



Downhole Tools and Methods for Selectively Accessing a Tubular Annulus of a Wellbore

William W. Fleckenstein

Summary: A downhole tool that selectively opens and closes an axial/lateral bore of a tubular string positioned in a wellbore

Description: This invention is of a downhole tool that selectively opens and closes an axial/lateral bore of a tubular string positioned in a wellbore that is used to produce hydrocarbons or other fluids. When integrated into a tubular string, the downhole tool allows individual producing zones within a wellbore to be isolated between stimulation stages while simultaneously allowing a selected formation to be accessed. The downhole tools and methods can be used in vertical or directional wells, and additionally in cased or open-hole wellbores.

Main Advantages of this Invention:

- Lower cost
- Simplistic design compared to current technologies
- Maintains a large wellbore
- Allows for a higher number of fracture stages per well

Potential Areas of Application:

- Oil and Gas

ID number: 10015

Intellectual Property Status: US 8,991,505

Opportunity: We are seeking an exclusive or non-exclusive licensee for marketing, manufacturing, and sale of this technology.

For more information contact:

William Vaughan, Director of Technology Transfer
Colorado School of Mines, 1500 Illinois Street, Guggenheim Hall Suite 314, Golden, CO 80401
Phone: 303-384-2555; e-mail: wvaughan@mines.edu