIS DANIEL PETERHEAD ; PURKIS DANIELGB
Agent(s): WRAYS; WRAYS PTY LTD; GOWLING LAFLEUR HENDERSON LLP; GOWLING WLG CANADA LLP; RIDOUT AND MAYBEE LLP; MURGITROYD AND CO; BROWN JAMES DOUGLAS; SABA AND CO TMP; WINSTEAD PC; MURGITROYD AND COMPANY
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 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 PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8-9): E21B23/06 E21B33/12 E21B34/06 E21B34/16 E21B43/00 E21B43/12 E21B47/00 E21B47/12 E21B47/20 (Advanced/Invention)
International class (IPC 1-7): E21B43/12
CPC: E21B33/12 E21B47/122 E21B23/06 E21B47/124 E21B34/066
European class: E21B34/16 E21B43/12
US class: 1/1 166/250.01 166/250.010S 166/332.8 166/373 166/64 166/64S 166/65.1 166/65.100S 166/66.4 166/66.400S 166/66.6

Classification Explorer

Cited documents: WO9205533 A1, WO12065126 A2, WO12065123 A2, WO10149644 A1, WO10149643 A1, WO10086654 A1, WO10038072 A1, WO09114356 A1, WO09109788 A1, WO09098512 A2, WO09050518 A2, WO09050517 A2, WO08059260 A2, WO07125335 A1, WO07108700 A1, WO06120466 A2, WO06109008 A1, WO06082421 A1, WO06082407 A1, WO06062407, WO06051250 A1, WO06046075 A2, WO04072434 A2, WO03080993 A1, WO0073625 A1, USRE39583 E, US8833469 BB, US8016037 BB, US7963452 BB, US7958715 BB, US7946356 BB, US7912678 BB, US7714741 BB, US7665527 BB, US7634942 BB, US7606682 BB, US7591318 BB, US7588100 BB, US7562712 BB, US7543637 BB, US7510001 BB, US7503398 BB, US7500389 BB, US7484625 BB, US7455108 BB, US7400263 BB, US7389205 BB, US7385523 BB, US7337850 BB, US7322410 BB, US7296462 BB, US7295491 BB, US7283061 BA, US7275602 BB, US7273102 BB, US7252152 BB, US7201231 BB, US7159654 BB, US7128154 BB, US7084769 BB, US7066256 BB, US7063148 BB, US7062413 BB, US7044229 BB, US7025146 BB, US7014100 BB, US6989764 BB, US6976535 BB, US6973416 BB, US6935425 BB, US6915848 BB, US6802373 BB, US6789619 BB, US6782948 BB, US6776240 BB, US6760275 BB, US6759968 BB, US6745833 BB, US6710720 BB, US6684953 BB, US6624759 BB, US6604063 BB, US6597175 BA, US6588505 BB, US6536524 BA, US6497280 BB, US6488082 BB, US6481505 BB, US6480811 BB, US6443228 BA, US6414905 BA,

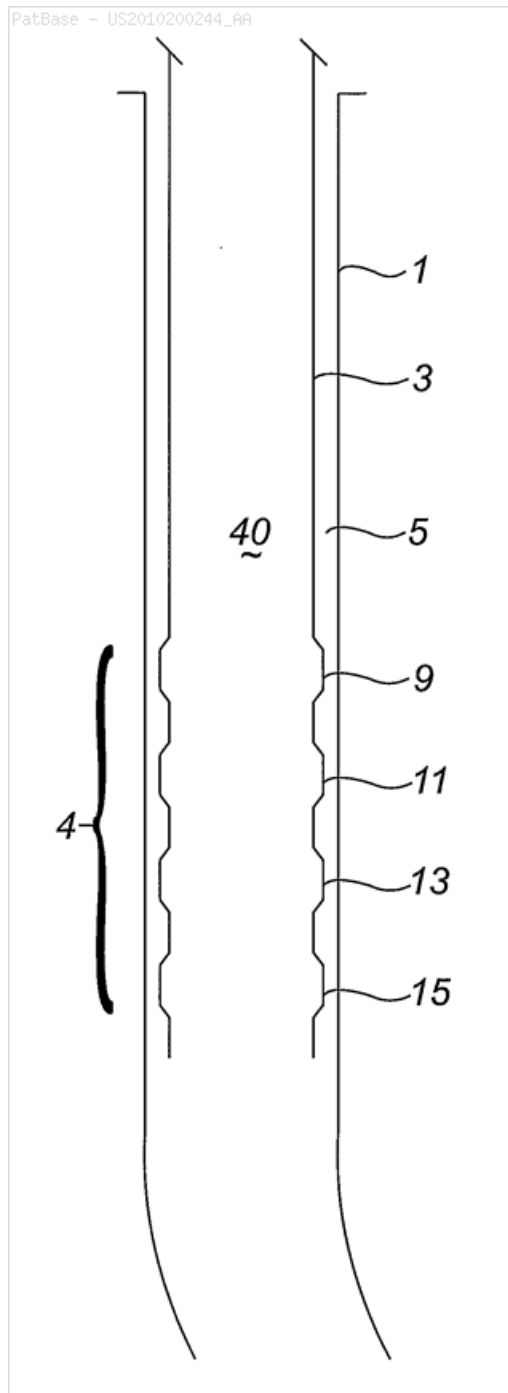
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Forward Citations:

