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(54) **Title**: AUTOMATED STORAGE SYSTEM AND TRANSPORT VEHICLE

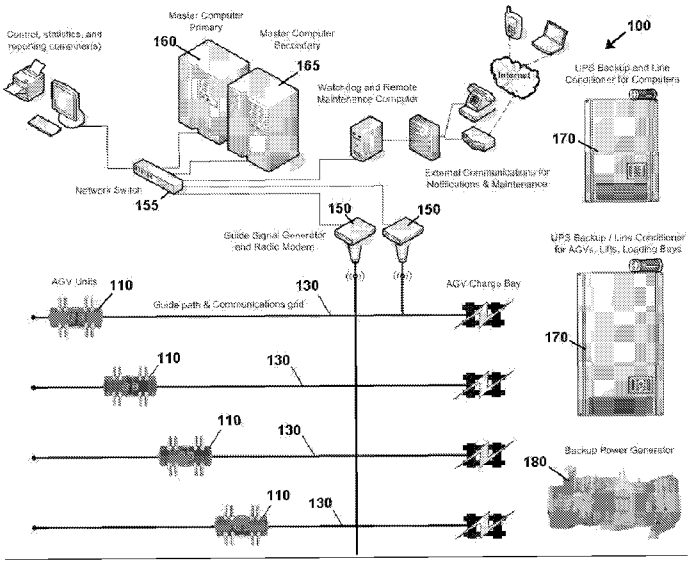

FIG. 1

(57) **Abstract**: An automated storage system for vehicles or the like is provided with a guidance system that interacts with a remote-controlled transport system that transports a vehicle between an access location, such a drive -up location, and a storage location. More particularly, in one embodiment, an omni-directional, battery-powered, wirelessly- controlled, transport system or so-called automated guided vehicle ("AGV") is designed to follow magnetic field generating wires and RFID chips on the floors of the parking facility to move forward, backward and side to side underneath cars that are parked on a flat surface. In one embodiment, the AGV automatically contracts and expands its body to slide its arms under the wheelbase of a car, lift the car, and roll with speed and precision in any direction on to a waiting lift, that will then raise and lower the AGV and its automobile payload toward its ultimate destination.

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