Title (en)

MAGNET SYSTEM FOR RAPID DISCONNECTION

Publication

EP 0278064 B1 19911023 (DE)

Application

EP 87116359 A 19871106

Priority

DE 3643510 A 19861219

Abstract (en)

[origin: EP0278064A1] A magnet system for rapid disconnection is intended to be designed such that the long-term stability and operational reliability are improved with respect to known magnet systems. Since the problems of magnet systems are predominantly mechanical, the main feature of the improvement applies to the moving parts of the system. Essentially, the solution consists of designing the armature retention (7) of a magnet system as a leaf spring (71) with a box- shaped extension (72) which can be plugged on to the free pole piece (3), the leaf spring being bent and connected to the end of the hinged armature (4) projecting beyond the free pole piece, and by the tension spring (8) being suspended with its eye (81) in a hole (41) of the hinged armature, in the immediate vicinity of the connecting point (73) of the leaf spring and the hinged armature, and by the free end of the tension spring being held by a lengthened part (51) of the coil body (5), which part is firmly connected to the base plate (13) by means of pin-shaped projections (52). The area of use relates to circuits in which rapid disconnection is required. These are primarily apparatuses such as multiple instruments which must be protected against excess currents and voltages. They also include circuit breakers which are intended to protect downstream apparatuses against excess currents and voltages. <IMAGE>

IPC 1-7

H01H 50/28; H01H 71/24

IPC 8 full level

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CPC (source: EP)

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Cited by

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DOCDB simple family (application)

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