

Title (en)
Under-voltage release device

Title (de)
Unterspannungs-Auslösevorrichtung

Title (fr)
Dispositif de déclenchement pour manque de tension

Publication
EP 0458190 B1 19960221 (DE)

Application
EP 91107923 A 19910516

Priority
CH 177490 A 19900523

Abstract (en)
[origin: EP0458190A1] The under-voltage release device has an electromagnet with a magnet winding (3), a core (10) and an armature (20) and a release device (50) which is capable of a release movement. In the condition when it is ready to release, the armature is located in an attracted position on the core and in this case is spring-loaded in the release direction but is prevented from being released from the core by the magnetic attraction force generated by the electromagnet. In this condition, the release device is also spring-loaded, but the release movement is prevented by the attracted armature. The electromagnet is a DC magnet. A rectifier is provided in order to rectify the current flowing through the magnet winding. In addition, mechanical aids are provided in order to position the armature in the attracted position. The release device is latched in a self-releasing manner in the condition where it is ready to release. The latch is released when the armature is released. <IMAGE>

IPC 1-7
H01H 83/12

IPC 8 full level
H01H 83/12 (2006.01)

CPC (source: EP US)
H01H 83/12 (2013.01 - EP US); **H01H 2071/0242** (2013.01 - EP US)

Cited by
US5834996A; US10354822B2; WO2015059191A1; US10818450B2

Designated contracting state (EPC)
AT BE CH DE ES FR GB IT LI NL SE

DOCDB simple family (publication)
EP 0458190 A1 19911127; EP 0458190 B1 19960221; AT E134458 T1 19960315; AU 647787 B2 19940331; AU 7718191 A 19911128; CH 680174 A5 19920630; DE 59107416 D1 19960328; US 5184101 A 19930202

DOCDB simple family (application)
EP 91107923 A 19910516; AT 91107923 T 19910516; AU 7718191 A 19910522; CH 177490 A 19900523; DE 59107416 T 19910516; US 70433691 A 19910523