Title (en)
SWITCHING MECHANISM FOR A LINE PROTECTIVE SWITCH

Publication
EP 0473619 B1 19930818 (DE)

Application
EP 90906912 A 19900518

Priority
DE 3917326 A 19890527

Abstract (en)
[origin: WO9015431A1] Switching mechanism for a line protective switch. Line protective switches have a contact breaking point which is usually interlocked via a toggle mechanism. If too heavy a current flows, the interlock is released by a thermal and a magnetic trigger and the current flow is interrupted. In the switching mechanism the release movements of the two triggers are to be transferred to the interlock completely independently by the simplest possible means. To this end a triggering lever (14) actuated by the magnetic trigger (9) and a release lever (12) actuated by the thermal trigger (8) are each located independently and separately so as to pivot on either side of a contact lever (3). The vertically parallel lever arms (14a, 12a) of the two first-mentioned levers (12, 14) engage beneath a release point which is formed by the angled end (2a) of a ratchet (2) and a projecting lug (3a) formed directly on the contact lever (3). The switching mechanism can be tensioned by moving a manual operating toggle (1) to the top dead centre position of the ratchet (2), whereupon the contact lever (3) is supported on the fixed contact (5) and at the release position (2a, 3a). In the event of an overcurrent, the rigidly secured, non adjustable trigger (8/8a) bends and moves the release lever (12) clockwise, while in the event of a short circuit the releasing movement of the magnetic trigger (9) is transferred anticlockwise to the triggering lever (14) so that the interlock position can be released mutually independently. The switching mechanism is especially suitable for narrow line protectives switches.

IPC 1-7
H01H 71/52; H01H 71/74

IPC 8 full level
H01H 71/52 (2006.01); **H01H 71/74** (2006.01)

CPC (source: EP)
H01H 71/526 (2013.01); **H01H 71/7418** (2013.01); H01H 2071/7454 (2013.01)

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

DOCDB simple family (publication)
WO 9015431 A1 19901213; DE 3917326 A1 19901129; DE 59002402 D1 19930923; EP 0473619 A1 19920311; EP 0473619 B1 19930818; ES 2044582 T3 19940101

DOCDB simple family (application)
DE 9000374 W 19900518; DE 3917326 A 19890527; DE 59002402 T 19900518; EP 90906912 A 19900518; ES 90906912 T 19900518