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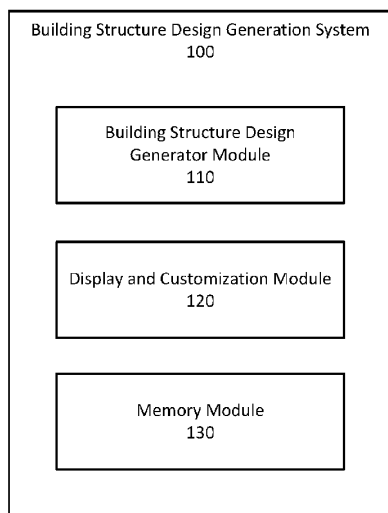
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(54) Title: SYSTEM AND METHOD FOR AUTOMATICALLY GENERATING AN OPTIMIZED BUILDING STRUCTURE DESIGN

FIGURE 1



(57) Abstract: The present approach automatically generates an optimized building structure design given a set of building design parameters including a specified interior layout. The generated building structure design determines floor plate sizing, beam sizing, column sizing, any needed lateral system, and connectors between the determined building element, which are then displayed to the building structure designer for review and which facilitates customization as desired by the building structure designer. Some or all of this process can then be repeated when building design parameters are changed thereby facilitating automated and iterative building structure design as differing design parameters and resulting optimized building structure designs are considered.

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