ABSTRACT

A HYDROGEN ABSORBING ALLOY FOR BATTERY APPLICATION

A hydrogen absorbing alloy is disclosed for use as the negative electrode in alkaline batteries. The general formula of the alloy is AB_xM_y, wherein A is selected from the rare earth element La or a mischmetal thereof; B is selected from the group consisting of Ni, Fe, Mn, Cr, Cu, Co, and mixtures thereof; M is selected from the group consisting of Al, In, Zn, Sn, Ga, Si, Ge, Bi, and mixtures thereof; $4.5 \leqq x \leqq 5.5$; and $0.3 < y \leqq 0.6$. This alloy has a longer cycle life, along with larger capacity and better reactivity.

Flg. 1