

ABSTRACT OF THE DISCLOSURE

ALKALINE BATTERY

Vibration and shock resistance of alkaline batteries provided with a gel type negative electrode comprising a zinc alloy powder, a gelling agent and an alkaline electrolyte can be improved by using the following three gelling agents in combination in the gel type negative electrode, namely, a crosslinked polyacrylate type water-absorbing polymer having a dispersion viscosity at 25°C of at least 15,000 cps as a 0.5 wt% aqueous solution and having a particle size of mainly 100-900 microns, a crosslinked and branched type polyacrylic acid or a salt thereof having a dispersion viscosity at 25°C of at least 15,000 cps as a 0.5 wt% aqueous solution and having a particle size of mainly 100 microns or smaller, and a granular crosslinked and branched type polyacrylic acid or a salt thereof having a dispersion viscosity at 25°C of at least 15,000 cps as a 0.5 wt% aqueous solution and having a particle size of mainly 100-900 microns. The vibration and shock resistance can further be improved by further adding to the gel type negative electrode at least one of oxides, hydroxides and sulfides of a metal selected from indium, tin and bismuth.