

CLOSED BATTERY

[Document Title] ABSTRACT

[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 explosion so that it may assure the safety and reliability thereof, when, the internal pressure is elevated due to short circuit, overcharge, reverse charge, or the like in such a completely closed battery.

[Means of Solution] A closed battery of the present invention is provided with a closing member serving as a valve chip, which is composed of a metal substrate 1 in which a valve element 5 is provided and defined by a break line 3, and a metal foil 2 adhered to the inner surface of the metal substrate 1. When the internal pressure of the battery is elevated, the valve element 5 is raised up from the metal substrate from the bending fulcrum portion 4 so as to permit a opening valve 7 to be formed, so that the metal foil 2 is allowed to burst stably and accurately at a prescribed pressure, especially at a low pressure, so as to discharge the internal gas of the battery. Besides, with a lead wire 6 attached to the metal foil 2, the burst can break the current so that the battery can previously be prevented from exploding.

[Elected Drawing]

Fig. 1



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