

## CLAIMS

1. A downhole tool configuration device, comprising:
  - an upper stem movable between an up position and a down position, wherein the
  - 5 upper stem comprises an extended portion;
  - an outer sleeve that is selectively coupleable to the upper stem at the up position and the down position, wherein the outer sleeve is coupled to a casing hanger through a threaded interface;
  - an inner sleeve that is selectively coupleable to the upper stem at the up position
  - 10 and the down position; and
  - a shuttle sleeve disposed within the inner sleeve, comprising:
    - a ball housing including a ball seat; and
    - one or more fluid output ports;
  - wherein:
  - 15 in the up position the upper stem is operable to transfer tension to the outer sleeve and torque to the inner sleeve; and
  - in the down position the upper stem is operable to transfer torque to the outer sleeve.
- 20 2. The tool configuration device of claim 1, wherein:
  - the outer sleeve comprises an upper outer sleeve portion coupled to a lower outer sleeve portion.
- 25 3. The tool configuration device of claim 1, further comprising:
  - a bearing disposed at the interface between the upper stem and the outer sleeve.
4. The tool configuration device of claim 3, wherein the bearing is selected from a group consisting of a hydrostatic fluid bearing, and a roller bearing.
- 30 5. The tool configuration device of claim 3 wherein:

in the up position, the bearing allows for rotational isolation of the upper stem and outer sleeve while facilitating the transfer of axial tension from the upper stem to the outer sleeve.

5           6.       The tool configuration device of claim 1, wherein in the up position, the upper stem is rotationally coupled to the inner sleeve with a dog connection.

7.       The tool configuration device of claim 1, wherein in the down position, the extended portion of the upper stem rotationally couples the upper stem to one or  
10   more slots of the outer sleeve.

8.       The tool configuration device of claim 1, further comprising:  
the inner sleeve disposed within the outer sleeve; and  
an adaptor sub coupled to a distal end of the inner sleeve using a threaded  
15   connection.

9.       The tool configuration device of claim 1, wherein:  
the shuttle sleeve is movable between a first position and a second position;  
wherein in the first position the shuttle sleeve is held in place by shear pins  
20   attached to the adaptor sub; and  
wherein in the second position the output ports of the shuttle sleeve are  
fluidically coupled to input ports disposed on the inner sleeve; and the input ports of the  
inner sleeve are fluidically coupled to one or more casing hanger ports.

25       10.      The tool configuration device of claim 1, further comprising:  
an inwardly biased ring disposed along a perimeter of the casing hanger; and  
a piston coupled to the inwardly biased ring.

11.      The tool configuration device of claim 10, wherein:

the inwardly biased ring further comprises at least one of a threaded portion and a grooved portion configured to engage a corresponding portion on an inner surface of a wellhead.

5           12.     A method of operating downhole tools in a wellbore comprising:  
directing a tool configuration device having an upper stem, an outer sleeve and  
an inner sleeve into the wellbore, wherein the tool configuration device further  
comprises a shuttle sleeve disposed within the inner sleeve, comprising:

                  a ball housing including a ball seat; and  
10               one or more fluid output ports;  
coupling the outer sleeve to a casing hanger;  
coupling the inner sleeve to an adaptor sub; and  
selectively operating the tool configuration device in a first mode of operation  
and a second mode of operation using the upper stem,  
15               wherein, the first mode of operation comprises selectively applying at least one  
of tension to the outer sleeve and torque to the inner sleeve, and  
                  wherein the second mode of operation comprises selectively applying torque to  
the outer sleeve.

20           13.     The method of claim 12, further comprising coupling the adaptor sub to a  
downhole tool.

                  14.     The method of claim 13, wherein operating the tool configuration device  
in the first mode comprises:

25               positioning the upper stem in a first axial position, wherein the upper stem is  
rotationally coupled to the inner sleeve and rotationally isolated from the outer sleeve  
when in the first axial position;

                  applying the torque to the downhole tool coupled to the adaptor sub by rotating  
the upper stem; and

30               applying the tension to the outer sleeve by axially moving the upper stem.

15. The method of claim 12, wherein operating the tool configuration device in the second mode comprises:

5 positioning the upper stem in a second axial position, wherein the upper stem is rotationally coupled to the outer sleeve and rotationally isolated from the inner sleeve when in the second axial position; and

applying the torque to the outer sleeve by rotating the upper stem.

16. The method of claim 12, further comprising:

10 dropping a ball to block a fluid flow path through the shuttle sleeve via landing on the ball seat;

pressurizing fluid uphole of the ball to a pre-set pressure, wherein one or more shear pins locking the shuttle sleeve in place disengage when the pre-set pressure is applied and the shuttle sleeve moves to a downhole position, wherein the one or more  
15 fluid output ports of the ball housing align with one or more input ports of the inner sleeve when the shuttle sleeve moves to the downhole position, and fluidically coupling the one or more output ports and the one or more input ports with one or more casing hanger ports.

20 17. The method of claim 16, further comprising applying a pressure to a piston using the fluid pressure from the one or more casing hanger ports until the pressure is high enough to overcome an inward bias of an inwardly biased ring, and pushing the inwardly biased ring into an engagement between the casing hanger and a wellhead.

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18. The method of claim 12, further comprising:

coupling the outer sleeve with the casing hanger using a threaded interface.