

Title (en)
Thermal and magnetic tripping mechanism

Title (de)
Thermischer und elektromagnetischer Auslöser

Title (fr)
Déclencheur magnétothermique

Publication
EP 0603663 B1 19961106 (DE)

Application
EP 93119852 A 19931209

Priority
DE 4242516 A 19921216

Abstract (en)
[origin: EP0603663A1] A thermal and electromagnetic tripping mechanism has a magnet core (25) and a magnet armature (26), a coil (23) and a magnet yoke (29) surrounding the coil. A supporting member (30, 31) for a bimetallic element (40) is arranged at the end face in front of the magnet yoke (29) and joined thereto. The bimetallic element heats up in the event of an overcurrent (excess current) and is moved in the process from a first stable position into a second stable position and back, thereby actuating the magnet armature (26) to release a latching mechanism. The bimetallic element (40) is fixed between two arms (30, 31) which form the supporting member. It is expedient to construct the bimetallic element as a bimetallic snap-action strip (40). The arms (30, 31; 46, 47; 52, 53), which consist of a material which is an effective thermal conductor, are mounted on the magnet yoke (29) so as to conduct heat effectively. <IMAGE>

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H01H 71/40; H01H 71/16

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H01H 71/16 (2006.01); **H01H 71/40** (2006.01)

CPC (source: EP)
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