WO18215747, WO18117999, WO17131856, WO17127404, WO16034876, WO14140585, WO12082248, US9879525, US9863222, US9850725, US9816373, US9800146, US9784070, US9759062, US9631458, US9631442, US9546547, US9488046, US9458697, US9453374, US9428976, US9359890, US9201157, US9133705, US9115573, US9103197, US9085954, US9010442, US8991509, US8899334, US8893811, US8833469, US8695710, US7980331, US2018066510, US2018058198, US2017187281, US2016076366, US2015285063, US2015176347, US2014332228, US2013328693, US2010186944, US10344583, US10287852, US10280712, US10273776, US10262168, US10190410, US10167717, US10167716, US10132149, US10100635, US10087725, US10066459, US10041335, US10036231, US10036211, US10024133, RU2549944, GC3600, GB2561786, EP2917466, EA029620, CN103261576, CN103261576, AU2016256716,

Abstract:

A completion apparatus (4) for completing a wellbore comprises a) a tool to alternatively open and close a throughbore (15) of the completion; b) a tool (13) to alternatively open and close an annulus defined between the outer surface of the completion and the inner surface of the wellbore; c) a tool to alternatively provide and prevent a fluid circulation route from the throughbore of the completion to the said annulus (11); and d) at least one signal receiver and processing tool (9) capable of decoding signals received relating to the operation of tools a) to c).

**5) Family number: 43087209** (US2009084552A)

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Title: PROVIDING DYNAMIC TRANSIENT PRESSURE CONDITIONS TO IMPROVE PERFORATION CHARACTERISTICS

Priority: US20070862297 20070927 WO2008US76755 20080918

Family:	Publication number	Publication date	Application number	Application date
	CN101397899 A	20090401	CN200810149299	20080927
	CO6270273 A2	20110420	CO20100048610	20100426
	ECSP100049 A	20100430	EC2010SP00049	20100324
	ECSP10010049 A	20100430	EC2010SP10049	20100324
	GB201004493 A0	20100505	GB20100004493	20080918
	GB2466143 A1	20100616	GB20100004493	20080918
	GB2466143 B2	20120711	GB20100004493	20080918
	NO20100523 A	20100426	NO20100000523	20100413
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	US2009084552 AA	20090402	US20070862297	20070927

US7896077 BB	20110301	US20070862297	20070927
WO09042479 A1	20090402	WO2008US76755	20080918

Probable Assignee: SCHLUMBERGER TECHNOLOGY CORP

Assignee(s):(std): BEHRMANN LAWRENCE A ; GROVE BRENDEN M ; HARVEY JEREMY ; SCHLUMBERGER CA LTD ; SCHLUMBERGER TECHNOLOGY CORP ; SCHLUMBERGER HOLDINGS ; SCHLUMBERGER TECHNOLOGY BV ; SCHLUMBERGER SERVICES PETROL ; TIBBLES RAYMOND J ; SCHLUMBERGER TECHNOLOGY BV

Assignee(s): SCHLUMBERGER CANADA LTD ; SCHLUMBERGER HOLDINGS LTD ; SERVICES PETROLIERS SCHLUMBERGER ; PRAD RESEARCH AND DEVELOPMENT LTD

Inventor(s):(std): GROVE BRENDEN M ; TIBBLES RAYMOND J ; BEHRMANN LAWRENCE A ; HARVEY JEREMY ; JEREMY HARVEY

Inventor(s): BRENDEN M GROVE ; RAYMOND J TIBBLES ; LAWRENCE A BEHRMANN

Agent(s): LUIS FELIPE CASTILLO GIBSONE; SCHLUMBERGER RESERVOIR COMPLETIONS; RODNEY; TROP PRUNER AND HU; KEVIN B; MCGOFF KEVIN BRAYTON ET AL

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 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 LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8-9): E21B29/02 E21B43/00 E21B43/11 E21B43/116 (Advanced/Invention); E21B43/00 E21B43/11 (Core/Invention)

CPC: E21B43/116 E21B43/00 E21B43/1

European class: E21B43/116

US class: 166/292 166/297 166/298 166/55 166/55.1 166/55S 166/63 166/63S

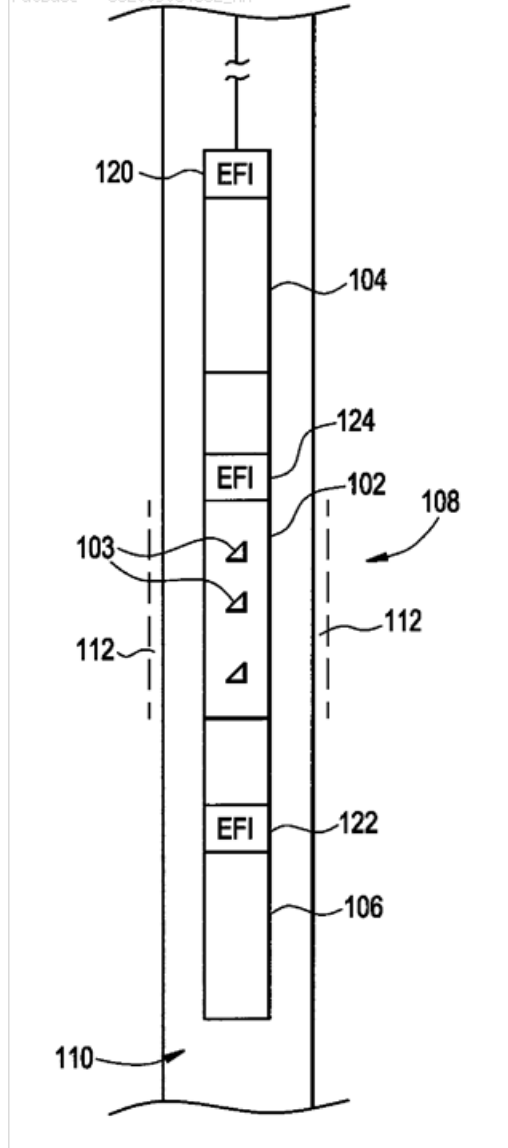
[Classification Explorer](#)

