

ABSTRACT OF THE DISCLOSURE

A metal-air fuel battery system with follow-up adjustment of a large-sized anode is provided, which relates to a technical field of a battery. The battery system includes a flexible case, a follow-up adjustment module and a drive mechanism, where the flexible case, as an electrochemical reaction space, is configured to accommodate an electrolyte solution and a metal ingot therein, and have a flexible air electrode embedded in an inner wall thereof; the follow-up adjustment module is configured to change a shape of the flexible case according to a size change of the metal ingot, to reduce the electrochemical reaction space; and the drive mechanism is configured to control action of the follow-up adjustment module. A real-time adjustment of a size can be achieved by a follow-up adjustment mechanism according to a size change of an ingot during a reaction process, so as to ensure the sustainability and stability of an electrochemical reaction, thereby improving performance reliability of the metal-air fuel battery.

ABSTRACT DRAWING

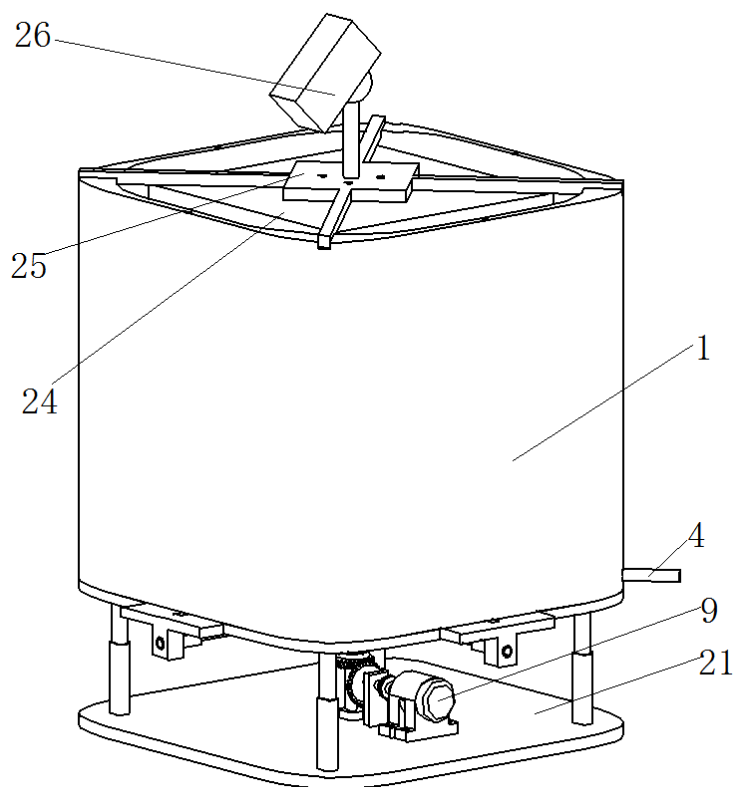


FIG. 6