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(54) Title: GRAPHIC DESIGN SYSTEM UTILIZING VARIABLE DATA STRUCTURES FOR PERFORMING SIMULATIONS
WHERE ATTRIBUTES OF STATEFUL DESIGN ELEMENTS ARE DYNAMICALLY DETERMINED

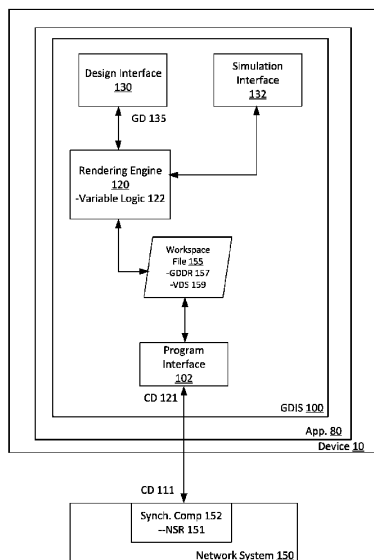


FIG. 1

(57) Abstract: A computer system is operable to associate each of a first and second layer of a graphic design with a variable data structure. The first layer includes a component that is associated with multiple instances that collectively define multiple states that are associated with the component. The computer system can perform a simulation of the graphic design being deployed in a production environment by (i) setting an active value for the variable data structure based on an attribute of one of the multiple instances of the component; and (ii) automatically configuring an attribute of the object of the second layer based on the active value of the variable data structure.

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