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(54) Title: SWELLABLE PACKER ASSEMBLIES, DOWNHOLE PACKER SYSTEMS, AND METHODS TO SEAL A WELL-BORE

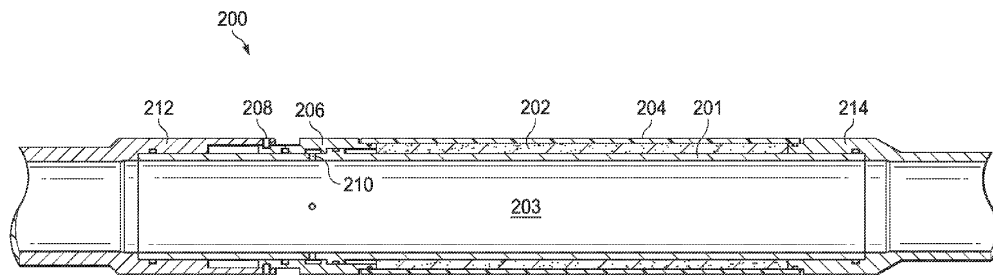


FIG. 2

(57) Abstract: Swellable packer assemblies, downhole packer systems, and methods to seal a wellbore are presented. A swellable packer assembly includes a mandrel and a sealing material disposed about a portion of the mandrel, where the sealing material is formed from a material that radially expands from the mandrel in response to fluid exposure. The swellable packer assembly also includes a cover that is initially disposed about a portion of an outer surface of the sealing material, where the cover prevents the sealing material from being exposed to fluid while the cover is positioned about the portion of the outer surface of the sealing material, and a pressure-actuated piston configured to shift from a first position about the mandrel to a second position about the mandrel, where the sealing material is exposed to fluid after the pressure-actuated piston shifts from the first position towards the second position.

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