

ABSTRACT

An explosion-proof non-aqueous electrolyte battery is provided which has a current cutoff device for cutting off electrical connection within the battery with safety and certainty in the event of overcharge while remaining inoperable in normal use or in storage at an elevated temperature. A pair of an upper vent plate 1 and a lower vent plate 2 mechanically and electrically coupled with each other is provided on the sealing part of the battery where the mechanical coupling of the pair of the upper vent plate 1 and the lower vent plate 2 is so configured as to rupture and cut off an electric current in the event the internal pressure of the battery case increases beyond a predetermined value, and the rupture pressure at which the mechanical coupling between the pair of upper vent plate 1 and the lower vent plate 2 is broken has been set to decrease as the spatial volume occupancy ratio of the battery increases.