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(54) **Title:** MANAGING AN ENERGY STORAGE SYSTEM

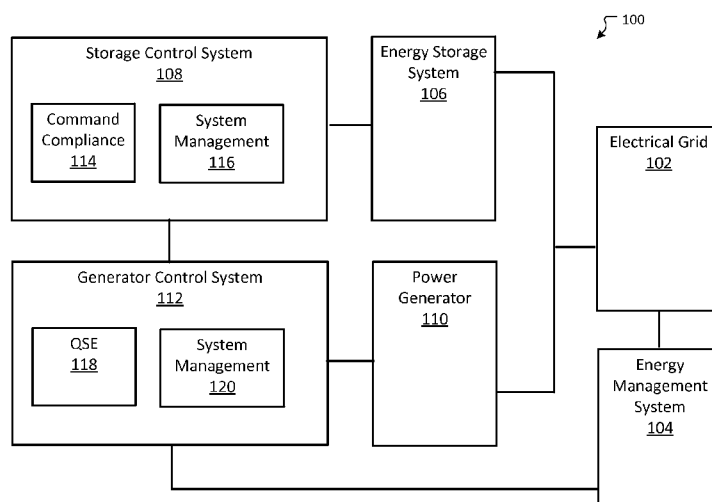


FIG. 1

(57) **Abstract:** A system includes an energy storage system configured to supply energy to an electrical grid and a control system coupled to an energy management system of the electrical grid and configured to control the energy storage system. The control system receives one or more commands from the energy management system, and in response, executes a command compliance routine to charge or discharge energy from the energy storage system to the electric grid in accordance with the one or more commands. The control system also receives one or more system condition values from the energy storage system and one or more market condition values for the electric grid and executes a management routine to charge or discharge energy from the energy storage system to the electric grid based on the system condition values and the market condition values.