

ABSTRACT

Negative electrode for gastight alkaline storage batteries which has a carbon black-containing gas-consumption layer

5           The carbon black contained in the gas-consuming layer on the surface of a negative electrode originates from a mixture of an aqueous carbon black dispersion and an aqueous PTFE dispersion, both of which contain a surfactant of the same type in each case (cationic,  
10 anionic or nonionic) for the purpose of stabilization. The stabilized particles in the final gas-consuming dispersion are formed by coating PTFE particles (1) with smaller carbon particles (2) with an interlayer or envelope of surfactant films (4), pores and cracks (3)  
15 increasing the effective catalyst surface area for oxygen gas. Additions of polyacrylic acid esters are suitable for adjusting the viscosity of the dispersion. The dispersion is applied to the electrode by immersion or spraying.

20   Published with Figure 1.

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