Title (en)

MULTIPOLAR CURRENT-LIMITING CIRCUIT BREAKER

Publication

EP 0006637 B1 19811014 (DE)

Application

EP 79102226 A 19790702

Priority

JP 8159978 A 19780705

Abstract (en)

[origin: US4278958A] A circuit breaker having stationary contactors provided for all of the poles thereof. Movable contactors are provided for all of the poles in correspondence to the stationary contactors. Stationary contacts are provided on the end portions of stationary contactors and movable contacts are disposed on the end portions of the movable contactors. The movable contactors are movable from the stationary contactors by electromagnetic force to open respective circuits before the circuit breaker is opened by an overcurrent tripping device when large current such as short-circuit current flows. Holders adapted to hold the movable contactors of all of the poles are mounted on a common rotatable insulating rod, one of the holders being provided with a latch which is turnable around a rod provided on the holder. A slot is normally engaged with the latch, and when disengaged from the latch, a rod can be turned by the holder. A spring operates to engage the latch with the rod until an electromagnetic moment acting on the latch generated in any of the poles or the sum of electromagnetic forces generated in all of the poles reaches a predetermined value. When a predetermined value is exceeded, the movable contactors of all of the poles are simultaneously moved from the stationary contactors to open the respective circuits with the aid of the insulating rod and the holders.

IPC 1-7

H01H 77/10; H01H 71/43

IPC 8 full level

H01H 71/43 (2006.01); **H01H 77/10** (2006.01); H01H 71/10 (2006.01); H01H 71/52 (2006.01)

CPC (source: EP US)

H01H 77/101 (2013.01 - EP US); H01H 71/1009 (2013.01 - EP US); H01H 71/525 (2013.01 - EP US)

Cited by

EP0072972A3; EP1376640A3; DE3411275A1; EP2346062A3; US7102471B2

Designated contracting state (EPC)

AT BE CH FR GB IT NL

DOCDB simple family (publication)

EP 0006637 A1 19800109; **EP 0006637 B1 19811014**; AT E309 T1 19811015; DE 2926166 A1 19800117; DE 2926166 C2 19880601; JP S559346 A 19800123; JP S5942935 B2 19841018; PH 16637 A 19831205; US 4278958 A 19810714

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EP 79102226 A 19790702; AT 79102226 T 19790702; DE 2926166 A 19790628; JP 8159978 A 19780705; PH 22742 A 19790705; US 5474479 A 19790705