Cited documents: WO04074621 A3, WO04074621 A2, US7231978 BB, US7222676 BB, US7219731 BB, US7121340 BB, US7096954 BB, US7059407 BB, US7036594 BB, US6959765 BB, US6874579 BB, US6837310 BB, US6828280 BB, US6758271 BA, US6755249 BB, US6350721 BA, US6173783 BA, US6173783 B1, US6102120 A, US6069118 A, US5806593 A, US5559086 A, US5551514 A, US5436791 A, US5107929 A, US5063822 A, US4940852 A, US4391337 A, US4253523 A, US4120612 A, US3517745 A, US2828823 A, US2007142547 AA, US2005167108 AA,

Forward Citations: WO17131659, WO12154180, WO11163252, WO10141671, WO10141671, US9617194, US9359877, US9080430, US8844625, US8807003, US8794153, US8741191, US8739673, US8734960, US8555764, US8449798, US8424606, US8381652, US8336437, US7905285, US2013105146, US2012138311, US2012018156, US2011219978, US2011209871, US2011011587, US2011000669, US2010163238, US2010147587, US2009272527, US2009078420, CN104280315, CN102900406, CN102155207,

Abstract:

A transient overbalance condition is created in a wellbore interval such that a pressure of the wellbore interval is greater than a reservoir pressure in surrounding formation. Creating the transient overbalance condition causes a near-wellbore region of the formation to increase in pressure. The pressure in the wellbore interval is reduced at a rate that produces a relative underbalance condition in which the pressure in the wellbore interval is less than the pressure of the near-wellbore region of the formation, but the pressure in the wellbore interval is greater than the reservoir pressure.

**6) Family number: 47453338** (US2012037360A)

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Title: ACTUATORS AND RELATED METHODS

Priority: US20090172676P 20090424 US20100266116 20100426 US20100266123 20100426
 US20100266120 20100426 WO2010US01256 20100426 WO2010US01230 20100426
 WO2010US01241 20100426 US20110266120 20111024 US20140564368 20141209

Family:	Publication number	Publication date	Application number	Application date
	CA2759798 AA	20111024	CA20102759798	20100426
	CA2759799 AA	20111024	CA20102759799	20100426
	CA2759803 AA	20111024	CA20102759803	20100426
	EP2422042 A2	20120229	EP20100767444	20100426
	EP2422043 A2	20120229	EP20100767446	20100426
	EP2422044 A2	20120229	EP20100767447	20100426
	US2012037360 AA	20120216	US20100266123	20100426
	US2012037380 AA	20120216	US20100266116	20100426
	US2012043092 AA	20120223	US20100266120	20100426
	US2016237797 AA	20160818	US20140564368	20141209
	US8905139 BB	20141209	US20100266120	20100426
	US8960295 BB	20150224	US20100266116	20100426
	WO10123585 A2	20101028	WO2010US01230	20100426
	WO10123585 A3	20110414	WO2010US01230	20100426
	WO10123587 A2	20101028	WO2010US01241	20100426
	WO10123587 A3	20110203	WO2010US01241	20100426
	WO10123588 A2	20101028	WO2010US01256	20100426
	WO10123588 A3	20110310	WO2010US01256	20100426

Probable Assignee: CHEVRON USA INC

Assignee(s):(std): ARIZMENDI JR NAPOLEON ; ARIZMENDI NAPOLEON JR ; CHEVRON USA INC ; COMPLETION TECHNOLOGY LTD ; RUBBO RICHARD PAUL

Assignee(s): PRODUCTION SCIENCES INC DBA INFICOMM INC ; PRODUCTION SCIENCE INC ; PRODUCTION SCIENCES INC

Inventor(s):(std): ARIZMENDI JR NAPOLEON ; RUBBO RICHARD PAUL ; ARIZMENDI NAPOLEON JR

Agent(s): RIDOUT AND MAYBEE LLP; HARRISON GODDARD FOOTE; RAMEY AND BROWNING PLLC; RAMEY WILLIAM P III ET AL; RAMEY III WILLIAM P ET AL

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

International class (IPC 8-9): E21B23/04 E21B33/12 E21B34/00 E21B34/06 E21B34/14 E21B41/00 E21B43/00 E21B43/14 E21B43/26 E21B47/00 F16K17/14 F16K31/04 F16K31/122 F16K31/528 (Advanced/Invention); E21B34/00 (Advanced/Non-invention)

CPC: E21B23/04 E21B34/066 E21B41/00 E21B2034/002 E21B2034/005 E21B43/14 E21B33/12 E21B43/26 E21B33/14 E21B43/11 E21B2034/007 E21B34/06

European class: E21B23/04 E21B34/06 E21B34/06M E21B41/00 P21B34/00B P21B34/00F

US class: 166/177.5 166/250.01 166/250.010P 166/308.1 166/317 166/330 166/330S 166/332.2 166/332.200S 166/332.3 166/332.8 166/332.800S 166/369 166/373 166/376 166/53 166/53S

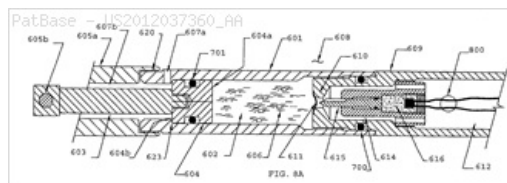
[Classification Explorer](#)

