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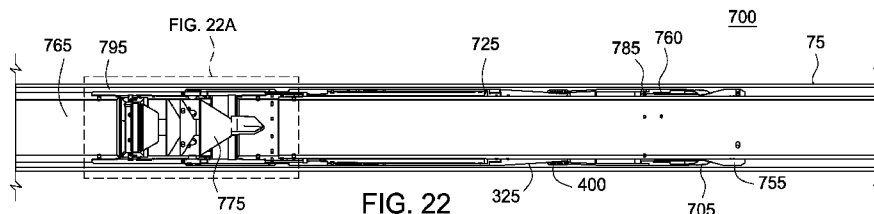
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(57) Abstract: The present invention generally relates to a stage tool. In one aspect, a downhole tool for use in a wellbore is provided. The tool includes a body having a bore. The tool further includes a seal assembly attached to the body. The seal assembly having an expandable annular member, a seal member and an expander sleeve, wherein the seal member includes one or more anti-extrusion spring bands embedded within the seal member. The tool further includes a slip assembly attached to the body. The slip assembly includes slips that are configured to engage the wellbore.



AMENDED CLAIMS

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1. A downhole tool for use in a wellbore, the tool comprising:
 - a body having a bore;
 - a seal assembly attached to the body, the seal assembly having an expandable annular member, a seal member and an expander sleeve, wherein the seal member includes one or more anti-extrusion bands embedded within the seal member; and
 - a slip assembly attached to the body, the slip assembly having slips that are configured to engage the wellbore.
2. The downhole tool of claim 1, wherein the seal member is disposed in a groove formed in the outer surface of the expandable annular member.
3. The downhole tool of claim 2, wherein the expander sleeve includes a tapered outer surface and an inner bore.
4. The downhole tool of claim 3 wherein the expander sleeve is movable between a first position in which the expander sleeve is disposed outside of the expandable annular member and a second position in which the expander sleeve is disposed inside of the expandable annular member.
5. The downhole tool of claim 4, wherein the expander sleeve is configured to radially expand the expandable annular member as the expander sleeve moves from the first position to the second position.
6. The downhole tool of claim 5, wherein a gap formed between a side of the seal member and a side of the groove, the gap being configured to close as the expander sleeve moves from the first position to the second position.
7. The downhole tool of claim 4, further comprising a sleeve member disposed in the bore of the body.

8. The downhole tool of claim 7, wherein the sleeve member is movable in the bore of the body between a first position in which a port in the body is blocked and a second position in which the port in body is unblocked.

9. The downhole tool of claim 8, wherein a fluid pathway is created between the bore of the body and an outside portion of the downhole tool when the sleeve member is in the second position.

10. A downhole tool for use in a wellbore, the tool comprising:
a body having a port formed in a wall of the body;
a sleeve member movable in a bore of the body between a first position in which the port in the body is blocked and a second position in which the port in the body is unblocked; and
a seal assembly attached to the body, the seal assembly having an expandable annular member and an expander sleeve, wherein a seal member is disposed in a groove formed in the expandable annular member and the seal member includes anti-extrusion bands embedded within the seal member.

11. The downhole tool of claim 10, wherein the expander sleeve is movable between a first position in which the expander sleeve is disposed outside of the expandable annular member and a second position in which the expander sleeve is disposed inside of the expandable annular member.

12. The downhole tool of claim 11, wherein the expandable annular member is expanded radially outward from the body when the expander sleeve moves from the first position to the second position.

13. The downhole tool of claim 12, wherein the expandable annular member includes an anchor portion on an outer surface, the anchor portion being configured to engage the wellbore when the expandable annular member is expanded radially outward.

14. The downhole tool of claim 11, further comprising a slip assembly attached to the body, the slip assembly having slips that are configured to engage the wellbore upon activation of the slip assembly.

15. The downhole tool of claim 11, wherein the seal member is configured to engage the wellbore when the expandable annular member is expanded radially outward.

16. A method of using a downhole tool in a wellbore, the method comprising:
positioning the downhole tool in the wellbore, the downhole tool having a body, an anchor portion, a seal assembly, and a sleeve member, wherein the seal assembly includes a seal member disposed in a groove formed in an expandable annular member and the seal member includes anti-extrusion bands;

expanding the anchor portion to anchor the downhole tool in the wellbore;

expanding the expandable annular member of the seal assembly to create a seal between the downhole tool and the wellbore; and

moving the sleeve member within a bore of the body to unblock a port in the body, and pumping fluid down the bore of the body and through the port in the body.

17. The method of claim 17, further comprising moving the sleeve member within the bore of the body to block the port in the body.

18. The method of claim 17, wherein the anchor portion is expanded and then the expandable annular member is expanded.

19. A downhole tool for use in a wellbore, the tool comprising:

a body;

a slip assembly attached to the body, the slip assembly having slips that expand radially outward as the slips move along a ramped surface upon application of a first axial force, and

a seal assembly attached to the body, the seal assembly having an expandable annular member, a seal member and an expander sleeve, wherein the expandable annular member expands radially outward as the expander sleeve moves

inside of the expandable annular member upon application of a second axial force, and wherein the first axial force is applied through the seal assembly.

20. The downhole tool of claim 19, wherein the seal member is disposed in a groove formed in the expandable annular member.

21. The downhole tool of claim 20, wherein a gap is formed between a side of the seal member and a side of the groove, the gap being configured to close when the expandable annular member expands radially outward.

22. The downhole tool of claim 19, further comprising a shearable member disposed between the expandable annular member and the expander sleeve, the shearable member being configured to break upon application of the second axial force.

23. A method of using a downhole tool in a wellbore, the method comprising:
positioning the downhole tool in the wellbore, the downhole tool having an anchor portion and a seal assembly disposed around a body,
expanding the anchor portion to anchor the downhole tool in the wellbore by applying a first axial force to the anchor portion of the downhole tool, the first axial force being applied through the seal assembly; and
expanding the seal assembly to create a seal between the downhole tool and the wellbore by applying a second axial force to the seal assembly of the downhole tool.

24. The method of claim 23, wherein the second axial force is greater than the first axial force.

25. The method of claim 23, wherein the anchor portion is expanded and then the seal assembly is expanded.