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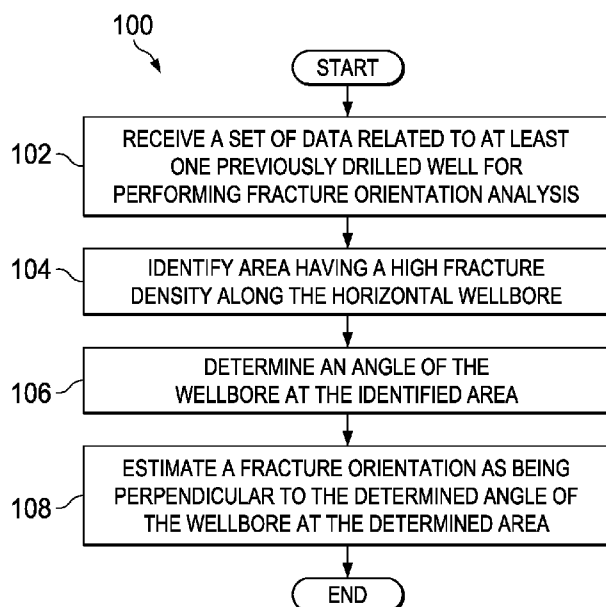


FIG. 1

(57) **Abstract:** The disclosed embodiments include a method, apparatus, and computer program product for improving well production using a regression relationship approach. 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 analyzing a first set of data from at least one previously drilled well to predict fracture orientation for determining a drilling angle to optimize drilling of a new well by increasing fracture density along the new wellbore.