

ABSTRACT

HYDROGEN GENERATOR WITH DETACHABLE FILTER

A hydrogen generator with detachable filter comprises a water tank, an electrolysis module configured in the water tank, a filter channel device coupled to the water tank, a humidifying module, vertically configured above the water tank, an integrated channel device vertically configured above the humidifying module, and a condenser configured on the integrated channel device. The electrolysis module is configured to electrolyze water contained in the water tank to generate gas comprising hydrogen. The humidifying module includes a humidifying chamber and a gas channel isolated from the humidifying chamber. The filtering device is arranged in the gas channel to receive and filter the gas comprising hydrogen generated by the electrolysis module. The condenser is configured to condense the gas comprising hydrogen outputted by the filtering device. The integrated channel device includes a gas input channel for guiding the gas comprising hydrogen outputted from the condenser into the humidifying chamber.

FIG. 1