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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT OF THE ENTIRE INTEREST AND THE GOODWILL

CONVEYING PARTY DATA

Name	Formerly	Execution Date	Entity Type
Logan Completion systems, inc.		02/05/2018	Corporation: CANADA

RECEIVING PARTY DATA

Name:	wellfirst technologies, inc.
Street Address:	15815 waverly drive
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Postal Code:	77032
Entity Type:	Corporation: TEXAS

PROPERTY NUMBERS Total: 2

Property Type	Number	Word Mark
Serial Number:	85318428	MULTISTIM
Serial Number:	85318436	MULTISTIM

CH $65.00 85318428

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DATE SIGNED:	02/07/2018

Total Attachments: 15
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ASSIGNMENT AGREEMENT

WHEREAS, Assignors, Logan Completion Systems, Inc., an entity formed under the laws of Alberta ("LCS" or "Assignor") is the Owner of Record of the inventions disclosed in the patents or patent applications ("Patents") and trademarks or trademark applications ("Marks") (the "Patents" and "Marks" are collectively referred to as the "Intellectual Property") listed in the attached Exhibit A, hereinafter called the "Intellectual Property", incorporated herein and made a part hereof.

WHEREAS, Assignor and Wellfirst Technologies, Inc., a Texas corporation ("Assignee"), entered into that certain Asset Purchase Agreement dated as of July 20, 2017, under which Assignor sold transferred and assigned to Assignee, all right, title and interest in and to the Intellectual Property (the "Purchase Agreement").

NOW THEREFORE, for the good and valuable consideration paid to Assignor by Assignee, the receipt and sufficiency of which is hereby acknowledged, and to evidence certain transfers and assignments made in the Purchase Agreement, ASSIGNOR HEREBY ASSIGNS TO ASSIGNEE:

1. The entire right, title and interest in the Patents disclosed therein and in all applications claiming the benefit thereof or priority thereto and in all divisions, continuations and continuations-in-part of said applications, or reissues or extensions of Letters Patent or patents issuing therefrom or granted thereon, and in all corresponding applications which may be filed in countries foreign to the United States, and in all patents issuing thereon in the United States and foreign countries.

2. All of the right, title and interest, whether statutory or at common law, in and to the Marks, together with the entire business symbolized by the Marks, the goodwill of the business symbolized by the Marks, the right to sue for past, present and future infringement, dilution, misappropriation, violation, or breach thereof, and the right to recover, collect and own any monetary or other damages, and to obtain injunctive relief, as a result thereof.

3. The right to file foreign patent applications on said inventions disclosed in the Patents in its own name, wherever such right may be legally exercised, including the right to claim the benefits of the International Convention for such applications.

4. All claims for damages and all of the remedies arising out of any infringement of any Patents or from any inventions otherwise assigned herein which may have accrued prior to the date of this assignment or may accrue, including, but not limited to, the right to sue for and collect and retain damages for past infringements of the Patents or on any of the inventions otherwise assigned herein.

5. All right, title and interest in and to any and all other intellectual property rights owned by Assignor in all documentation, source code or other materials, if any, implementing the inventions set forth in the Intellectual Property.

6. Assignor hereby authorizes and requests the United States Commissioner of Patents and Trademarks, and such Patent and Trademark Office officials in foreign countries as are duly authorized by their laws, to issue any and all patents or trademarks on any patent or trademark applications related to the Intellectual Property or to any other invention otherwise assigned herein to the Assignee as the owner of the entire interest, for the sole use and benefit of the said Assignee, its successors, assigns and legal representatives.

7. Assignor hereby agrees to sign all lawful papers and to perform all other lawful acts which the Assignee may request of Assignor to make this Assignment fully effective, including, by way of example but not of limitation, the following:

    a. Prompt execution of all original, divisional, substitute, reissue, and other United States and foreign patent applications on said inventions, and all lawful documents requested by the Assignee to further the prosecution of any of such patent applications.

    b. Cooperation to the best of Assignor's ability in the execution of all lawful documents, the production of evidence, nullification, reissue, extension, or infringement proceedings involving said inventions.

[SIGNATURE PAGE FOLLOWS]

This assignment and agreement shall be binding upon Assignor's heirs and legal representatives dated this 5th day of February, 2018.

ASSIGNEE:

Wellfirst Technologies, Inc..

_____

Printed Name: _____

Title: _____

ASSIGNOR:

Logan Completion Systems, Inc.

