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(54) Title: Computer-Aided Planning Of Liver Surgery

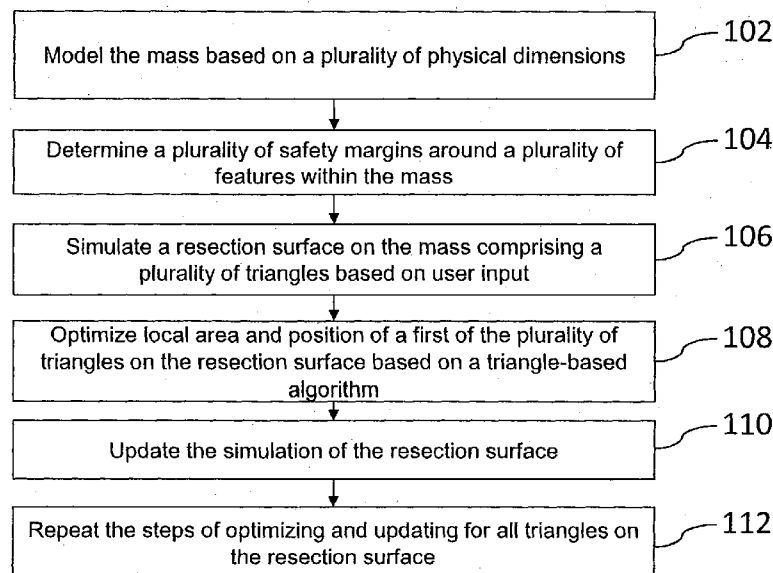


FIG. 1
100

(57) Abstract: A method for surgical resection planning of a mass is disclosed, the method comprises the steps of, modelling the mass based on a plurality of physical dimensions, determining a plurality of safety margins around a plurality of features within the mass, simulating a resection surface on the mass comprising a plurality of triangles, optimizing local area and position of a first of the plurality of triangles on the resection surface based on a triangle-based algorithm, updating the simulation of the resection surface, and repeating the steps of optimizing and updating for each of the plurality of triangles on the resection surface.



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