

Title (en)
Circuit breaker trip device.

Title (de)
Schutzschalterauslösevorrichtung.

Title (fr)
Dispositif de déclenchement d'un disjoncteur électrique.

Publication
EP 0077229 A1 19830420 (FR)

Application
EP 82401698 A 19820920

Priority
FR 8118841 A 19811005

Abstract (en)
1. Tripping device of an electric circuit breaker having a spring and hook loaded mechanism (10) likely to be latched in tensioned position by a rollers (16, 18) loaded hooking (12), in which said hook (10) presents a hooking surface (36), cooperating in latching position with one of the rollers (16) of a pair of rollers (16, 18) of said rollers loaded hooking (12), the other roller (18) cooperating with a fixed supporting area (22) and in which a hooking spline (26) is inserted between the two rollers (16, 18) to move by bearing said rollers (16, 18) in position of hook (10) release by sliding of the spline (26), wherein said hooking is disposed to derive from the hooking force of the hook (10) on the rollers (16, 18) a sliding force of the hooking spline (26) in direction of hook (10) release to carry out a hooking (12) self-unlatching, characterized in that the hooking spline (26) cooperates in latched position of the hooking with a fixed stop (30) preventing the sliding of the hooking spline (26), and that a tripping lever (32) is likely to make the hooking spline (26) rotate in the direction to cancel the cooperation between the spline (26) and the stop (30) and to provoke a small movement at the contact points between the rollers and the spline to enhance the self-unlatching of the hooking (12), as soon as the spline leaves the stop.

Abstract (fr)
Le dispositif de déclenchement d'un disjoncteur comprend un accrochage (12) à rouleaux (16, 18) d'un crochet de déclenchement (10). Entre les rouleaux (16, 18) est insérée une languette (26), qui en position déverrouillée autorise un déplacement par roulement des rouleaux (16, 18), vers la position de libération du crochet (10) sous l'action de la force d'accrochage.

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H01H 71/50

IPC 8 full level
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CPC (source: EP)
H01H 71/505 (2013.01); **H01H 2071/506** (2013.01)

Citation (search report)
• [AD] US 2662136 A 19531208 - MASATOSHI KUWAYAMA
• [A] DE 1192295 B 19650506 - BBC BROWN BOVERI & CIE
• [A] GB 850647 A 19601005 - BRITISH THOMSON HOUSTON CO LTD

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