ABSTRACT

THERMAL MANAGEMENT SYSTEM AND METHOD, COMPUTER DEVICE, VEHICLE, AND STORAGE MEDIUM

A thermal management system, at least comprising a heating circuit, a refrigerant circuit, a battery circuit, a first three-way valve (34), and a water-cooled condenser (3). The refrigerant circuit comprises an electric compressor (l); the heating circuit and the refrigerant circuit are connected to each other by means of the water-cooled condenser (3); the water-cooled condenser (3) is used for transferring from the refrigerant circuit to the heating circuit the heat of a high-temperature refrigerant dissipated by the electric compressor (l); with regard to the first three-way valve (34), a first port is connected to the heating circuit, a second port is connected to a heating device (33) of a passenger compartment, and a third port is connected to the battery circuit, so that the connection relationship among the heating circuit, the heating device, and the battery circuit is adjusted. The first three-way valve enables the heating circuit to use water that has been subjected to heat exchange to selectively heat the passenger compartment and a battery, such that in a pure electric mode, a vehicle can use the refrigerant circuit, rather than an engine and a water heater, to heat the passenger compartment and the battery, thereby saving energy consumption. Also provided are a thermal management method, a computer device, a vehicle, and a computer-readable storage medium.

Figure 1