ABSTRACT

POUCH PACKAGED LITHIUM-ION BATTERY WITH TOOTH-SHAPED SEALING EDGE

A pouch packaged lithium-ion battery with a tooth-shaped sealing edge, including a main body, which includes an aluminum-plastic film arranged with a jelly roll disposed therein. The jelly roll includes a cathode, an anode and a film separating the two. The cathode, the film and the anode are winded and overlaid. A cathode tab and an anode tab are respectively arranged on both sides of the jelly roll. A middle part of the aluminum-plastic film extends toward an outside of the lithium-ion battery to form a sealing edge. The cathode tab and the anode tab extend horizontally and penetrate the sealing edge. A joint between the cathode/anode and the sealing edge is covered with a tab sealant. The sealing edge, the cathode tab and the anode tab are bent to attach to a surface of the main body. The surface of the sealing edge is arranged with tooth-shaped grooves.

Figure 1