

Abstract

Gastight nickel/hydride storage battery of the round-cell type

In a gastight Ni/hydride storage battery of the round-cell type of the AA overall size and having $K_{\max} = 2$ Ah, both electrode polarities are based on mass electrodes in the form of powder compacts, the positive $\text{Ni}(\text{OH})_2$ electrode comprising a stack of annular pressed bodies (2) and the negative electrode a stack of cylindrical pressed bodies (3) composed of a hydrogen-storage alloy, and both stacks, together with an intervening separator (5), forming a coaxial arrangement which completely fills the cross section of the casing can (1). The cylindrical pressed bodies have bores (4) into which the collector nail (7) connected to the lid (6) is pressed during closure of the cell. The production of the cell is possible using standard components and standard methods from the alkali/manganese primary cell production (R6 type) and is consequently very inexpensive.

Published with Figure 3