Cited documents: WO07003597, US8286717 BB, US7802625 BB, US7717182 BB, US7658229 BB, US7426938 BB, US7267172 BB, US7159660 BB, US7124818 BB, US7114558 BB, US7059407 BB, US6973973 BB, US6957701 BB, US6808020 BB, US6732803 BB, US6631882 BB, US6631772 BB, US6575247 BB, US6547011 BB, US6543540 BB, US6543538 BB, US6520255 BB, US6497290 BA, US6497284 BB, US6494260 BB, US6488082 BB, US6474419 BB, US6446727 BA, US6408942 BB, US6394184 BB, US6296066 BA, US6286598 BA, US6272434 BA, US6257338 BA, US6257332 BA, US6241013 BA, US6189621 BA, US6186236 BA, US6186230 BA, US6186227 BA, US6131662 A, US6116343 A, US6098713 A, US6092599 A, US6065536 A, US6053248 A, US6012525 A, US6003607 A, US5996687 A, US5990051 A, US5954133 A, US5947200 A, US5934377 A, US5921318 A, US5890536 A, US5884703 A, US5865252 A, US5845712 A, US5832998 A, US5819853 A, US5812068 A, US5803178 A, US5755286 A, US5704426 A, US5673658 A, US5669448 A, US5598891 A, US5579844 A, US5513703 A, US5475882 A, US5390741 A, US5353875 A, US5314019 A, US5309995 A, US5203414 A, US5161618 A, US5131472 A, US5103912 A, US5058674 A, US5025861 A, US4867241 A, US4865131 A, US4860831 A, US4852391 A, US4809781 A, US4791990 A, US4776393 A, US4702316 A, US4671352 A, US4637468 A, US4633954 A, US4559786 A, US4557325 A, US4415035 A, US4244425 A, US4139060 A, US4137182 A, US4113314 A, US4102401 A, US3874461 A, US3739723 A, US3712379 A, US3662833 A, US3547198 A, US3429384 A, US3427652 A, US3366188 A, US3135090 A, US3118501 A, US3111988 A, US3028914 A, US2986214 A, US2968243 A, US2925775 A, US2431751 A, US2326404 A, US2067408 A, US2009014168 AA, US2008066923 AA, US2008053662 AA, US2008053658 AA, US2008035349 AA, US2007246227 AA, US2007204999 AA, US2006124311 AA, US2003141073 AA, RU2114284, EP1062405,

Forward Citations: WO18132666, WO17223158, WO17131856, WO16007237, WO15016878, WO14055074, WO14049360, WO14049360, WO12115868, WO12115868, US9784880, US9784095, US9745847, US9739119, US9726004, US9708894, US9650889, US9574431, US9540912, US9500068, US9482076, US9051810, US9010442, US8800668, US8776896, US8757265, US8739902, US8689893, US8684087, US8322426, US2016061018, US2016061009, US2015275639, US2015275622, US2015261224, US2015136425, US2014083689, US2012273224, US2012199367, US2011265987, US10344204, US10309174, US10294754, US10273780, US10161195, US10151187, US10125572, US10119390, US10101715, US10101714, US10100608, US10066467, US10012064, NO340455, GB2561786, GB2543233, GB2543233, GB2534636, GB2521295, GB2508482, CN104812992, CN104704195, CN104704195, CN103696748, CN103696748, AU2013322351, AU2012391491,

Abstract:

Various embodiments of the present invention disclose enhanced and improved well production tools for increasing the stability of production zones in a wellbore. Various embodiments of the present invention generally relate to apparatuses, systems, and processes for efficiently and effectively isolating zones within a wellbore.



EP2812528 B1	20181226	EP20120868078	20120210
EP3470619 A1	20190417	EP20180206459	20120210
US2013206417 AA	20130815	US20130760149	20130206
US2014216763 AA	20140807	US20130018192	20130904
US8534360 BB	20130917	US20130760149	20130206
US9328584 BB	20160503	US20130018192	20130904
WO13119255 A1	20130815	WO2012US24707	20120210

Probable Assignee: HALLIBURTON CO

Assignee(s):(std): HALLIBURTON CO ; HALLIBURTON ENERGY SERV INC ; HALLIBURTON ENERGY SERVICES INC ; WEBBER ANDREW JOHN ; KALB FRANK DAVID

Assignee(s): HALLIBURTON ENERGY SERVICES INC3000 N. SAM HOUSTON PARKWAY E.HOUSTONTX77032-3219US

Inventor(s):(std): KALB FRANK DAVID ; WEBBER ANDREW JOHN

Inventor(s): FRANK DAVID KALB ; ANDREW JOHN WEBBER ; WEBBER ANDREW JOHNUS ; KALB FRANK DAVIDUS

Agent(s): CALLINANS; FISHER ADAMS KELLY CALLINANS; FB RICE; FB RICE PTY LTD; NORTON ROSE FULBRIGHT CANADA LLP SENCRL SRL; HOFFMANN EITLE; FISH AND RICHARDSON PC; SCOTT F; SCOTT; GRISWOLD JOSHUA A ET AL

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 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

International class (IPC 8-9): E21B33/12 E21B34/00 E21B34/06 E21B34/12 E21B34/14 F16K27/06 F16K5/06 F16K5/12 F16K5/20 (Advanced/Invention); E21B34/00 (Advanced/Non-invention)

