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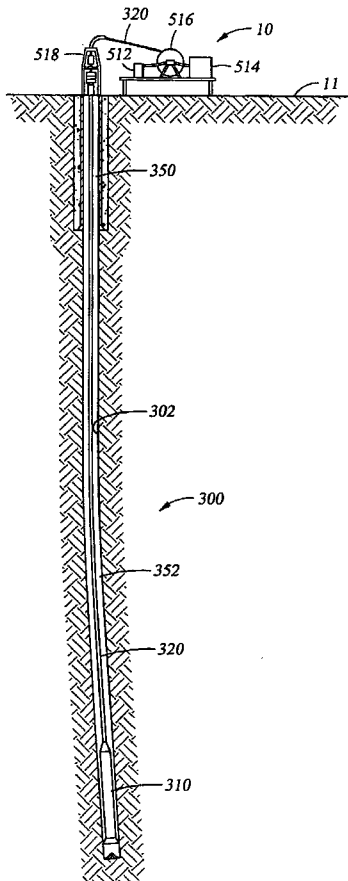
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(54) Title: WELL SYSTEM



(57) Abstract: The drilling system includes a work string (20) supporting a bottom hole assembly (310). The work string including lengths of pipe having a non-metallic portion. The work string includes a composite coiled tubing (320) having a fluid impermeable liner (32), multiple load carrying layers (38) and a wear layer (36). Multiple electrical conductors and data transmission conductors (42) are embedded in the load carrying layers for carrying current or transmitting data between the bottom hole assembly and surface. The bottom hole assembly (30) includes a bit, a gamma ray and inclinometer instrument package (130), a steerable assembly (124), an electronics section (110), a transmission (100) and a power section (90) for rotating the bit (140). It may or may not include a propulsion system. The drilling system may be a gravity based drilling system without a propulsion system. Various motive means (404) may be provided, such as gravity, to apply weight on the bit.

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