

Title (en)

CIRCUIT BREAKER HAVING DOUBLE POLE INTERRUPTION

Title (de)

LEITUNGSSCHUTZSCHALTER MIT ZWEIPOLIGER UNTERBRECHUNG

Title (fr)

DISJONCTEUR AVEC INTERRUPTION BIPOLAIRE

Publication

EP 1488438 B1 20070124 (DE)

Application

EP 03709797 A 20030318

Priority

- DE 10211905 A 20020318
- EP 0302817 W 20030318

Abstract (en)

[origin: WO03079389A1] The invention relates to a circuit breaker having double pole interruption, comprising a first and second contact device, each of which having a stationary contact (26) and a moving contact (23), whereby both moving contacts (23) are mounted on a supporting body (11) in a manner that enables them to pivot about a common pivot axis (24) while each being pretensioned in their closed position by a contact spring (28). The circuit breaker also comprises a switching lever (21), which is pivotally mounted on the supporting body (11) and is pretensioned by the contact springs (28) of the moving contacts (23) in an interrupt position, in which the switching lever (21) holds the moving contacts (23) in their breaking position. The circuit breaker additionally has a switch actuating element (31) that can be coupled to the switching lever (21) via a coupling device (32, 20), whereby the switch actuating element (31) enables the switching lever (21) to pivot out of its interrupt position and into an enable position against the force of the contact springs (28) and to be held in this enable position as long as the switch actuating element (31) is coupled to the switching lever (21). The coupling device has a coupling element (32), which is coupled to the switch actuating element, and a detent (20), which is pivotally mounted on the switching lever (21) and holds the coupling element (32) in contact therewith or releases it depending on the position relative to the switching lever. Finally, the circuit breaker comprises a trip element (16), which acts upon the detent (20) in the event of a fault whereby causing the detent to release the coupling element (32).

IPC 8 full level

H01H 71/52 (2006.01)

CPC (source: EP)

H01H 71/526 (2013.01)

Citation (examination)

- EP 0691665 A1 19960110 - ABB PATENT GMBH [DE]
- EP 1329923 A2 20030723 - PRODEX TECHNOLOGIE GMBH [DE]

Cited by

WO2016108761A1; WO2011112159A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

Designated extension state (EPC)

AL LT LV MK

DOCDB simple family (publication)

WO 03079389 A1 20030925; AT E352857 T1 20070215; AU 2003214137 A1 20030929; AU 2003214137 B2 20060316; AU 2003214137 B9 20060928; CN 100356494 C 20071219; CN 1653573 A 20050810; DE 10211905 A1 20040415; DE 50306378 D1 20070315; EP 1488438 A1 20041222; EP 1488438 B1 20070124; ES 2279099 T3 20070816

DOCDB simple family (application)

EP 0302817 W 20030318; AT 03709797 T 20030318; AU 2003214137 A 20030318; CN 03811361 A 20030318; DE 10211905 A 20020318; DE 50306378 T 20030318; EP 03709797 A 20030318; ES 03709797 T 20030318