CPC: E21B34/14 E21B34/06 F16K5/0605 F16K5/201 F16K27/067 E21B2034/002

US class: 1/1 166/316 166/332.3 166/334.2 166/387 251/208

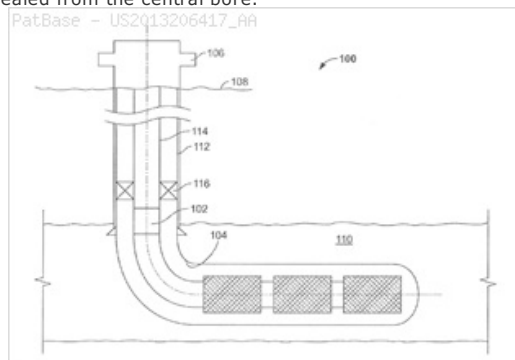
[Classification Explorer](#)

Cited documents: WO09076228 A2, WO09076228 A2, US8596300 BB, US7350765 BB, US7021386 BB, US6779779 BB, US6412756 BA, US5771929 A, US5524863 A, US5052657 A, US4881718 A, US4306623 A, US4291722 A, US4289165 A, US4278130 A, US3883113 A, US3667557 A, US3398928 A, US3398762 A, US3110626 A, US3036600 A, US2012273223 AA, US2012260991 AA, US2009032762 AA, US2009032762 AA, US2008283787 AA, US2008283787 AA, US2008105845 AA, US2008105845 AA, GB2374886 A1, GB2374886 A1, EP0085565 A1,

Forward Citations: WO18056966, WO17131856, WO17010990, WO16182574, WO15099787, US9869162, US9657550, US9512928, US2016003004, US2015211643, GB2566909, GB2561786, GB2555312, GB2555007,

Abstract:

A wellbore ball valve includes a ball-type valve closure having an interior, central bore. A lower ball carrying assembly defines a first annular, sealing seat surface in contact with and adapted to seal with the exterior of the valve closure. The first seat surface defines a first through hole. An upper assembly defines a second annular seat surface in contact with the exterior of the valve closure. The second seat surface defines a second through hole. The second through hole is shaped differently from the first through hole in that it at least partially overlaps with the central bore while the first through hole is sealed from the central bore.



8) Family number: 48057478 (US2011000669A)

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Title: PERFORATING GUN ASSEMBLY AND METHOD FOR CONTROLLING WELLBORE PRESSURE REGIMES DURING PERFORATING

Priority: US20090222106P 20090701 US20090512530 20090730 EP20100167199 20100624
US20110104014 20110509 US20120610855 20120911 US20120610853 20120911

Family:	Publication number	Publication date	Application number	Application date
	AU2010202512 AA	20110120	AU20100202512	20100616
	AU2010202512 BB	20150910	AU20100202512	20100616
	BRPI1002493 A2	20120313	BR2010PI02493	20100701
	DE602010044013 D1	20170914	DE201060044013T	20100624
	EP2282003 A2	20110209	EP20100167199	20100624
	EP2282003 A3	20140129	EP20100167199	20100624
	EP2282003 B1	20170802	EP20100167199	20100624
	MY153338 A	20150129	MY20100003045	20100625
	US2011000669 AA	20110106	US20090512530	20090730
	US2011209871 AA	20110901	US20110104014	20110509

US2013000979 AA	20130103	US20120610853	20120911
US2013008655 AA	20130110	US20120610855	20120911
US8336437 BB	20121225	US20090512530	20090730
US8555764 BB	20131015	US20110104014	20110509
US8739673 BB	20140603	US20120610853	20120911
US8807003 BB	20140819	US20120610855	20120911
WO12154180 A1	20121115	WO2011US36156	20110511

Probable Assignee: HALLIBURTON CO

Assignee(s):(std): BARKER JAMES MARSHALL ; BARLOW DARREN ROSS ; HALLIBURTON CO ; HALLIBURTON ENERGY SERV INC ; HALLIBURTON ENERGY SERVICES INC ; LE CAM VAN ; NELSON JEFFREY ALAN ; VAN LE CAM

Assignee(s): HALLIBURTON ENERGY SERVICES INC DALLAS

Inventor(s):(std): BARLOW DARREN ROSS ; LE CAM VAN ; BARKER JAMES MARSHALL ; NELSON JEFFREY ALAN ; ROSS BARLOW DARREN ; MARSHALL BARKER JAMES ; VAN LE CAM

Inventor(s): BARLOW DARREN ROSS HOUSTON ; LE CAM VAN MISSOURI CITY ; BARKER JAMES MARSHALL MANSFIELD ; DARREN ROSS BARLOW ; CAM VAN LE ; JAMES MARSHALL BARKER

Agent(s): CALLINANS; SPRUSON AND FERGUSON; FISHER ADAMS KELLY CALLINANS; PATENTANWAELTE WEISSE MOLTSMANN AND WILLEMS PARTNERSCHAFTSGESELLSCHAFT; BENNETT ADRIAN ROBERT J; LAWRENCE R YOUST LAWRENCE YOUST PLLC; LAWRENCE R; CONLEY ROSE PC ET AL

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 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

International class (IPC 8-9): E21B29/02 E21B43/11 E21B43/116 E21B43/117 E21B43/119 E21B43/12 E21B43/16 E21B43/25 (Advanced/Invention)

CPC: E21B43/12 E21B43/117 E21B43/1195

European class: E21B43/117 E21B43/119D E21B43/12

US class: 102/310 102/313 102/320 166/297 166/55.1 166/55.100S 166/55.2 166/55.200S 166/63 166/63S 175/4.54 175/4.6 89/1.15