_____

Printed Name: John Boggs

Title: Director

Exhibit A
Transferred Assets

OurRef	Attorney Ref	Patent/Trademark	Title	City	App Date	App No.	Grant/Reg Date	Patent/Trademark No.	Status	Owner	Next due date	Remarks
136943-2001	LCSI-P0004CA	Patent	METHOD AND APPARATUS FOR USE IN SELECTIVELY FRACING A WELL	CA	10/14/08	2611778			Abandoned	Logan Completion Systems Inc.		
136943-2002	LCSI-P0004CA-D1	Patent	METHOD AND APPARATUS FOR USE IN SELECTIVELY FRACING A WELL	CA	10/14/08	2882671			Abandoned	Logan Completion Systems Inc.		
136943-2003	LCSI-P0005WO-CA	Patent	SELECTIVE FRACTURING TOOL	CA	04/26/10	2731161	06/18/13	2731161	Issued	Logan Completion Systems Inc.	04/26/14	Annuities past due, can be revived before April 16, 2018
136943-2005	LCSI-P0005WO-CA-D1	Patent	SELECTIVE FRACTURING TOOL	CA	07/27/12	2784569	10/25/16	2784569	Issued	Logan Completion Systems Inc.	04/26/14	Annuities past due, can be revived before April 16, 2018
136943-1503	LCSI-P0005WO-US	Patent	SELECTIVE FRACTURING	US	02/16/12	13/266,436	03/22/16	9,291,034	Issued	Logan Completion		
136943-1504	LCSI-P0005WO-US-D1	Patent	SELECTIVE FRACTURING	US	07/25/13	13/951,439	05/20/14	8,727,010	Issued	Logan Completion		
136943-7000	LCSI-M0001CA	Trademark	MULTISTIM	CA	06/11/09	1399229	12/10/09	TMA755477	Registered	Logan Completion	12/10/24	Renewal
136943-3001	LCSI-M0002US	Trademark	MULTISTIM (goods)	US	05/11/11	85/318428			Pending	Logan Completion	n/a	awtg approval of Statement of Use
136943-3002	LCSI-M0003US	Trademark	MULTISTIM (services)	US	05/11/11	85/318436			Pending	Logan Completion	n/a	awtg approval of Statement of Use

US008727010B2

(12) United States Patent
Turner et al.

(10) Patent No.: US 8,727,010 B2
(45) Date of Patent: May 20, 2014

(54) SELECTIVE FRACTURING TOOL

(75) Inventors: **Don Turner**, Lloydminster (CA); **Sean Campbell**, Airdrie (CA); **Grant George**, Kelowna (CA)

(73) Assignee: **Logan Completion Systems Inc.**, Calgary, Alberta (CA)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: **13/557,438**

(22) Filed: **Jul. 25, 2012**
(Under 37 CFR 1.47)

(65) **Prior Publication Data**

US 2012/0285687 A1 Nov. 15, 2012

Related U.S. Application Data

(63) Continuation of application No. 13/266,498, filed as application No. PCT/CA2010/000620 on Apr. 26, 2010.

(60) Provisional application No. 61/172,915, filed on Apr. 27, 2009.

(51) **Int. Cl.**
E21B 34/14 (2006.01)

(52) **U.S. Cl.**
USPC **166/332.4**; 166/373; 166/306; 166/177.5; 166/334.4

(58) **Field of Classification Search**
CPC E21B 23/04; E21B 34/08; E21B 34/10; E21B 34/105; E21B 34/14; E21B 43/25; E21B 43/26; E21B 2034/002
USPC 166/373, 381, 383, 386, 318, 332.1, 166/332.4
See application file for complete search history.

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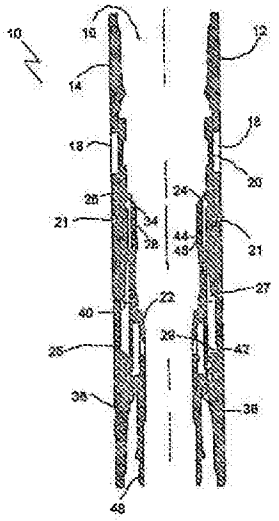
Primary Examiner — Jennifer H Gay
Assistant Examiner — Elizabeth Gitlin
(74) *Attorney, Agent, or Firm* — Marc A. Hubbard; Hubbard Law PLLC

(57) **ABSTRACT**

A tool for selectively treating a wellbore with fluid that includes a tubing string having a sidewall defining an inner bore, the sidewall comprising a flow area having at least one fluid flow port that permits fluid flow through the sidewall. Fluid is prevented from flowing through the flow area when a closure is in a closed position. When in the open position, fluid flows through the flow area. An axial seal is connected to the closure to selectively close the inner bore against fluid pressure to apply the predetermined opening force to move the closure to the open position. A releasable connector connects the axial seal to the closure and a retrieval tool attachment releases the axial seal from the closure upon application of a predetermined release force by a retrieval tool.

