Title (en)

DEVICE FOR THE SPARKLESS DISCONNECTION OF A SOLENOID

Title (de)

VORRICHTUNG ZUM FUNKENFREIEN AUSSTECKEN EINER MAGNETSPULE

Title (fr)

DISPOSITIF POUR DÉBRANCHER SANS ÉTINCELLES UNE BOBINE ÉLECTROMAGNÉTIQUE

Publication

EP 2208261 A1 20100721 (DE)

Application

EP 07857118 A 20071222

Priority

EP 2007011413 W 20071222

Abstract (en)

[origin: WO2009080088A1] The invention relates to a device for the sparkless disconnection of a solenoid that can be connected to two direct current voltage contacts (19, 20) by means of two electric plug-in elements (12, 13). The first and the second of said plug-in elements (12, 13), when plugged in, are electrically connected to the first or second direct current voltage contacts (19, 20) by means of a first and a second spring arrangement (21, 24), at least one diode (25) with a pole in the blocking direction interconnecting the two spring arrangements (21, 24). At least the first spring arrangement (21) consists of two sub-areas (22, 23), the first sub-area (22) of which is continuously connected to the diode (25) and lies elastically against the first plug-in element (12) when said element is plugged in and the second sub-area (23) of which electrically connects said plug-in element (12) to the first direct current voltage contact (19). The second sub-area (23) is designed to separate said electrical connection during disconnection before the first sub-area (22) is released from its position against the first plug-in element and before the second spring arrangement (24) is released from its position against the second plug-in element (13).

IPC 8 full level

H01R 13/66 (2006.01); **H01R 13/703** (2006.01)

CPC (source: EP)

H01R 13/6641 (2013.01); **H01R 13/7036** (2013.01); H01R 13/665 (2013.01)

Citation (search report)

See references of WO 2009080088A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

WO 2009080088 A1 20090702; EP 2208261 A1 20100721; EP 2208261 B1 20130109

DOCDB simple family (application)

EP 2007011413 W 20071222; EP 07857118 A 20071222