

Title (en)

Switch latch for a circuit breaker and circuit breakers incorporating it.

Title (de)

Schalt Schloss für Schutzschalter und Schutzschalter, mit diesem integriert.

Title (fr)

Mécanisme de serrure pour disjoncteur et disjoncteurs l'incorporant.

Publication

EP 0570647 A1 19931124 (FR)

Application

EP 92440055 A 19920513

Priority

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Abstract (en)

Circuit breaker latch mechanism, of the type comprising an operating member (5) equipped with an actuating knob (5a) and normally pushed back into the open position of the contacts by a return spring (96), a connecting rod (39), one end of which is mounted eccentrically on the operating member (5), a contact holder (41) pivoting around an axis and having a ramp (54) against which the other end (39a) of the connecting rod (39) can come to bear and buttress, at least one moving contact (17, 29) mounted on the pivot axis of the contact(s) holder (41) so as to be able to pivot slightly relative to the latter so as to exert a contact pressure on a fixed contact (20, 35) and a pawl (42) pivoted on the contact holder (41). This pawl (42) is associated with a trip means (43) capable, when it is actuated, of causing the swinging of the pawl (42) and the release of the connecting rod (39), and optionally of driving the contact holder (41) into the open position for a forced wrenching of the moving contact (17, 29). Each moving contact (17, 29) is retained angularly on the pivot axis of the contact holder (41) by an elastic member (76) having a bearing point on the said pivot axis and at least two bearing points on the moving contact (17, 29), so as to urge the latter, with respect to the said pivot axis, in the direction of the contact pressure on the fixed contact (20, 35). <IMAGE>

IPC 1-7

H01H 71/52

IPC 8 full level

H01H 71/52 (2006.01); **H01H 71/00** (2006.01)

CPC (source: EP)

H01H 71/526 (2013.01); **H01H 71/002** (2013.01)

Citation (applicant)

FR 2648615 A1 19901221 - HAGER ELECTRO [FR]

Citation (search report)

- [Y] EP 0412953 A2 19910213 - FELTEN & GUILLEAUME AG OESTER [AT]
- [Y] EP 0403329 A1 19901219 - HAGER ELECTRO [FR]
- [A] EP 0338930 A1 19891025 - HAGER ELECTRO [FR]
- [A] EP 0224396 A1 19870603 - MERLIN GERIN [FR]
- [A] FR 2605454 A1 19880422 - MERLIN GERIN [FR]

Cited by

EP0696041A1; US7132912B2; EP1191562A1; CN112103150A; EP1146534A1; CN103021748A; CN106169398A; FR2723470A1; CZ300092B6; CN115763180A; EP1191561A1; EP0661724A3; EP1615252A1; CN107749366A; EP1643530A1; ES2157161A1; EP0798756A1; FR2746957A1; CN1083611C; CZ300740B6; EP4064317A1; FR3121272A1; US10276330B2; EP2717284A1; FR2996678A1; CN103715029A; EP4040464A1; AU2022200844B2; WO03012812A1; WO9853473A1

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