

Title (en)
OVERCURRENT CIRCUIT BREAKER

Publication
EP 0090176 B1 19880518 (DE)

Application
EP 83101806 A 19830224

Priority
DE 3211246 A 19820326

Abstract (en)
[origin: US4516098A] An overcurrent protection switch having one or more thermal and/or magnetic trips (14,21) and a mechanical switch latch which essentially consists of an actuating element and a latching lever (6) which acts in conjunction with the former and which with its first end acts upon a plunger (8) which is guided in the longitudinal direction of the housing (69) under an initial spring tension and which drives the switching contacts, and which latching lever rests with its other end in the latching position under an initial spring tension on a support area (13) of a trip lever (9), wherein, for improving the switching-off characteristics and the handling characteristics of the switch, the trip lever (9) is constructed as an essentially L-shaped angle lever which in the area of its angle is rotationally supported on a shaft (75) which is stationary with respect to the housing, which lever is subjected to an initial spring tension with respect to the thermal and/or magnetic trip (14,21) and which engages with the swivel end (27) of the first L leg through a longitudinal groove in the plunger 8 and which is provided at the swivel end of the second L Leg, which runs essentially parallel to the plunger (8) and projects from the rotational point in the direction of the actuating element (toggle 2), with the support area (13).

IPC 1-7
H01H 73/50

IPC 8 full level
H01H 71/10 (2006.01); **H01H 71/24** (2006.01); **H01H 71/54** (2006.01); **H01H 73/02** (2006.01); **H01H 73/48** (2006.01); **H01H 73/50** (2006.01)

CPC (source: EP US)
H01H 71/1027 (2013.01 - EP US); **H01H 71/2409** (2013.01 - EP US); **H01H 71/2472** (2013.01 - EP US); **H01H 2071/7481** (2013.01 - EP US)

Cited by
FR2653932A1; GB2176056A; EP0320412A1; FR2624649A1; US4884047A; WO2013075726A1

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