

Title (en)  
FUSE SWITCH FOR A VEHICLE BATTERY

Title (de)  
SICHERUNGSSCHALTER FÜR EINE FAHRZEUGBATTERIE

Title (fr)  
INTERRUPTEUR À FUSIBLE POUR UNE BATTERIE DE VÉHICULE

Publication  
**EP 2507812 A1 20121010 (DE)**

Application  
**EP 10779560 A 20101123**

Priority  
• DE 102009056865 A 20091203  
• EP 2010067977 W 20101123

Abstract (en)  
[origin: WO2011067132A1] In the case of a crash of a motor vehicle, it must be ensured that electrical loads are cut off from voltage, because otherwise a short-circuit current can flow, for example via crushed cables, and a cable fire can result. In order to interrupt a power supply, loads can be coupled to a vehicle battery by means of a safety switch. When such a safety switch is opened, however, there is a risk that an electric arc can form between the contacts of the safety switch, and a current can thereby continue to flow, even when the safety switch is opened. The aim of the present invention is therefore to provide a safety switch, by means of which a vehicle battery can be reliably cut off from a vehicle electrical network. According to the invention, to this end, a pyrotechnic safety switch (10) is provided, wherein a propellant charge can be ignited in a gas chamber (36) spatially separated from an isolation distance (42) by means of which the interruption of the power supply is to be brought about. The invention is in particular suitable for uncoupling a high-voltage battery from a vehicle electrical network of a motor vehicle.

IPC 8 full level  
**H01H 39/00** (2006.01)

CPC (source: EP)  
**H01H 39/006** (2013.01); **H01H 2039/008** (2013.01)

Citation (search report)  
See references of WO 2011067132A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**DE 102009056865 A1 20110609**; EP 2507812 A1 20121010; EP 2507812 B1 20150225; EP 2507812 B8 20150422; ES 2536549 T3 20150526; WO 2011067132 A1 20110609

DOCDB simple family (application)  
**DE 102009056865 A 20091203**; EP 10779560 A 20101123; EP 2010067977 W 20101123; ES 10779560 T 20101123