

ABSTRACT

HYDROGEN GENERATOR WITH A HYDROGEN LEAK CONSCIOUS FUNCTION

A hydrogen generator with hydrogen leakage self-aware function comprises an electrolytic module, an integrated passageway device, a condensate filter, a humidification cup, a housing, an internal hydrogen sensing component, and a monitoring device. The electrolytic module is configured to electrolyze an electrolyzed water to generate a gas comprising hydrogen. The integrated passageway device comprises gas inlet passageway and a gas outlet passageway. The condensate filter is configured for filtering the gas comprising hydrogen. The humidification cup is configured for humidifying the gas comprising hydrogen. The gas comprising hydrogen flows through the condensate filter and the humidification cup by the way of the integrated passageway device. The internal hydrogen sensing component is configured in the housing for sensing the hydrogen concentration in the housing to generate an internal sensing result. The monitoring device is coupled to the internal hydrogen sensing component. The monitoring device controls the operation of the hydrogen generator according to the internal sensing result to avoid the hydrogen generator from the problem caused by hydrogen.

Figure 4