8 Claims, 7 Drawing Sheets



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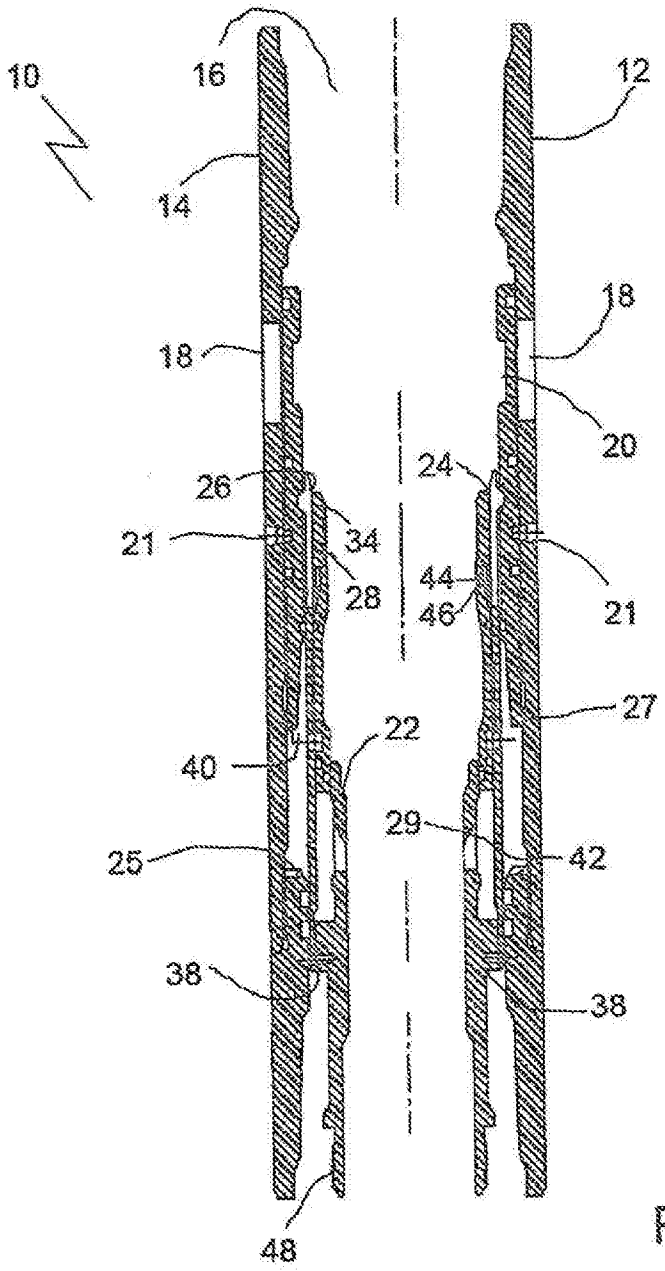

FIG. 1

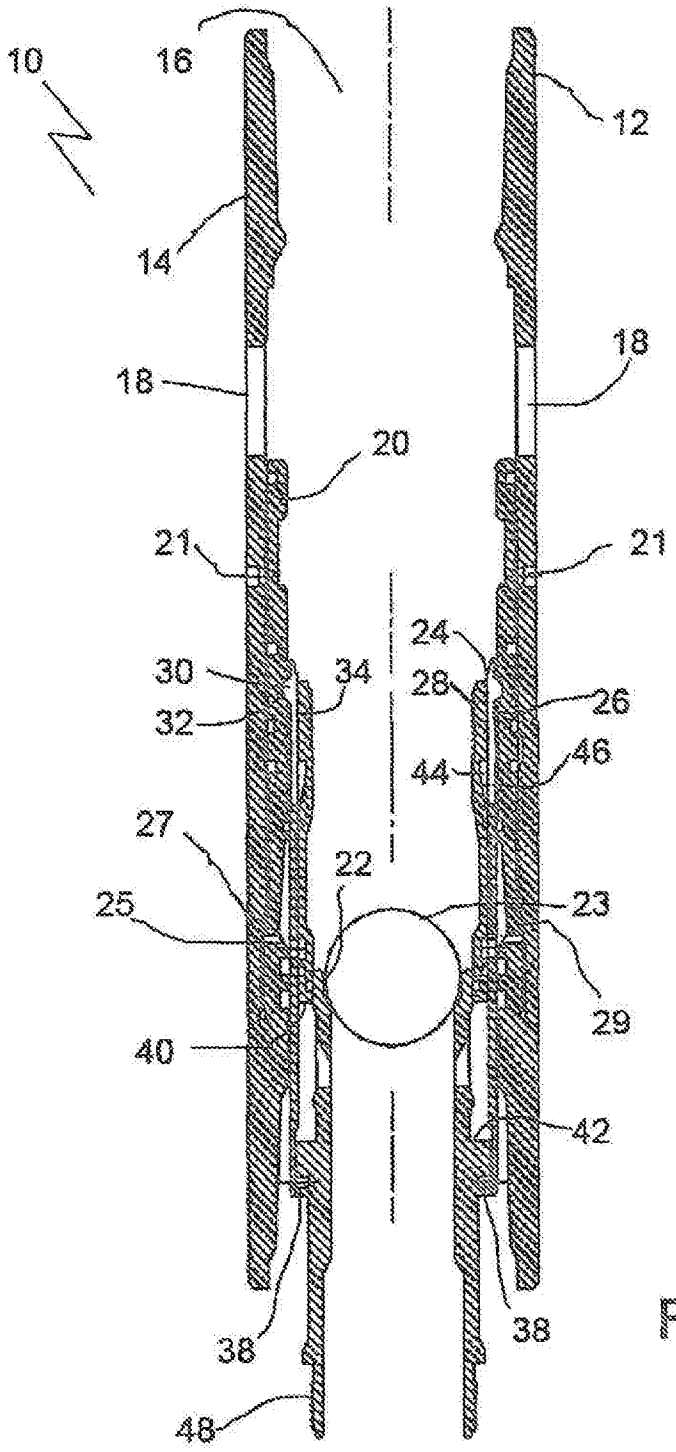
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FIG. 2

