

Title (en)
CIRCUIT-BREAKER PROTECTING AGAINST OVERCURRENTS

Publication
EP 0050187 A3 19830209 (DE)

Application
EP 81104965 A 19810626

Priority
CH 776680 A 19801017

Abstract (en)
[origin: US4388507A] In the cut-on position of the protective switch a movable contact element engages with a stationary contact element and at the same time is exposed to the action of a force displacing such movable contact element into a cut-off position. The movable contact element is arrestable in the cut-on position by means of a locking device which can be activated by an excess current. In order to reduce the number of movable parts to a minimum as well as to avoid parts which generate heat due to appreciable thermal losses, such locking device is provided with a substantially U-shaped locking element formed of a soft magnetic material. This locking element surrounds the movable contact element with play or clearance and is displaceably mounted transversely with respect to the flow of current in such movable contact element. At least one free leg end of the locking element is provided with a stop which in the cut-on position cooperates with a stop nose which is movable together with the movable contact element. The protective switch is suitable for installation in medium voltage and high-voltage switching installations.

IPC 1-7
H01H 1/52; H01H 9/20; H01H 33/91; H01H 71/00; H01H 71/24

IPC 8 full level
H01H 33/91 (2006.01); **H01H 71/24** (2006.01)

CPC (source: EP US)
H01H 33/91 (2013.01 - EP US); **H01H 71/24** (2013.01 - EP US); **H01H 71/2454** (2013.01 - EP US)

Citation (search report)
• [AD] US 2757261 A 19560731 - LINGAL HARRY J, et al
• [A] DE 2940706 A1 19800424 - WESTINGHOUSE ELECTRIC CORP
• [A] DE 2503910 B2 19800320

Cited by
FR2756968A1; GB2206238A; FR2616008A1; GB2206238B

Designated contracting state (EPC)
AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)
EP 0050187 A2 19820428; **EP 0050187 A3 19830209**; **EP 0050187 B1 19850220**; DE 3169025 D1 19850328; US 4388507 A 19830614

DOCDB simple family (application)
EP 81104965 A 19810626; DE 3169025 T 19810626; US 30615381 A 19810928