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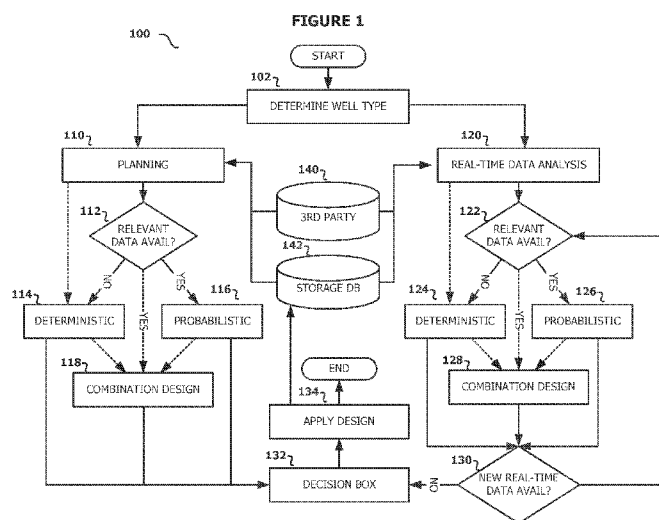
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(54) Title: METHOD AND ANALYSIS FOR HOLISTIC CASING DESIGN FOR PLANNING AND REAL-TIME



(57) **Abstract:** The disclosed embodiments include a method, apparatus, and computer program product for determining a suitable casing design for a well. For example, one disclosed embodiment includes a system that includes at least one processor and at least one memory coupled to the at least one processor and storing instructions that when executed by the at least one processor performs operations for receiving historical data associated with previously drilled wells; in response to a determination that the historical data associated with previously drilled well is relevant to the well, generating a first set of casing designs using a probabilistic approach and generating a second set of casing designs using a combination approach that combines the probabilistic approach with a deterministic approach; and selecting a suitable casing design from a resulting set of casing designs.