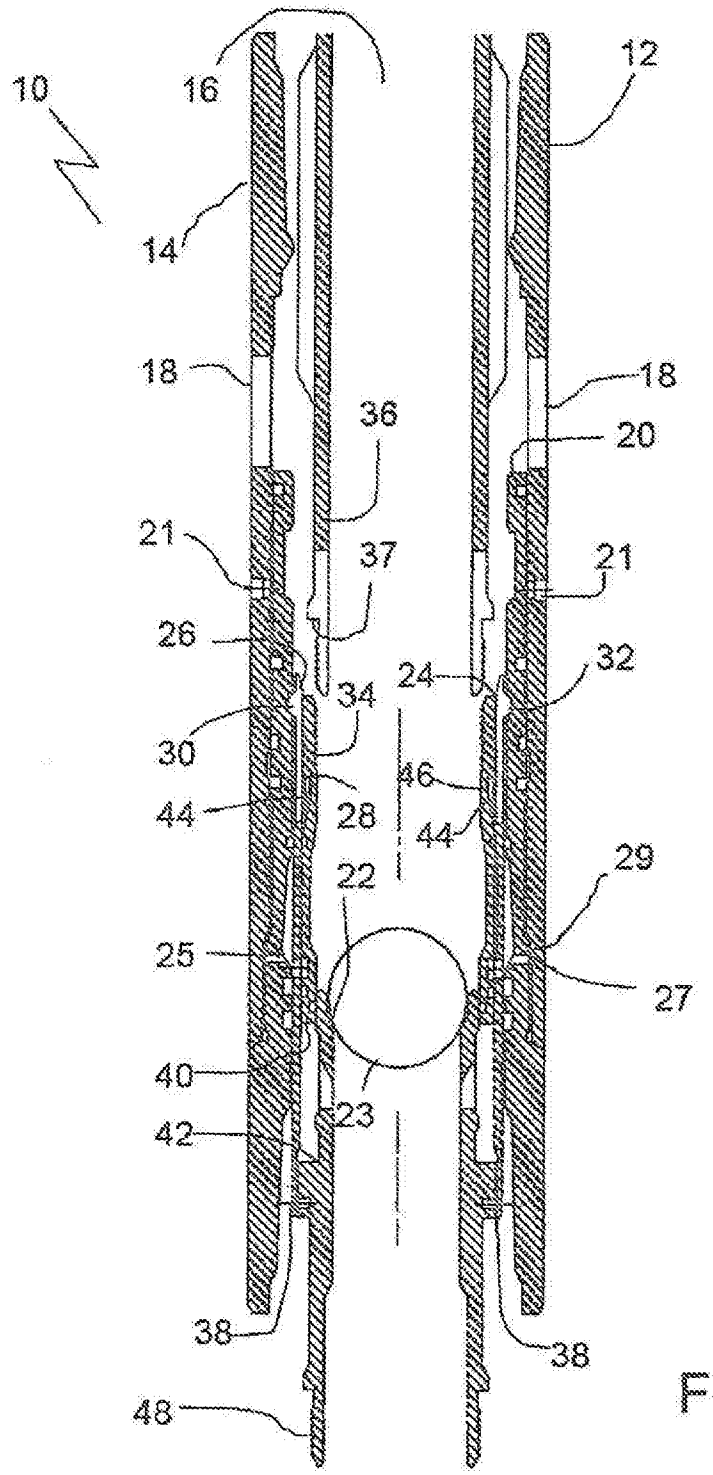
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FIG. 3

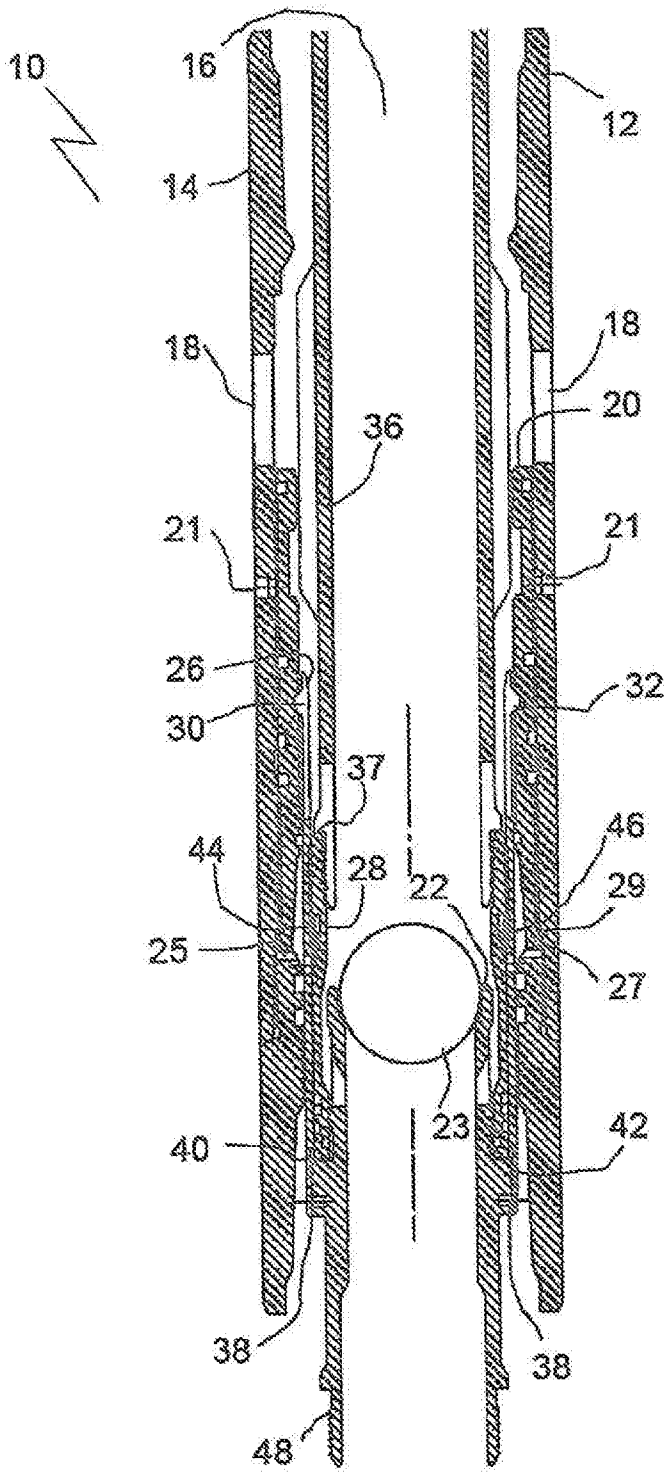
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FIG. 4

