A TEMPERATURE CONTROL SYSTEM

Abstract

A fuel cell is an electrochemical device that enables generation of electricity or power through oxidation of a fuel, which is also known as a reactant. A typical fuel cell has relatively high power generation efficiency. However, waste heat is still generated from a portion of the energy. The heat must be discharged efficiently from the fuel cell to protect high molecular electrolyte films, which are located in the fuel cell. A temperature control system is described according to an embodiment of the invention. The endothermic fuel discharge property of the fuel storage system is harnessed for conditioning the temperature of air being directed at the fuel cell to thereby condition the temperature of the operating temperature of the fuel cell.

Figure 1

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