

ABSTRACT

METHOD OF MANUFACTURING LEAD-ACID BATTERY ELECTRODE

Provided herein is a method of manufacturing a lead-acid battery electrode that prevents an electrode surface from being cracked or broken. The method includes the steps of filling an active material, pressing, and aging and drying. In the step of filling an active material, a paste-like active material is filled onto a grid substrate made of a lead alloy to fabricate an active material-filled electrode. In the step of pressing, the active material-filled electrode is pressed. In the step of aging and drying, the active material-filled electrode which has been pressed in the step of pressing is aged and dried to obtain an electrode that has not been chemically converted. The method further includes the steps of treating with sulfuric acid and preliminarily drying. In the step of treating with sulfuric acid, a surface of the active material-filled electrode is treated with sulfuric acid that is adjusted to a temperature higher than an ordinary temperature. In the step of preliminarily drying, the active material-filled electrode which has been treated with the sulfuric acid in the step of treating with sulfuric acid is preliminarily dried before the active material-filled electrode is aged in the step of aging and drying.

Fig. 1