

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

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Application
EP 07857118 A 20071222

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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).

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