

Title (en)
LINE SAFETY SWITCH

Title (de)
LEITUNGSSCHUTZSCHALTER

Title (fr)
DISJONCTEUR DE PROTECTION DE LIGNE

Publication
EP 0680661 B1 19970312 (DE)

Application
EP 94900625 A 19931206

Priority
• AT 9300184 W 19931206
• AT 9093 A 19930121

Abstract (en)
[origin: WO9417545A1] In a line safety switch with a break section (6, 41) equipped with a bimetallic release device and a magnetic release device (4), a switch latch (1) with a switching toggle (15) is associated to a swivelling switching bridge (2). The switching bridge (2) may be swivelled by means of the switching toggle (15) out of an OFF position apart from the fixed contacts (6) into an ON position in which it lies on the fixed contacts (6). The switching toggle (15) is coupled to the movable switching bridge (31) by an articulated joint which consists of a hoop (30) and a bracket (31). The leg of the hoop (30) linked to the bracket (31) is guided in a slotted guiding part (50, 51) whereas the other leg of the hoop (39) is joined to the switching toggle (15) in an articulated manner. The guiding slot (50) is provided in a ratchet (51) swivelling mounted in the switch latch (1). The ratchet (51) can snap into a ratchet support (50) with its end (51') opposite to the swivelling point (24). The ratchet support (60) which is associated to the bimetallic release device (5) and to the magnetic release device (4), is swivelling mounted (23) in the switch latch (1). The guiding slot of the guiding part (50) extends over part of its length in a substantially parallel direction to the sliding direction of the bracket (31). The leg of the hoop (30) received in the guiding slotted part (50, 51) is received in the ON position in a part (50') of the slot (50) which extends away from the switching toggle (15) and the switching toggle (15) takes together with the hoop (30) an over dead centre position.

IPC 1-7
H01H 71/52

IPC 8 full level
H01H 71/52 (2006.01)

IPC 8 main group level
H01H 73/00 (2006.01)

CPC (source: EP)
H01H 1/2066 (2013.01); **H01H 71/526** (2013.01)

Cited by
DE102014110757A1; US9953777B2; EP3767660A1

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DOCDB simple family (publication)
WO 9417545 A1 19940804; AT 404769 B 19990225; AT A9093 A 19980615; AT E150208 T1 19970315; AU 5370494 A 19940815; AU 672843 B2 19961017; DE 59305821 D1 19970417; DK 0680661 T3 19970401; EP 0680661 A1 19951108; EP 0680661 B1 19970312; ES 2100663 T3 19970616; GR 3023492 T3 19970829; HR P940032 A2 19960831; HR P940032 B1 19990228; NO 307068 B1 20000131; NO 952722 D0 19950707; NO 952722 L 19950707; SI 9400025 A 19940930; TR 28256 A 19960328

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