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(56) Documents Cited:
US 20130201794 A1
US5839090A
JOSEPH K BERRY CONTOUR LINES VERSUS COLOR
GHAILI S GEOMETRY FREE POLYGON SPLITTING

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INT CL **G01V, G06F**
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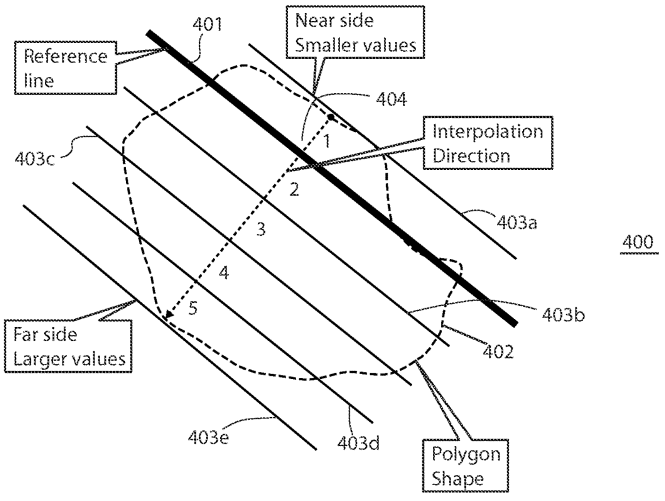
(54) Title of the Invention: **Method and system for gradiational seismic volume classification**
Abstract Title: **Method and system for gradiational seismic volume classification**

(57) Embodiments of the invention provide a method for classifying seismic attributes, including generating data points by cross plotting seismic attributes from a first data volume and a second data volume, encompassing at least one of the generated data points within a polygon, generating a reference line, determining an interpolation direction relative to the reference line, and assigning an attribute value to the at least one generated data point encompassed within the polygon wherein the assigned attribute value is interpolated based on the combination of its position to the reference line along the interpolation direction and the shape of the polygon.

FIG.4



This International application has entered the National phase early.

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