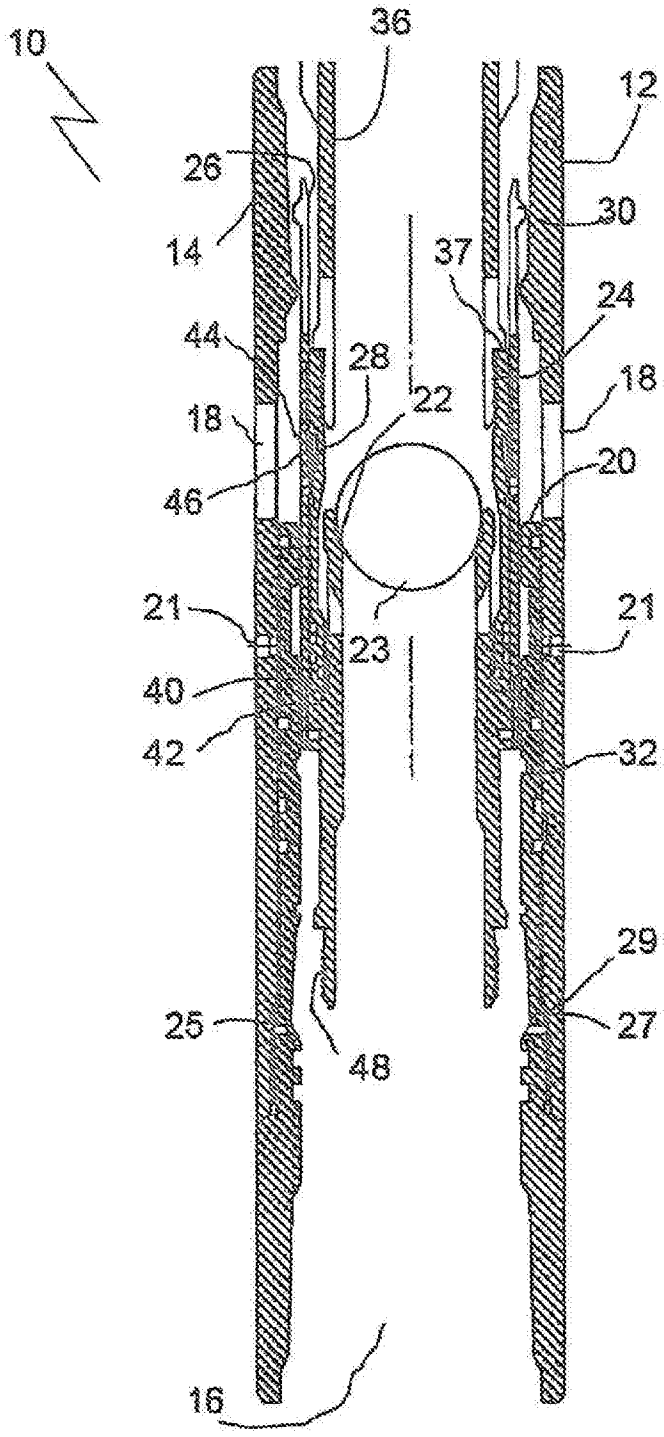
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FIG. 5

