

Title (en)
High-speed circuit breaker provided with a shock-proof device.

Title (de)
Schnellschalter mit einer Vorrichtung zur Stossicherung.

Title (fr)
Disjoncteur rapide équipé d'un dispositif antichoc.

Publication
EP 0037295 A1 19811007 (FR)

Application
EP 81400337 A 19810304

Priority
FR 8007285 A 19800331

Abstract (en)
1. High-speed circuit-breaker comprising a contact (10) opening operating device having a Thomson effect driving member (14, 16) for quickly moving the movable part in opening direction and a latch device (20) of the movable part in open position, having an unlatch actuating device (24, 26) with a conductive unlatch disc (24) disposed in the rest position in face and at small distance from the front face of an unlatch winding (26) so that the disc is repulsed into the unlatch position when the unlatch winding is powered, characterized in that it further comprises a shock-proof device (32, 34, 38) comprising a draw-back spring (34) cooperating with an unlatch disc (24), the drawback action therefrom on the unlatch disc in the rest position being limited by an abutment (30) so disposed as to provide a small clearance (36) between the front face of the winding (26) and the opposite disc (24).

Abstract (fr)
Un interrupteur à ouverture rapide des contacts (10) et à dispositif de verrouillage (20) à commande (24, 26) par effet Thomson est équipé d'un dispositif antichoc. Le disque (24) de la commande à effet Thomson est maintenu à l'écart de la face frontale de la bobine (26) par un ressort d'écartement (38), qui sollicite le disque (24) en appui de la tête (30) d'un pion (28) reposant sur la bobine (26) sous l'action d'un ressort de rappel (34).

IPC 1-7
H01H 71/10; **H01F 7/08**

IPC 8 full level
H01H 53/10 (2006.01); **H01F 7/08** (2006.01); **H01H 31/08** (2006.01); **H01H 33/38** (2006.01); **H01H 53/00** (2006.01); **H01H 71/10** (2006.01)

CPC (source: EP)
H01F 7/088 (2013.01); **H01H 71/1054** (2013.01)

Citation (search report)
• [AD] FR 2377087 A1 19780804 - MERLIN GERIN [FR]
• US 2399517 A 19460430 - SPITLER THEODORE M

Cited by
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EP 0037295 A1 19811007; **EP 0037295 B1 19840215**; DE 3162200 D1 19840322; FR 2479549 A1 19811002; FR 2479549 B1 19820716; JP S56152132 A 19811125; JP S6347096 B2 19880920

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EP 81400337 A 19810304; DE 3162200 T 19810304; FR 8007285 A 19800331; JP 4567181 A 19810330