

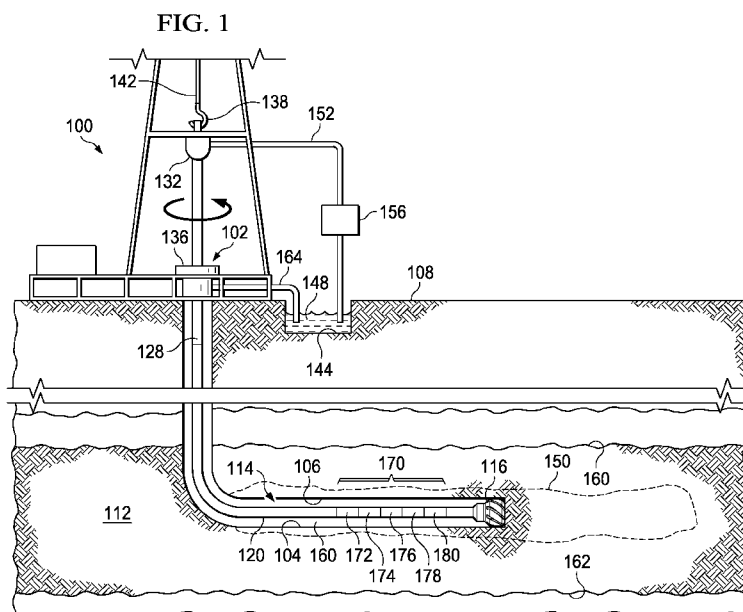


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(54) Title: PROBABILISTIC METHODOLOGY FOR REAL TIME DRILLING



(57) Abstract: The disclosed embodiments include a method, apparatus, and computer program product configured to provide a probabilistic approach for real time drilling. In particular, the disclosed embodiments are configured to obtain real-time data gathered during the drilling operation to update a probability model of a formation that is used in determining whether to alter a direction of a drill path. The disclosed embodiments may be configured to provide a notification to a user indicating or suggesting that certain adjustments be made to the drill path based on the updated probability model. Additionally, the disclosed embodiments may be configured to automatically make the adjustments to the drill path based on the updated probability model.