

5
/

ABSTRACT OF THE DISCLOSURE

The present invention proposes a sealed battery including a safety valve made of a metal plate which can be deformed by the increase of the inner pressure of the battery, and current cutting-off means which is actuated by the deformation of the safety valve, wherein the safety valve has a safety valve projection provided at its center to project toward an electric power generating element of the battery, a disk having a central aperture in which the safety valve projection is inserted and gas apertures through which gas is passed is fixed between the safety valve and the electric power generating element, a thin metal plate to which one of the leads of the electric power generating element is connected is attached to the element side of the disk to close the central aperture, and the safety valve projection is welded to the thin metal plate through the central aperture.

The present invention proposes another sealed battery including a safety valve made of a metal plate which can be deformed by the increase of the inner pressure of the battery, and current cutting-off means which is actuated by the deformation of the safety valve, wherein the safety valve has a safety valve projection provided at its center to project toward an electric power generating element of the battery, a disk made of metal is fixed between the safety valve and the electric power generating element, the safety valve projection is welded to the center of the disk, the disk also has gas apertures provided at other positions than the center, and one



of the leads of the electric power generating element is electrically connected to the element side of the disk.

According to this invention, when the inner pressure of the battery is increased, the current can be surely cut off, and the inner pressure can be surely reduced without causing a short-circuit by the lead so that the battery can be prevented from destructive explosion.

(Fig. 6)