wall and removes well fluids and solids that adhere to the inside of the wellbore. Typically, wipers have one or more cup-type elements that prevent flow. Examples of wipers are illustrated in U.S. patent numbers 6,347,667 and 6,883,605 and U.S. Publication # 2009/0126933. "Casing centralizer" refers to the device secured around a tubing string or tool, typically at regular intervals, to center it in the wellbore. A "gauge ring" is a ring assembled in a tubing string or tool used to measure, guide and centralize it in the wellbore.

SUMMARY OF THE INVENTION

[0004] Embodiments of t~~T~~he present invention seek to provides a tool for assembly in a tubing string for use in cleaning the wellbore and well fluids. The tool preferably contains wiper elements for removing debris from the wellbore wall and or sealing the annulus around the tool. Valves and passageways are provided in the tool ~~tool~~ to accommodate both forward and reverse circulation to flush the debris from the wellbore.

[0004a] According to a first aspect of the present invention, there is provided a debris removing apparatus for connection to a tubing string that is moved at the surface into a walled subterranean wellbore, comprising: an elongated tubular shaped body having a first passageway extending through the body from one end to the other; means on one end of the body for connection to a tubing string whereby the first passageway in the body is in fluid communication with the tubing string; a sealing element mounted on the exterior of the body; a second passageway in the body communicating with the exterior of said body, the second passageway bypassing the sealing element; a valve connected to the second passageway, the valve having a valve element, a valve seat, and an actuator element resiliently urging the valve against the valve seat, and the valve element being moveable between a first position blocking flow through the second passageway when the apparatus is moved in the wellbore and a second position for permitting forward and reverse fluid circulation through the second passageway to bypass the sealing element.

[0004b] According to a second aspect of the present invention, there is provided a method of removing debris from a walled wellbore by inserting a tubing string into the wellbore from the wellhead comprising the steps of: assembling a tubular body in a tubing string so that a first passageway in the body is in fluid communication with a tubing string, mounting a sealing element on the exterior of the body, providing a second passageway in the body bypassing the sealing element and providing a valve connected to the passageway to selectively permit and prevent flow through the passageway; placing the tubing string and body into the wellbore thereby forming an annulus between the body and the wellbore wall; moving the body axially along the wellbore while utilizing the sealing element to restrict the axial flow of fluids in the annulus past the body; adding fluids to the wellbore annulus while moving the body and simultaneously removing fluids from the wellbore by flowing fluids through the first passageway in the body and through the tubing string; and thereafter holding the body relatively stationary in the wellbore while adding fluids to the wellbore annulus and simultaneously flowing fluids downhole through the second passageway in the body to bypass the sealing element, preventing flow of fluids uphole through the second passageway using the valve, and then flowing fluids out of the wellbore through the tubing string.

BRIEF DESCRIPTION OF THE DRAWING

[0005] The drawing is incorporated into and forms a part of the specification to illustrate at least one embodiment and example of the present invention. Together with the written description, the drawing serves to explain the principals of the invention. The drawing is only for the purpose of illustrating at least one preferred example of at least one embodiment of the invention and is not to be construed as limiting the invention to only the illustrated and described example or examples. The various advantages and features of the various embodiments of the present invention will be apparent from a consideration of the drawing in which:

[0006] **Fig. 1** is a partial section view of the wellbore cleanout tool of the present invention;

[0007] **Fig. 2** is a more detailed section view of a portion of the cleanout tool of the present invention, in the first position;

[0008] **Fig. 3** is a more detailed section view of a portion of the cleanout tool of the present invention, in the second position;

[0009] **Fig. 3A** is a detailed view of check valve plunger of the present invention, showing resilient sealing face thereon;