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(54) Title: DIRECTIONAL DRILLING SYSTEM

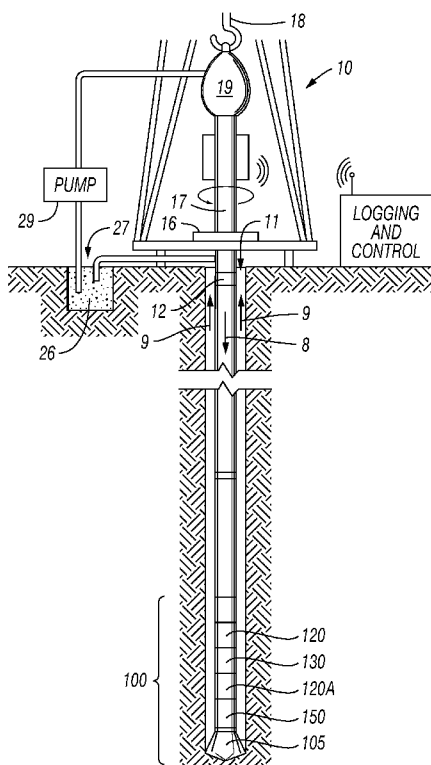


FIG. 1

(57) Abstract: A technique facilitates drilling of wellbores or other types of bore holes in a variety of applications. A steerable system or other well tool is designed with a plurality of actuators which are positioned to provide controlled steering during a drilling operation. Each actuator includes at least one loose element or ball slidably mounted in a corresponding sleeve. Pressurized fluid is used to provide controlled movement of the elements along the corresponding sleeves of the actuators. The controlled movement of the elements assists in the provision of steering or other control over the well tool during the drilling operation.



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