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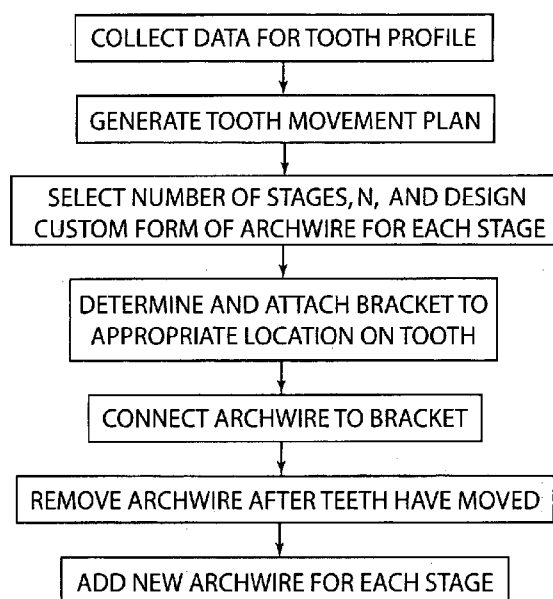
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(54) Title: METHOD FOR DESIGN OF CUSTOM COMPOSITE ORTHODONTIC WIRES AND IMPLEMENTATION THERE-OF

FIG. 1



(57) Abstract: A method for design of a series of custom composite orthodontic wires comprises collecting data about an initial teeth configuration of a patient and generating a tooth movement plan. The tooth movement plan comprises determining both a bracket mounting location for each bracket on a corresponding tooth and a number of stages, including an initial stage, determining movement of teeth from the initial teeth configuration to a final teeth configuration, and determining the custom composite orthodontic wire for each stage of the number of stages. The custom composite orthodontic wire used at the initial stage has at least one multidimensional bend. The custom composite orthodontic appliance for moving teeth is implemented by attaching brackets at the bracket mounting location for each bracket on a corresponding tooth, and connecting the brackets with the custom composite archwire.