Title (en)

A compact circuit breaker mechanism.

Title (de)

Kompakter Schutzschaltermechanismus

Title (fr)

Mécanisme de coupe-circuit compact

Publication

EP 2172957 A3 20140806 (EN)

Application

EP 09354039 A 20091001

Priority

IN 2437CH2008 A 20081003

Abstract (en)

[origin: EP2172957A2] The present invention describes a compact operating mechanism with cams for a switching device with, preferably, a tripolar insulating rod. The said mechanism is so designed that the force on and the speed of the said tripolar insulating rod is continually increasing with time till the end of the operation. The said mechanism consists of cams mounted on a shaft which is rotated under the influence of springs which have crossed their dead points. This shaft with cams then moves against rollers mounted on the cranks of a slider and crank arrangement of links, where the function of the slider is being served by the tripolar insulating rod. All the operations after the closing springs have crossed their dead points are high speed in nature. A latching arrangement is used to keep the mechanism in closed position till opening.

IPC 8 full level

H01H 3/30 (2006.01); H01H 3/42 (2006.01); H01H 3/46 (2006.01)

CPC (source: EP)

H01H 3/30 (2013.01); H01H 3/3005 (2013.01); H01H 3/3015 (2013.01); H01H 3/42 (2013.01); H01H 3/46 (2013.01)

Citation (search report)

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Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

EP 2172957 A2 20100407; **EP 2172957 A3 20140806**; **EP 2172957 B1 20151125**; CN 101714483 A 20100526; CN 101714483 B 20140618

DOCDB simple family (application)

EP 09354039 A 20091001; CN 200910178277 A 20091009