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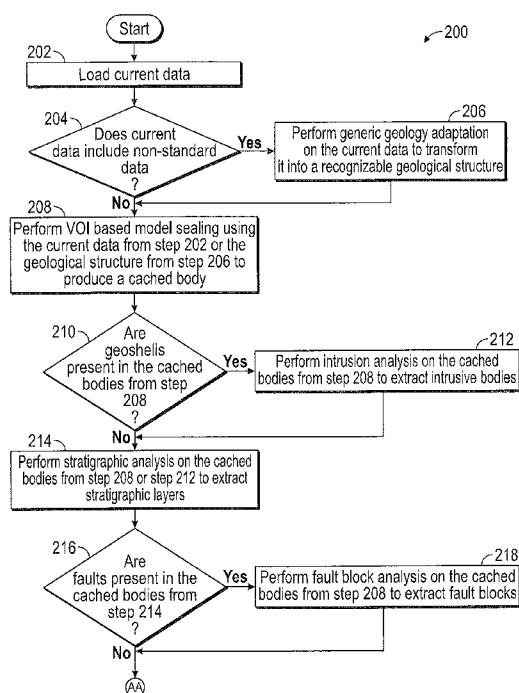
(54) **Title:** DYNAMICALLY UPDATING COMPARTMENTS REPRESENTING ONE OR MORE GEOLOGICAL STRUCTURES

FIG. 2A

(57) **Abstract:** Systems and methods for dynamically updating compartments representing one or more geological structures by performing one or more dynamic interactions on i) current data; ii) a predefined polygon area-of-interest and/or predefined minimum/maximum depths from volume-of-interest based model sealing; and/or iii) a fluid contact flag and/or a sealing state from a fluid fill analysis.

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