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(54) Title: SYSTEM AND METHOD FOR OPTIMISED CHARGING OF ELECTRIC VEHICLES

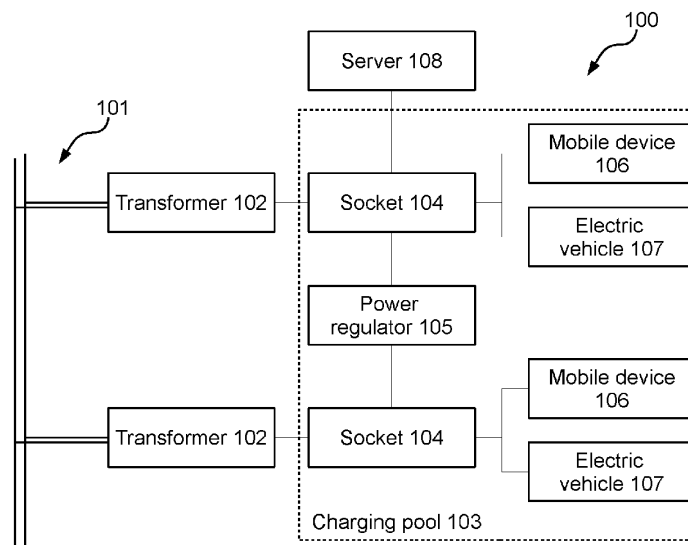


Figure 1

(57) Abstract: A system for charging electric vehicles from a limited power supply is disclosed. The system includes a plurality of electrical sockets connected to the power supply, each socket comprising a processor, a data interface for communication with a mobile device, and a power switch that controls the connection between the power supply and the socket terminals. The system is configured to communicate with mobile devices to assign sockets to a pool of electric vehicles for charging. Additionally, the system individually controls the sockets to supply power, ensuring that only a subset of the sockets is active at any given time, thereby managing the power distribution in accordance with the limitations of the power supply.

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