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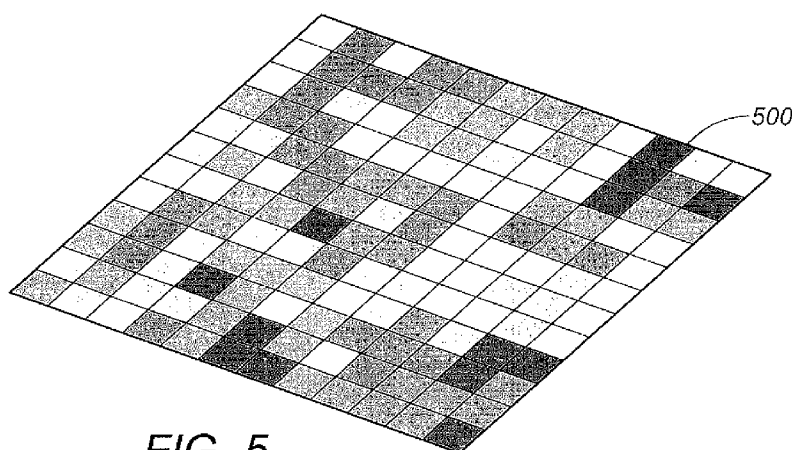


FIG. 5

Relative Shale Quality Key					
<p10	<p30	<p50	<p70	<p90	>p90

(57) Abstract: Systems and methods for identifying geological core areas by using one or more rock property metrics to construct a cumulative probability distribution and variance of the rock property metrics that may be used for ranking and identifying the geological core areas.