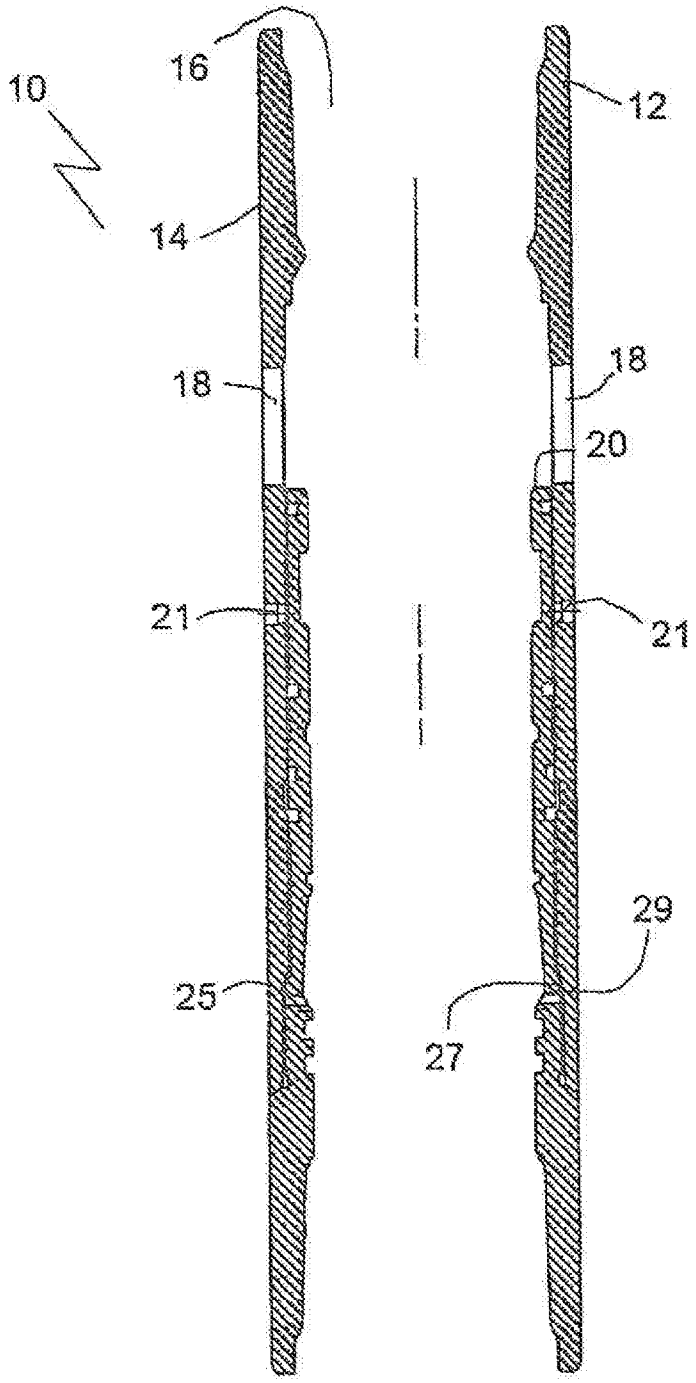

FIG. 6

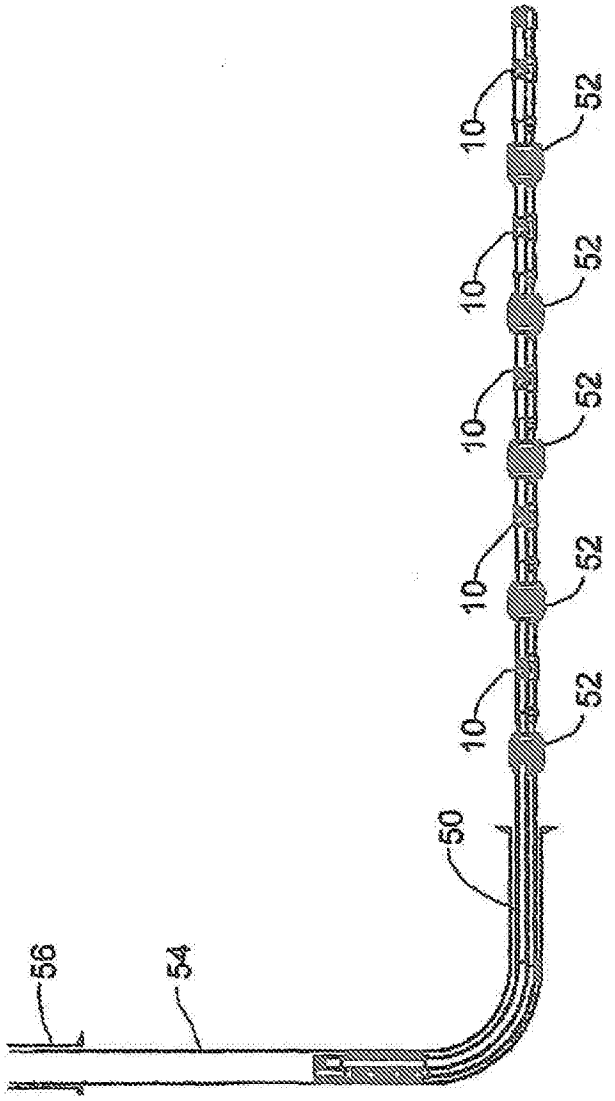

FIG. 7

SELECTIVE FRACTURING TOOL

This application is a continuation of U.S. application Ser. No. 13/266,498 entitled "Selective Fracturing Tool," filed Mar. 16, 2012, which is a national stage filing of PCT application serial number PCT/CA10/00620, filed Apr. 26, 2010, which claims the benefit of U.S. provisional application Ser. No. 61/172,915, filed Apr. 27, 2009.

FIELD

This relates to a tool for selectively fracturing a formation containing hydrocarbons.

BACKGROUND

U.S. Pat. No. 7,108,067 (Themig et al.) entitled "Method and apparatus for wellbore fluid treatment" describes a tool in which sleeves are shifted in order to open fracing ports.

