

Title (en)
CIRCUIT BREAKER WITH AN INDEPENDANT LOCKING DEVICE OF THE MOVABLE CONTACT

Publication
EP 0466287 A3 19930421 (DE)

Application
EP 91250158 A 19910613

Priority
DE 4022078 A 19900710

Abstract (en)
[origin: EP0466287A2] A circuit breaker has a trip device for the automatic separation of contacts (1, 6) and a locking device, which is independent of the trip device, for separating the contacts (1, 6) in the event of an erroneously high current. In addition to a trip shaft (31), which is required for the trip device, and a locking lever (27) interacting therewith, the independent locking device has an elongated hole (40) and a leaf spring (41) against which the trip shaft (31) can be displaced in the elongated hole (40). The trip shaft (31) is moved in the elongated hole (40) under the influence of an electrodynamic ejection force between the contacts (1, 6). At the same time, the locking surfaces (30, 31) slide off from one another. The locking device described is suitable for low-voltage circuit breakers of single-pin or multi-pin design which operate to limit the current. <IMAGE>

IPC 1-7
H01H 71/10

IPC 8 full level
H01H 73/04 (2006.01); **H01H 71/10** (2006.01); **H01H 77/10** (2006.01); **H01H 71/50** (2006.01)

CPC (source: EP)
H01H 77/10 (2013.01); **H01H 71/505** (2013.01); **H01H 2071/507** (2013.01)

Citation (search report)
• [AD] EP 0197739 A2 19861015 - MITSUBISHI ELECTRIC CORP [JP]
• [A] DE 1167957 C
• [A] EP 0072972 A2 19830302 - LICENTIA GMBH [DE]

Cited by
DE10344318B3; DE10164517A1; DE10164517B4; EP0789380A1; FR2744563A1; US5731560A; US5933303A; CN110942963A; WO2005029526A1; WO9700531A1

Designated contracting state (EPC)
DE FR SE

DOCDB simple family (publication)
EP 0466287 A2 19920115; EP 0466287 A3 19930421; EP 0466287 B1 19950118; DE 4022078 A1 19920116; DE 59104298 D1 19950302; JP H04351824 A 19921207

DOCDB simple family (application)
EP 91250158 A 19910613; DE 4022078 A 19900710; DE 59104298 T 19910613; JP 19091691 A 19910705