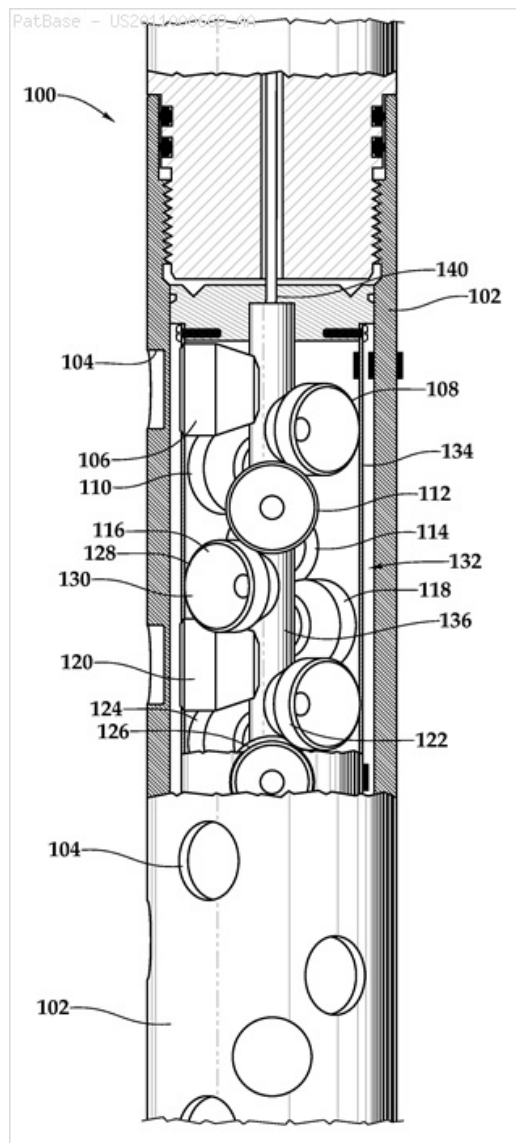
[Classification Explorer](#)

Cited documents: WO12154180 A1, WO10065552 A2, WO10065552 A2, US8555764 BB, US8544563 BB, US8505454 BB, US8449798 BB, US8381652 BB, US8336437 BB, US8220394 BB, US8166882 BB, US8156871 BB, US7913761 BB, US7913603 BB, US7905285 BB, US7753117 BB, US7712416 BB, US7621332 BB, US7571768 BB, US7533722 BB, US7451819 BB, US7428921 BB, US7393423 BB, US7287589 BB, US7284612 BB, US7243725 BB, US7182138 BB, US7036594 BB, US7011027 BB, US6966377 BB, US6896059 BB, US6874579 BB, US6840178 BB, US6761219 BB, US6732798 BB, US6598682 BB, US6554081 BA, US6543538 BB, US6536524 BA, US6527052 BB, US6446720 BA, US6446719 BB, US6386288 BA, US6378438 BA, US6349649 BA, US6347673 BA, US6336506 BB, US6263283 BA, US6158511 A, US5775426 A, US5295545 A, US5098487 A, US4290486 A, US4253523 A, US4253523 A, US4220687 A, US3924510 A, US3375108 A, US2013224061 AA, US2013008655 AA, US2013000979 AA, US2012234194 AA, US2012027883 AA, US2011219978 AA, US2011209871 AA, US2011155013 AA, US2011000669 AA, US2010230104 AA, US2010133005 AA, US2010132945 AA, US2010096136 AA, US2009183916 AA, US2009084552 AA, US2009078420 AA, US2009078420 AA, US2009078144 AA, US2009050321 AA, US2008289529 AA, US2008034951 AA, US2007158109 AA, US2007034369 AA, US2006266551 AA, US2006118303 AA, US2005011395 AA, US2004231840 AA, US2004089449 AA, US2003131749 AA, US2002178962 AA,

DE102005059934 A1

Forward Citations: WO18144901, WO17131659, WO17105925, WO16130162, WO16118179, WO16100064, WO16007156, WO15171150, WO14182304, WO14168699, WO14168699, WO14123510, WO14117061, WO14008514, WO14008514, WO13187905, USRE47339, US9976397, US9753177, US9617194, US9371719, US9238956, US9145763, US9016320, US8844625, US8807213, US8807003, US8794153, US8741191, US8739673, US8734960, US8555764, US8449798, US8381652, US8336437, US8167044, US2016333684, US2016329808, US2016245053, US2015129753, US2015027302, US2014299322, US2013105146, US2013008655, US2012018156, US2011219978, US2011209871, US2011139505, US2011000669, US2009078420, US10337301, US10337300, US10253603, US10208573, US10174602, US10156129, US10138718, US10024145, GB2552095, GB2524420, AU2013377974,

Abstract:
A perforating gun assembly for use in a wellbore. The perforating gun assembly includes a carrier gun body and a charge holder disposed within the carrier gun body. A plurality of shaped charges are supported within the carrier gun body. A secondary pressure generator is operably associated with at least one of the shaped charges. The secondary pressure generator optimizes the wellbore pressure regime immediately after detonation of the shaped charges by controlling the dynamic underbalance created by the empty gun chambers to prevent excessive dynamic underbalance which may detrimentally effect the perforating operation.