SUMMARY

There is provided a tool for selectively treating a wellbore with fluid that includes a tubing string having a sidewall defining an inner bore, the sidewall comprising a flow area having at least one fluid flow port that permits fluid flow through the sidewall. A closure is movably positioned over the flow area and prevents fluid flow through the flow area in a closed position and allows fluid flow in an open position. An axial seal is connected to the closure to selectively close the inner bore against fluid pressure to apply the predetermined opening force to move the closure to the open position. A releasable connector connects the axial seal to the closure and a retrieval tool attachment releases the axial seal from the closure upon application of a predetermined release force by a retrieval tool.

BRIEF DESCRIPTION OF THE DRAWINGS

These and other features will become more apparent from the following description in which reference is made to the appended drawings, the drawings are for the purpose of illustration only and are not intended to be in any way limiting, wherein:

FIG. **1** is a side elevation view, in section, of the selective fracturing tool.

FIG. **2** is a side elevation view, in section, of the selective fracturing tool shown in FIG. **1** with flow ports in the open position.

FIG. **3** is a side elevation view, in section, of the selective fracturing tool shown in FIG. **1** with a removal tool inserted.

FIG. **4** is a side elevation view, in section, of the selective fracturing tool shown in FIG. **1** with the removal tool locked in position

FIG. **5** is a side elevation view, in section, of the selective fracturing tool shown in FIG. **1** with the removal tool removing the ball seat.

FIG. **6** is a side elevation view, in section, of the selective fracturing tool shown in FIG. **1** with full bore access.

FIG. **7** is a side elevation view of a tubing string containing a series of selective fracturing tools.

DETAILED DESCRIPTION

A selective fracturing tool, generally identified by reference numeral **10**, will now be described with reference to FIG. **1** through **7**.

Referring to FIG. **1**, tool **10** has a tubing string **12** having a sidewall **14**, an inner bore **16** and flow areas made up of one or more flow ports **18** that permit fluid flow through sidewall **14**. A closure **20** is positioned over flow ports **18**. As shown, closure **20** is an annular sleeve that shifts axially within sidewall **14**, and is connected to sidewall **14** by shear pins **21**. Closure **20** is initially in a closed position as shown in FIG. **1** to prevent fluid flow through flow ports **18**, and may be moved to an open position, shown in FIG. **2** and described below, to allow fluid to flow through flow ports **18**. As shown in FIG. **4**, tubing string **12** includes multiple flow areas **18** that are axially spaced, each having a closure **20** and the other components described below. An axial seal **22**, such as a ball seat as depicted, is connected to closure **20**. Axial seal **22** is initially in an open position, but may be closed to seal inner bore **16**, such as by placing a ball **23** in ball seat **22**, which allows pressure to be applied to closure **20** to move closure **20** to the open position. Axial seal **22** is attached to closure **20** via a releasable connector **24** that is released by a retrieval tool as discussed below. Referring to FIG. **2**, in the depicted embodiment, a ball **23** is pumped down tubing string **12** and engages ball seat **22**. Fluid pressure is then applied by increasing the hydrostatic pressure in inner bore **16**. This causes closure **20** to shear pins **21** and shift axially to open flow ports **18**. It will be understood that closure **20** may also open flow ports **18** by, for example, being rotated by the fluid pressure applied to ball seat **22**. In addition, other means of releasing closure **20** may also be used. In the open position, closure **20** is stopped by a shoulder **25** on sidewall **14**, and preferably has a latch end **27** that engages a latching profile **29** in sidewall **14** to prevent it from unintentionally returning to the closed position.

Preferably, when multiple closures **20** are selectively shifted, the diameter of downstream ball seats **22** are progressively smaller than the upstream ball seats **22**, such that a smaller ball may be pumped down through other, larger, ball seats **22** to the end of tubing string **12** to open that closure. The next ball will be larger to engage the next ball seat **22**, but still small enough to pass through the upstream ball seats **22**, and so forth so that all closures **20** are opened.

Referring to FIG. **3**, once opened, axial seal **22** can then be removed to provide "full bore" access to tubing string **12** by releasing releasable connector **24**. In the depicted embodiment, releasable connector **24** is made up of a diameter reducing sleeve **26** and a locking sleeve **28**. Sleeve **26** has an outer profile **30** that engages a corresponding profile **32** on closure **20**. As shown, profiles **30** and **32** are sloped on both sleeve **26** and closure **20**. This portion of sleeve **26** is a diameter reducing section. This may be done by providing a series of resilient fingers that, when an axial force is applied in either direction, bend inward to release sleeve **26** from closure **20**. Preferably, the fingers are biased inward, such that once they are released, they do not catch on closure **20**. The space between the resilient fingers may be filled with a compressible substance to properly seal sleeve **26**. Axial seal **22** is attached, such as by pins **27**, to the other end of diameter-reducing sleeve **26**. Sleeve **28** is a locking sleeve that prevents diameter reducing sleeve from being released from profile **32** on closure **20**. Locking sleeve **28** has a retrieval tool attachment **34** at one end that engages a retrieval tool **36**, and is connected by shear pins **38** to one of axial seal **22** or sleeve **26** at the other end.

