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(54) **TECHNIQUES FOR DRAWING GEODETIC POLYGONS**

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G06T 15/10 (2011.01)
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(52) **U.S. Cl.** **345/427**; 345/419

(58) **Field of Classification Search** ..... None
See application file for complete search history.

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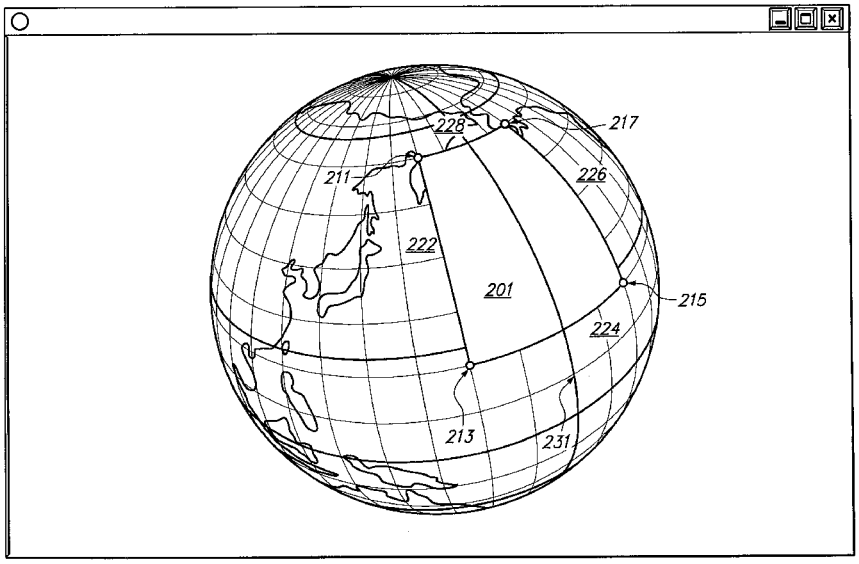
(57) **ABSTRACT**

Techniques in a data processor for drawing on a map a geodetic polygon that straddles a splitting meridian include, in one embodiment, maintaining data that represents the geodetic polygon, the data comprising a set of geographic coordinates; transforming the set of geographic coordinates into a set of planar coordinates representing a planar polygon; splitting the planar polygon into a plurality of sub-figures; shifting at least one sub-figure of the plurality of sub-figures along a horizontal axis of two-dimensional plane to produce a shifted sub-figure; and causing the shifted sub-figure to be displayed on a map concurrently with at least one other sub-figure of the plurality of sub-figures that was not shifted.

27 Claims, 12 Drawing Sheets