

Abstract

ENERGY SAVING APPARATUS FOR PRODUCING OXYHYDROGEN COMBUSTION SUPPORTING GAS AND METHOD USING THE SAME

The invention discloses an energy-saving apparatus for producing oxyhydrogen combustion-supporting gas and a method thereof. The device is characterized in that: an electrolytic cell of the device comprises a plurality of negative electrode plates, positive electrode plates and neutral electrode plates; the different electrode plates do not mutually contact and are adjacently or alternately arranged to form an electrolytic electrode plate, and the two electrode plates positioned at the outermost of the electrolytic electrode plate are neutral electrode plates; and an electronic drive unit in the device is an adjustable pulse-width modulator, the input end of the modulator is connected with a direct-current power supply, and the output end of the modulator is respectively connected with the negative electrode plates and the positive electrode plates of the electrolytic cell. The method for producing the oxyhydrogen combustion-supporting gas by using the apparatus comprises the following steps: (1) supplying power to the adjustable pulse-width modulator; (2) adjusting the frequency and the load/dwell rate of the adjustable pulse-width modulator to cause the electrolytic cell to electrolyze out oxyhydrogen gas; and (3) outputting the oxyhydrogen gas without storage. The energy saving apparatus is safe and convenient to be installed. It can efficiently produce the oxyhydrogen gas, thus it can considerably and definitely improve the performance of an internal combustion engine or an engine, and hence it can save fuel and reduce the discharge of toxic waste gas.

[Fig. 1]