

Abstract

A battery sheath made of formed and cold-rolled sheet metal as well as a process for manufacturing the battery sheath are proposed. In the process, cold-rolled strip stock is provided on at least one side with a coating of Ni, Co, Fe, Sn, In, Pd, Bi or their alloys in an electroplating bath, e.g., a Watts-type bath. As an additional component, the electroplating bath contains electrically conductive particles such as carbon, carbon black, graphite, TiS_2 , TaS_2 , MoSi_2 . These particles are deposited on the base material during electroplating together with Ni, Co, Fe, Sn, In, Pd, Bi or their alloys. The sheet metal side with, for example, the carbon-containing electroplated coating faces preferably inwardly when the sheet is formed into a battery sheath. Batteries with battery sheaths produced in this manner exhibit reduced increase in internal resistance, even with prolonged storage, as compared to known batteries.

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