

[Document Title] ABSTRACT

[Object] The object of the present invention is to provide a closed battery capable of rapidly releasing the internal pressure thereof and at the same time disconnecting the current to effectively prevent itself from temperature rising and exploding so that in such a completely closed battery it may assure the safety and reliability thereof, when the internal pressure is elevated due to short circuit, overcharge, reverse charge, or the like.

[Means of Solution] A valve element 5 is provided with a slit 3 between the circumference thereof and a metal substrate 1. When the internal pressure of a battery is elevated, the valve element 5 is smoothly raised up together with a metal foil 2 from a bending fulcrum portion 4 to thereby cut a lead wire 6 or permit a braze portion 8 to detach from the lead wire 6, thus disconnecting the current reliably. Then, the metal foil which usually closes the slit formed around the circumference of the valve element 5 is allowed to burst stably and accurately at a prescribed pressure to thereby form a valve opening portion 7 so that the internal gas of the battery can be discharged. Thus, the battery can previously be prevented from exploding.

[Elected Drawing]

Fig. 2

This Sheet Has Been Replaced



THIS SHEET HAS BEEN
REPLACED