9) Family number: 32069509 (US2005247449A)

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Title: SURGE CHAMBER ASSEMBLY AND METHOD FOR PERFORATING IN DYNAMIC UNDERBALANCED CONDITIONS

Priority: US20040841817 20040508 AU20050201862 20050503 US20070818408 20070614
AU20100201803 20100505

Family:

Publication number	Publication date	Application number	Application date
AU2005201862 AA	20051124	AU20050201862	20050503
AU2005201862 BB	20100325	AU20050201862	20050503
AU2005201862 CA	20100916	AU20050201862	20050503
AU2010201803 AA	20100527	AU20100201803	20100505
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US7243725 BB	20070717	US20040841817	20040508
US7533722 BB	20090519	US20070818408	20070614

Probable Assignee: HALLIBURTON CO

Assignee(s):(std): GEORGE FLINT R ; HALLIBURTON CO ; HALLIBURTON ENERGY SERV INC ; HALLIBURTON ENERGY SERVICES INC ; HARRISON RYAN A ; WATSON ROGER C

Inventor(s):(std): FLINT R GEORGE ; GEORGE FLINT R ; HARRISON RYAN A ; ROGER C WATSON ; RYAN A HARRISON ; WATSON ROGER C

Inventor(s): WATSON ROGER ; HARRISON RYAN ; GEORGE FLINT

Agent(s): FISHER ADAMS KELLY CALLINANS; SPRUSON AND FERGUSON; CALLINANS; LAWRENCE R YOUST DANAMRAJ AND YOUST PC; LAWRENCE R YOUST; LAWRENCE R; YOUST LAWRENCE R

International class (IPC 8-9): E21B29/02 E21B43/11 E21B43/116 E21B43/117 E21B43/119 E21B43/24 E21B43/25 (Advanced/Invention); E21B29/00 E21B43/11 E21B43/16 E21B43/25 (Core/Invention); E21B (Subclass/Invention)

International class (IPC 1-7): E21B E21B43/116 E21B43/117 E21B43/119 E21B43/24 E21B43/25

CPC: E21B43/1195 E21B43/11

European class: E21B43/11 E21B43/119D

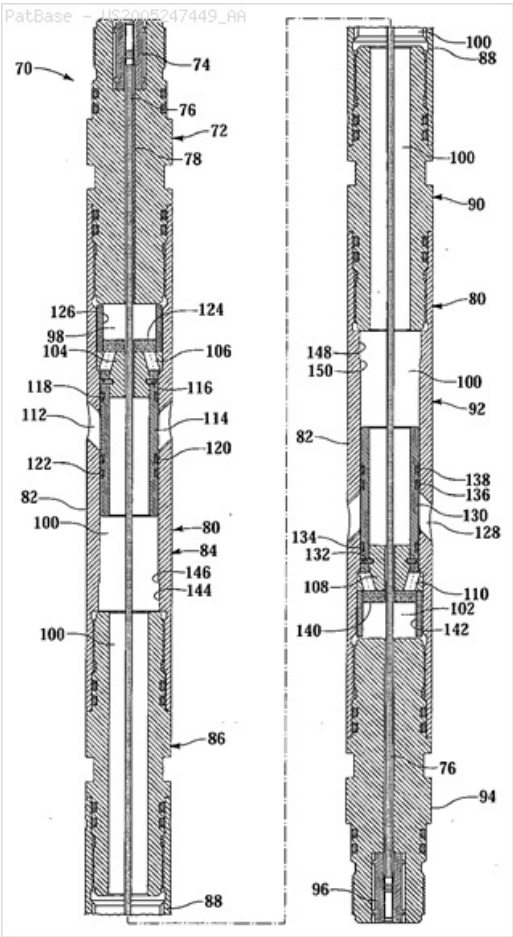
US class: 166/256 166/260 166/297 166/299 166/55.1 166/55.2 166/63

[Classification Explorer](#)

Cited documents: WO9942696 A1, WO0165060 A1, WO0125595 A1, US7428921 BB, US7287589 BB, US7284612 BB, US7243725 BB, US7182138 BB, US7036594 BB, US6966377 BB, US6896059 BB, US6874579 BB, US6732798 BB, US6598682 BB, US6554081 BA, US6527052 BB, US6446720 BA, US6446719 BB, US6394184 BB, US6347673 BA, US6325146 BA, US6173783 BA, US6173783 B1, US5865254 A, US5635636 A, US5551344 A, US5287741 A, US5103912 A, US5088557 A, US5058674 A, US4862964 A, US4650010 A, US4616701 A, US4605074 A, US4557331 A, US4484632 A, US4175042 A, US3948321 A, US3186485 A, US2004231840 AA, US2004159434 AA, US2004159432 AA, US2004099418 AA, US2004089449 AA, US2002020535 AA, GB2406865 A1, GB2406114 A1, GB2396175 A1, EP0415770 B1, EP0155128 B1,

Forward Citations: WO18222207, WO17131659, WO16205527, WO16073609, WO15085200, WO13123268, WO12154180, US9926777, US9909408, US9863202, US9759048, US9617194, US9598940, US9447678, US9297228, US9243474, US9206675, US9091152, US8985200, US8978817, US8978749, US8899320, US8881816, US8875796, US8844625, US8807003, US8794153, US8741191, US8739673, US8734960, US8726996, US8714252, US8714251, US8555764, US8490686, US8449798, US8424606, US8408286, US8397814, US8397800, US8397741, US8393393, US8381652, US8336437, US8302688, US8006762, US7984761, US7905285, US7861784, US7845410, US7819046, US7712532, US7640986, US7571768, US7533722, US7451819, US2013105146, US2012152614, US2011219978, US2011209871, US2011174487, US2011132608, US2011000669, US2010314562, US2010163238, US2010147587, US2010071895, US2009272527, US2009151952, US2009151948, US2009071319, US2009032258, US2008105430, US2007240873, US2007209802, US2005167108, CN107849913, CN104220694,

Abstract:
A surge chamber assembly (70) for use in a wellbore includes a housing (80) having one or more openings (112), a surge chamber (100) and a combustion chamber (98). The openings (112) provide fluid communication between the exterior (82) of the housing (80) and the surge chamber (100). A sleeve (114) is slidably positioned within the housing (80) and has a first position wherein fluid communication through the openings (112) is prevented and a second position wherein fluid communication through the openings (112) is allowed. A combustible element (124) is positioned in the combustion chamber (98) such that combusting the combustible element (124) generates pressure in the combustion chamber (98) that actuates the sleeve (114) from the first position to the second position.