Referring to FIG. **4**, as shown, retrieval tool **36** engages retrieval tool attachment **34** using a ratchet design that allows it to be inserted in one direction, and afterward locks in place. Retrieval tool **36** has a shoulder **37** to prevent it from being inserted too far into locking sleeve **28**. Shoulder **37** is then used to apply pushing forces to locking sleeve **28**. When

retrieval tool **36** applies a sufficient force to release shear pins **38**, locking sleeve **28** shifts downward and diameter reducing section is no longer locked in place. Locking sleeve **28** then becomes locked into this release position, as the downstream end **40** of locking sleeve **28** comes into contact with a shoulder **42** of axial seal **22**, and dogs **44**, which are mounted in a groove **46** locking sleeve **28** against a sloped outer surface, engage diameter reducing sleeve **26** by friction to prevent locking sleeve **28** from moving back to the locked position. This allows a pushing or pulling force to be applied by retrieval tool **36** at this point that will move axial seal **22** and sleeves **26** and **28** together to remove retrieval tool **36**.

Referring to FIG. **7**, a series of selective fracing tools **10** are deployed along a production tubing string **50** with packers **52**, such as hydraulically set dual element open hole packers. The type of packer used will be selected based on the conditions and preferences of the user. Tubing string **50** is inserted into the casing **54** of a wellbore **56**, such that tool **10** is aligned with the portion of the formation to be fraced.

When multiple fracing tools **10** are used as shown in FIG. **7**, each axial seal **22** may be removed individually to obtain the full bore flow path shown in FIG. **6**. In this approach, retrieval tool **36** is inserted once for each axial seal **22**. Alternatively, more than one axial seal **22** may be removed in multiples. As shown, in FIG. **4**, axial seal **22** has a downstream end **48** that has a similar connection as retrieval tool **36**. Once an upstream axial seal **22** is released, it may be pushed to engage the next downstream axial seal **22**, where downstream end **48** engages retrieval tool attachment **34** of the next axial seal **22**. At this point, axial seal **22** can be considered part of the retrieval tool **36**. The axial seals **22** can then be pulled out of tubular body **12** at the same time.

In this patent document, the word "comprising" is used in its non-limiting sense to mean that items following the word are included, but items not specifically mentioned are not excluded. A reference to an element by the indefinite article "a" does not exclude the possibility that more than one of the element is present, unless the context clearly requires that there be one and only one of the elements.

The following claims are to be understood to include what is specifically illustrated and described above, what is conceptually equivalent, and what can be obviously substituted. Those skilled in the art will appreciate that various adaptations and modifications of the described embodiments can be configured without departing from the scope of the claims. The illustrated embodiments have been set forth only as examples and should not be taken as limiting the invention. It is to be understood that, within the scope of the following claims, the invention may be practiced other than as specifically illustrated and described.

What is claimed is:

1. A tool for selectively treating a well with fluid, comprising:

tubing having a sidewall defining an inner bore;

a flow port defined through the sidewall for communicating fluid from the inner bore through the sidewall;

a first closure within the tubing shiftable between a closed position for blocking communication of fluids through the flow port, and an open position for permitting communication of fluid through the flow port;

a first axial seal for selectively closing the inner bore to block all fluid flowing through the tool in a downstream direction, the first axial seal being connected to the first closure for applying, when closed, a force to move the closure to the open position;

a first releasable connector for connecting the first axial seal to the first closure, and

a downstream end located on the first axial seal specially adapted for connecting to a second axial seal of a second closure downstream from the first axial seal.

2. The tool of claim **1**, wherein the second axial seal is connected with the second closure by a second releasable connector, wherein the downstream end of the first axial seal is configured for applying a force for releasing the second releasable connector once the first axial seal is released from the first closure and moved downstream for connection to the second axial seal.

3. The tool of claim **2**, further comprising a retrieval tool for lowering through the inner bore and applying a force for releasing the first axial seal from the first closure.

4. The tool of any of claim **1**, wherein the first and second axial seals are each comprised of a ball seat for receiving a pumped ball to close the inner bore.

5. The tool of claim **4**, wherein the ball seat for the first axial seal has a larger diameter than the ball seat of the second axial seal.

6. A method of selectively treating a well bore with fluid, comprising:

lowering into a well bore a tool, the tool comprising,

tubing having an inner bore for communicating fluid under pressure and at least first and second flow ports disposed along its length, the second flow port being downstream from the first flow port,

a first closure and a second closure for selectively opening, respectively, the first and second flow ports to the flow of fluid through the flow port independently of the other flow ports,

a first axial seal connected to the first closure by a first releasable connector and a second axial seal connected to the second closure by a second releasable connector, and

a downstream end for at least the first axial seal configured for connecting to the second axial seal;

inserting a retrieval tool into the tubing to release the first releasable connector and to connect to the axial seal of the first flow port;

moving the released axial seal of the first flow port toward the axial seal of the second flow port; and

releasing the second axial seal from the second closure of the second flow port with the downstream end of the axial seal of the first flow port.

7. The method of claim **6**, wherein the first and second axial seals are pushed toward the end of the well bore.

8. The method of claim **6**, wherein the first and second axial seals are pulled together with the retrieval tool through the tubing toward the surface of the well.

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