10) Family number: 51040813 (US2012125627A)

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Title: SLEEVE VALVE
Priority: US20100344812P 20101015 CA20112755609 20111017 US20110274893 20111017
US20110274761 20111017

Family:	Publication number	Publication date	Application number	Application date
	CA2755609 AA	20120415	CA20112755609	20111017
	US2012125627 AA	20120524	US20110274893	20111017
	US2012267122 AA	20121025	US20110274761	20111017
	US9133689 BB	20150915	US20110274893	20111017
	US9371715 BB	20160621	US20110274761	20111017

Probable Assignee: SCHLUMBERGER TECHNOLOGY CORP
Assignee(s):(std): GEORGE GRANT ; SARGENT SHANE ; SCHLUMBERGER TECHNOLOGY CORP
Assignee(s): STEELHAUS TECHNOLOGIES INC
Inventor(s):(std): GEORGE GRANT ; SARGENT SHANE
Agent(s): OKIMAW RICHARD D; SMART AND BIGGAR; BRANDON; JEFFERY R
International class (IPC 8-9): E21B17/10 E21B23/06 E21B33/128 E21B34/06 E21B34/10 E21B34/14 E21B43/10 E21B43/26 (Advanced/Invention); E21B34/00 (Advanced/Non-invention)
CPC: E21B34/14 E21B43/26 E21B2034/007
European class: E21B34/14 E21B43/26 P21B34/00S
US class: 1/1 166/208 166/316 166/316S 166/319 166/319S 166/373 166/382

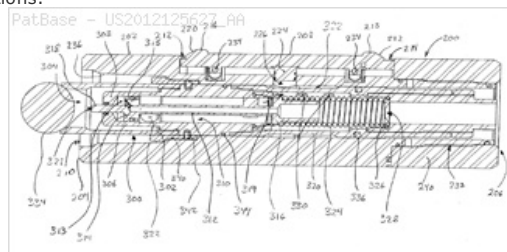
[Classification Explorer](#)

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Forward Citations: WO17131856, WO17106395, WO16008400, WO15020849, WO14153314, WO14140609, WO14109773, US9932514, US9695656, US9638003, US9500063, US9371715, US9133689, US10280707, US10119378, GB2561786,

Abstract:

An apparatus and method for selectably opening a valve body having a central passage and a plurality of apertures therethrough. The apparatus comprises a sleeve slidably located within the central passage of the valve body adapted to selectably cover or uncover the apertures. The apparatus further comprises a shifting tool slidably locatable within the sleeve having at least one sleeve engaging member selectably extendable therefrom in parallel to a central axis thereto engagable upon the sleeve wherein the shifting tool is moveable. The method comprises positioning the shifting tool within the sleeve in a first or second position, extending the sleeve engaging members from the shifting tool in parallel to a central axis of the shifting tool into engagement upon the sleeve, and axially moving the shifting tool and the sleeve to the other of the first or second positions.

**11) Family number: 55321901** (US2013327536A)

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Title: ROTATIONAL SHEAR VALVE
Priority: US20120492223 20120608 WO2013EP61748 20130606

Family:	Publication number	Publication date	Application number	Application date
	EP2882928 A2	20150617	EP20130727201	20130606
	EP2882928 B1	20181107	EP20130727201	20130606
	US2013327536 AA	20131212	US20120492223	20120608
	US9309737 BB	20160412	US20120492223	20120608
	WO13182658 A2	20131212	WO2013EP61748	20130606
	WO13182658 A3	20140731	WO2013EP61748	20130606

Probable Assignee: VETCO GRAY UK LTD
Assignee(s):(std): ALEXANDER DAVID J ; HASHEMIZADEH HUSSAIN ; PALANISAMY PRABHU ; VETCO GRAY U K LTD ; VETCO GRAY UK LTD
Inventor(s):(std): PALANISAMY PRABHU ; HASHEMIZADEH HUSSAIN ; ALEXANDER DAVID J ; ALEXANDER DAVID
Agent(s): ILLINGWORTH LAW WILLIAM ILLINGWORTH; BRACEWELL LLP; ILLINGWORTH LAW WILLIAM
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

International class (IPC) E21B29/04 E21B29/08 E21B33/06 E21B34/06 F16K27/00 F16K31/44 F16K5/04 (Advanced/Invention
8-9):

CPC: E21B29/04 E21B29/08

US class: 1/1 166/373 251/215 251/309 251/366

[Classification Explorer](#)

Cited documents: WO9937883 A1, WO9937883 A1, WO9216714 A1, WO9216714 A1, US8567490 BB, US5931442 A,
US5370362 A, US5327923 A, US5284209 A, US5199493 A, US5199493 A, US5161617 A, US4911410 A,
US4612983 A, US4519575 A, US4513823 A, US4262693 A, US4215749 A, US3893478 A, US3763890 A,
US2014264099 AA, US2006102359 AA, US1648107 A, GB2352494 A1, GB2352494 A1,

Forward Citations: WO18222627, WO17131856, WO16001628, US9441439, US2015354288, US2015233212, US2014041501,
US10246969, US10030482, GB2561786, EP3161243, EP3161243,

Abstract:

A rotating gate valve can be used to shear cables or tubing as it closes to obstruct flow. In embodiments, a valve body can have a flow passage and a lateral bore that is transverse to the flow passage. The gate can have a generally cylindrical shape and can rotate about the axis of the gate as it moves laterally to close a flow passage. The lateral and rotational movement can shear articles such as, for example, cables and tubing that extend through the flow passage.

PatBase - US2013327536_AA

